FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7682 IN SUPPORT OF RCRA SOIL CHARACTERIZATION

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Abstract: This final report contains the analytical results supporting the RCRA characterization of Vadose samples from core 7682 in C Farm. It also contains the results for associated field and trip blanks supporting the sampling effort.

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222-S LABORATORY

ANALYTIC FINAL AL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7682 IN SUPPORT OF RCRA SOIL CHARACTERIZATION OF THE VADOSE ZONE

1.0 INTRODUCTION

This final report presents the results for the samples taken from Waste Management Area C between August 17, 2010 and August 25, 2010. The report is a reissue of ATL-20100660 Rev.0 with changes based on the Report Comment Record received from the Vadose client (see Attachment 8). In addition the bulk density results have been moved from Attachment 1 to Attachment 7

The samples were analyzed in accordance with RPP-PLAN-40564, *Field Sampling and Analysis Plan for Sites P and L at Waste Management Area C* (FSAP); RPP-PLAN-38777, *Sampling and Analysis Plan for Phase 2 Characterization of Vadose Zone Soil in Waste Management Area C* (SAP); ATL-MP-1011, *ATL Quality Assurance Project Plan for 222-S Laboratory* (QAPP); SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*; and the additional guidance given by the client's point of contact.

Because the 222-S Laboratory facility was designed to analyze hazardous and complex tank waste samples, most SW-846 test methods performed at the 222-S Laboratory contain deviations that are listed in an appendix in the analytical procedures. All other known deviations or variances from SW-846 are documented in this narrative. The following attachments are included in this report.

Attachment 1	Data Summary Report
Attachment 2	Sample Breakdown Diagrams
Attachment 3	Holding Time Report
Attachment 4	Additional QC Results
Attachment 5	Tentatively Identified Compounds (TIC) for Organic Analyses
Attachment 6	Analytical Batch and Laboratory Sample Identification Number Index
Attachment 7	Geological Report with Bulk Density Results
Attachment 8	Characterization Change Notices (CCN) and Correspondence
Attachment 9	Receipt Paperwork
Appendix A	Analytical Report for Analysis Performed at the Waste Sampling and Characterization Facility (WSCF) - Metals Analysis

2.0 SAMPLE RECEIPT AND BREAKDOWN

2.1 SAMPLE RECEIPT

A total of eight core intervals and two surface grab samples from core hole C7682 along with nine field blanks, six trip blanks, and one equipment blank were received by the 222-S

Laboratory between August 17, 2010 and August 25, 2010. The samples were delivered in a cooler with ice or, in the case of the volatile organic soil samples, in a freezer. The temperatures of the temperature blanks were measured and recorded on the sample receipt check list and/or the chain of custody form.

The chain of custody requested that conductivity be analyzed on the soil samples. Since this analysis was not listed in the SAP or FSAP, it was not performed. The client has indicated that this analysis may be performed later after a CCN is issued to cover the change to the FSAP (see Attachment 8).

In order to facilitate shipping, the 222-S Laboratory personnel store the field blank sample containers designated for offsite laboratories in a small refrigerator in the sample receipt area, which is outside the laboratory's radiological contamination area. This refrigerator exceeded its lower temperature range, and one of the three 1-liter sample containers for polychlorinated biphenyl analysis and one of the two 1-liter sample containers for pesticides and the monobutyl and dibutyl phosphate analysis froze and cracked. This resulted in the monobutyl and dibutyl phosphate analysis not being performed for the equipment blank. The issue with the refrigerator freezing samples has been resolved.

2.2 SAMPLE BREAKDOWN

The laboratory received each core interval as a set of volatile organic analysis (VOA) samples and three liner samples when complete core recovery was obtained. The VOA samples were made from the shoe section of each core interval following SW-846 5035. The liner samples from each core interval were extruded, described, and composited by the Washington River Protection Solutions, Inc. (WRPS) geologist. The geologist's report is included in Attachment 7. Provided sufficient samples existed, the composite for each core interval was analyzed as described in the SAP and FSAP. One core interval, I002, had less than full recovery and was combined with interval I003 (see Attachment 2 and Attachment 9). The sample material recovered from I002 was used for the VOA sample liners, and shoe samples from interval I003 were used to make the composite sample.

WRPS shipped subsamples of the composites to Test America Laboratories, Inc. (TAL) in St. Louis, Missouri and Knoxville, Tennessee to be analyzed for dibutyl and monobutyl phosphate, total petroleum hydrocarbons (diesel and gasoline range), ethylene glycol, chlorinated pesticides, and polychlorinated biphenyls (Aroclors and congeners). TAL subsequently subcontracted the monobutyl and dibutyl phosphate analyses to Southwest Research Institute. The results of these analyses will be released in the final WRPS report.

3.0 ANALYTICAL RESULTS SUMMARY

The Data Summary Report (Attachment 1) presents the final analytical results for those analytes requested in the SAP and FSAP. Secondary analytes are only reported if detected. The TIC from gas chromatography-mass spectrometry (GC/MS) analysis of semivolatile organic compounds (SVOC) is presented in Attachment 5. In addition to the required isotopes, all isotopes with positive gamma energy analysis (GEA) results were reported.

The "Det Limit" column in Attachment 1 contains the method detection limit (MDL) for non-radionuclide analyses, or the minimum detectable activity (MDA) for radionuclides.

In Attachment 1, the column labeled "A#" indicates the aliquot class or the method used for sample preparation before analysis. For solid samples, the aliquot classes are defined as follows:

"A" indicates samples that were prepared by SW-846 3050B.

"E" indicates samples that were prepared by a strong acid digest.

"O" indicates samples that were extracted for organic analysis.

"S" indicates samples that were prepared by a distillation.

"W" indicates samples that were prepared by a standard water digest.

"WV" indicates samples that were prepared by a Vadose water digest.

Samples without a letter identifier in the "A#" column were analyzed directly with no separate preparation or with sample preparation performed as a part of the procedure steps.

The "Qual Flags" column in Attachment 1 contains data qualifier flags from FEAD CP-15383, *Common Requirements of the Format for Electronic Analytical Data,* that are defined as follows:

"B" for organic or radiochemistry results is used to indicate that the analyte was detected in the method or preparation blank and in the sample.

"B" for inorganic results is used to indicate that the reported result should be considered an estimate because it is below the quantitation limit. The "B" flag is applied to sample concentrations that are greater than the MDL but less than the quantitation limit.

"C" for inorganic results is used to indicate that the analyte was detected in the method or preparation blank and in the sample, and the result for the blank was greater than or equal to 20% of the reported sample result.

"J" for organic results is used to indicate that the reported result should be considered an estimate because it is below the quantitation limit. The "J" flag is applied to sample concentrations that are greater than the MDL but less than the quantitation limit.

"T" for GC/MS results is used to indicate the matrix spike (MS) recovery or matrix spike duplicate (MSD) recovery is outside control limits.

"U" for all results is used to indicate that the reported result is less than the calculated detection limit.

"N" for all but GC/MS is used to indicate that the MS recovery or MSD recovery was outside of the specified range in the QAPP or SAP.

"N" for GC/MS is used to indicate a TIC which has been named.

"M" for inorganic results is used to indicate that the relative percent difference (RPD) between the sample and the duplicate is greater than 30%.

"X" for comment on VOA, see Section 3.4.1, Batch 21533.

Manual calculations using rounded results from the Data Summary Report (Attachment 1) or result calculation forms may differ slightly from the actual results derived from the raw data.

3.1 SAMPLE DIGESTIONS

3.1.1 Radiochemistry Strong Acid Digestion

Strong acid digestions with a hot plate for the heat source were performed using a mixture of concentrated nitric and hydrochloric acids. For each digest, approximately 1 to 10 g of sample was digested depending on the analysis being performed. The digestate was then filtered and diluted to a final volume. This digestion was used for all radiochemical analyses except ^{3}H, ^{14}C, and ^{129}I. This digestion is a leach of the acid soluble species only.

3.1.2 SW-846 3050B - Acid Digestion-Heating Block

This acid digestion follows SW-846 3050B using a heating block and nitric and hydrochloric acids. An aliquot of approximately 5 g of sample was digested. All heating-block digestions were filtered and diluted to a final volume of 50 mL. In soil, this digestion is a leach of the acid soluble species only. This digestion was used for all inductively coupled plasma/mass spectrometry (ICP/MS) and inductively coupled plasma/atomic emission spectroscopy (ICP/AES) analyses except for ^{99}Tc and isotopic tin (^{117}Sn and ^{126}Sn) analyses. The digestion is modified for the ^{99}Tc analysis by using only nitric acid. This is done to eliminate the possibility of the formation a zinc-chlorine ion pair of mass 99. The laboratory believes this ion, when present, is responsible for low level false positives. A separate digestion for antimony was prepared using additional hydrochloric acid, as recommended in SW-846.

3.1.3 Water Digestion

A water digestion or leach was prepared for the anions by ion chromatography, ^{14}C, and ^{3}H analyses using approximately 0.25 to 4 g of sample diluted to 25 mL. Sonification was used, and the leachate was then filtered. In soil, this digestion is a leach of the water soluble species only.

3.1.4 Vadose Water Digestion

A 70-g sample of soil was leached using a ratio of one part water to one part soil. To maintain a one-to-one ratio, the amount of water added to the sample was adjusted based on the percent moisture of the soil. The slurries were placed on a shaker table for about 1 hour. They were then transferred to a centrifuge tube and centrifuged at 4,000 rpm for 30 minutes. The leachates were filtered using a disposable vacuum filtration system. The filtrates were transferred to a clean bottle and then analyzed for ^{99}Tc by ICP/MS analysis.

3.2 INORGANIC ANALYSES

3.2.1 Cyanide

The cyanide analysis by distillation and spectrophotometry was performed on the grab samples, liner composite samples, and the equipment blank. All analyses met the SW-846 holding time of 14 days. There was no required reporting limit in the SAP for cyanide. The target detection limit was 0.5 μg/g, which is lower than the current laboratory procedure (lachet micro-distillation) is reporting.

Batches 21785 and 21829: There were no notable quality control (QC) issues with these batches, and all QC requirements in the FSAP, SAP, and QAPP were met.

Batches 22013 and 22014: The MS for these batches exceed the ±25% at 43% and 74%. These samples were batched with samples from a separate vadose project for which the MSs were within the required range. Since the MS for the C Farm sample failed twice, it is the laboratory's opinion that there is a matrix interference. All affected sample results have been flagged with an "N". For batch 22013 the LLS was recovered outside the ±30% limit at 28% recovery. This could indicate a low bias for results near the LLS level. All sample results in this batch were below the MDL.

3.2.2 Sulfide

Sulfide analysis by distillation and ion selective electrode was performed on the grab samples, liner composite samples, and the equipment blank. All analyses met the SW-846 holding time of 7 days. There was no required reporting limit in the SAP for sulfide. The target detection limit was 5 μg/g. All solid sample results had adjusted MDLs of approximately 7 μg/g. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and QAPP were met.

3.2.3 pH Analysis

The pH analysis was performed on the grab samples, liner composite samples, and the equipment blank. These analyses met all QC requirements in the FSAP, SAP, and QAPP. The FSAP lists a pH holding time requirement of "as soon as possible." All pH measurements were taken after sample compositing was performed. The sampling to analysis time varied from 1 to 34 days for the solid samples (see Attachment 3) and 15 hours for the liquid sample. There was no correlation between pH results and days to analysis, and the results fall within an expected range for alkaline soils. This indicates that the variation in holding time has no apparent effect on the results.

3.2.4 Mercury

Analysis for mercury by cold-vapor/atomic absorption was performed on the grab samples, liner composite samples, and the equipment blank. All results met the QC requirements in the FSAP,

SAP, and QAPP. All analyses met the holding time of 28 days. This analysis met the required and target detection limits.

3.2.5 Ion Chromatography – Ammonium

Analysis for ammonium was performed using a distillation preparation of the grab samples, liner composite samples, and the equipment blank. There is no regulatory holding time limit promulgated for ammonium in soil. The SAP lists an administrative holding time of 7 days. The laboratory believes that after distillation and preservation, the holding time is 28 days, based on U.S. Environmental Protection Agency drinking water and waste water holding times for preserved samples. All samples met these holding times.

Batch 21436: Ammonium was detected in the preparation blanks at a level below the quantitation limit and above the MDL. Ammonium was also detected in the samples above the quantitation limit but at more than 5 times the level of the blank; therefore, these results have not been flagged with a “C”.

Batch 21540: Ammonium was detected in the preparation blanks at a level below the quantitation limit and above the MDL. Ammonium was also detected in all but one of the samples below the quantitation limit and less than 5 times the level of the blank; therefore, these results have been flagged with a “C”. Ammonium was also detected in one sample above the quantitation limit but at more than 5 times the level of the blank; therefore, this result has not been flagged with a “C”.

Batch 21732: Ammonium was detected in the preparation blanks at a level below the quantitation limit and above the MDL. Ammonium was also detected the samples above the quantitation limit and less than 5 times the level of the blank; therefore, these results have been flagged with a “C”.

Batch 21732: Ammonium was detected in the preparation blanks at a level below the quantitation limit and above the MDL. Ammonium was also detected in the samples at a similar level; therefore, the result has been flagged with a “C”. The RPD was above the ±30% requirement. However, since the result was below the quantitation limit this criterion did not apply.

3.2.6 Ion Chromatography – Anions and Small Organic Acids

Ion chromatography analysis was performed on all grab samples, liner composite samples, and the equipment blank. The laboratory met all of the required and target detection limits. All analyses were within the applicable SW-846 holding times. The sample spikes used for the standard water digestions are predigestion spikes.

Fluoride was detected in the equipment blank above the quantitation limit. Since fluoride is commonly found in drinking water, the laboratory believes the most likely source of the fluoride was probably the water used by field personnel to make the equipment blank.

Batch 21524: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and QAPP were met.

Batch 22189: The RPD for oxalate exceeded the ±30% requirement in the FSAP at 139%. The laboratory believes this is likely due to sample nonhomogeneity. Since the result for the duplicate was below the quantitation limit, reanalysis was not required and no flag has been applied. The high sample result for oxalate is anomalous for vadose soil.

Batch 22897: The RPD for sulfate exceeded the ±30% requirement in the FSAP at 34%. The laboratory believes this is likely due to sample nonhomogeneity. This was discussed with the client, and the laboratory was instructed to report the result with this narration (see Attachment 8). The RPDs for nitrite and oxalate exceeded the ±30% requirement in the FSAP. Since the results for both analytes were below the quantitation limit, this criteria does not apply. A low level of nitrite was detected in the preparation blank, and the result has been flagged with a "C". Since both blank and sample results were below the quantitation limit, reanalysis was not required.

3.2.7 Inductively Coupled Plasma/Atomic Emission Spectroscopy

The ICP/AES analysis was performed on an acid-digest (SW-846 3050B) of all grab samples, liner composite samples, and the equipment blank. The ICP/AES analysis was unable to obtain the required detection limit for antimony, arsenic, cadmium, lead, selenium, silver, and thallium for the soil sample. These elements have been reported from separate ICP/MS analyses. Total uranium has not been reported by the ICP/AES analysis since it cannot meet the required detection limits in the SAP. The isotopic uranium analysis by ICP/MS met the required detection limit for ^{238}U, which is essentially total uranium. The overall data usability was not affected. For all other metals reported by ICP/AES, all target and required detection limits were met. SW-846 lists the holding times for ICP/AES metals as 6 months. All analyses met the holding times. All primary metal constituents are reported. Secondary constituents are only reported if the results were above the MDL and had a valid calibration.

Batch 22570: The interference check standard-A (ICSA) produced positive results for arsenic, cadmium, selenium, manganese, and nickel. Since the sample results for these elements were below the MDL and the interference check sample AB (ICSAB) recoveries were within the required limit, the data usability was not affected. The initial low level standard (LLS) recovery for potassium was above the ±30% limit at 150%. Since the sample result for potassium was below the MDL, the data usability was not affected.

Batch 24239: The ICSA produced positive results for manganese. However, in the ICSAB, manganese was recovered at 98%, and there appears to be no positive interference at this concentration. Since the sample concentration for manganese is near the ICSAB concentration, the data usability was not affected. The ICSAB also produced a result above the quantitation limit for neodymium. This indicates that spectral interference was occurring. Neodymium results in the sample were not reported due to the high probability that they were the result of this interference. A low level of iron was detected in the preparation blank, but reanalysis was not required since these levels were less than 20% of the lowest sample result. Cobalt was detected in the preparation blank at slightly above the MDL. One sample result for cobalt was less than 5

times the blank result and has been flagged with "C". Since both the blank and sample results were below the quantitation limit, reanalysis was not required. The remaining 8 sample results were more than 5 times the blank result. The MS recoveries for aluminum, calcium, iron, magnesium, potassium, sodium, phosphorous, and titanium exceeded the ±25% requirement in the FSAP and SAP. Since the sample results for these elements exceeded the MS level by more than four times, this criterion does not apply.

3.2.8 Inductively Coupled Plasma/Mass Spectroscopy

The ICP/MS actinide and trace metal analyses were performed on the standard SW-846 3050 acid digestion of all grab samples, liner composite samples, and the equipment blank. The ICP/MS ^{126}Sn and ^{99}Tc analysis was performed on the same basic digest without the addition of hydrochloric acid. Hydrochloric acid is not used for ^{99}Tc analysis because of the potential formation of a ZnCl ion pair with mass 99. ICP/MS trace metal analysis for antimony was performed on the SW-846 3050 digest with additional hydrochloric acid, which is required to keep antimony in the solution. In addition to these acid digests, ICP/MS ^{99}Tc analysis was performed on a vadose water digest of all solid samples.

Direct is the most accurate type of calibration; however, standard material is not commercially available for all of the isotopes of interest. Concentrations of those isotopes without available standards are estimated based on the instrument's mass-response curve, which is generated by using the intensity/concentration relationship for the available isotope standards. Results estimated in this manner are designated "semi-quantitative."

Table 1. Inductively Coupled Plasma-Mass Spectroscopy Standards and Spikes

Standard Type	Analytes Analyzed
Initial calibration verification (nondigested)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Acid digest standard (laboratory control standard)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Predigest spike (MS)	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
Post-digest spike	^{232}Th, ^{235}U, ^{238}U, ^{237}Np, ^{99}Tc, ^{117}Sn
No standard or spike of either type	^{126}Sn, ^{230}Th, ^{233}U, ^{234}U, ^{236}U

3.2.8.1 Technetium-99 and Tin-126

The required detection limit listed in the SAP for ^{99}Tc was met. The target detection limit for ^{99}Tc was not met. There were no required or target detection limits for ^{126}Sn listed in the SAP. The SAP lists the holding time for isotopic analytes as 6 months. All samples were analyzed within the holding time.

Because there is no available source for ^{126}Sn, ^{117}Sn is used to monitor the chemical recovery for this analysis. Though not specifically requested in the SAP, ^{117}Sn is reported for the laboratory control sample (LCS) and MS in order to demonstrate method accuracy and presence of possible matrix interference.

All solid sample results for ^{126}Sn were above the MDL and below the quantitation limit. Based on this, the laboratory suspects that a low level isobaric interference is present in these samples at mass 126. The laboratory has concluded that the most likely interferences are from the

polyatomic ions, zirconium chloride, strontium argide, and yttrium chloride. Users of this data should be aware that all positive ^{126}Sn results in the report may be due to isobaric interference and have therefore, been flagged with an "E" The laboratory is currently evaluating how to quantify the possible isobaric interferences for ^{126}Sn.

Batch 24429: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and QAPP were met.

Batch 23853: There were no notable issues with this batch, and all QC requirements in the QAPP were met. However, the laboratory failed to include MS and duplicate QC samples for core hole C7682. This fails to meet the QC requirements in the SAP and FSAP since all of this core's solid samples were in this batch. This batch did include MS and duplicate QC samples from another C Farm core, C7676, whose recoveries and RPDs met the SAP and FSAP requirements. This was discussed with the client (see Attachment 8), and the laboratory was allowed to report these results and has included the QC sample results in Attachment 4.

3.2.8.2 Technetium-99 (Vadose Water Digest)

The required and target detection limits listed in the SAP for ^{99}Tc were met. The SAP lists a holding time of 6 months for isotopic analytes. All analyses met this holding time. There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and QAPP were met.

Batch 23162: There were no notable issues with this batch, and all QC requirements in the QAPP were met. However, the laboratory failed to include MS and duplicate QC samples for core hole C7682. This fails to meet the QC requirements in the SAP and FSAP since all of this core's solid samples were in this batch. This batch did include MS and duplicate QC samples from another C Farm core, C7676, whose recoveries and RPDs met the SAP and FSAP requirements. This was discussed with the client (see Attachment 8), and the laboratory was allowed to report these results and has included the QC sample results in Attachment 4.

3.2.8.3 Actinides

The required and target detection limits were met for all isotopes and in all samples. The SAP lists the holding time for isotopic analytes as 6 months. All samples were analyzed within the holding time.

Batch 24022: The closing low level standard (LLS) for ^{235}U and ^{238}U exceeded the ±30% limit at 17% and 35%. The sample results for these isotopes were below the MDL. This could indicate a low bias for results near the LLS. However, assuming a 90% low bias, the adjusted results would still be below the quantitation limit. The closing continuing calibration blank (CCB) result for ^{237}Np was slightly above the MDL. The sample result for this isotope was below the MDL.

Batch 23864: The preparation blank and CCB results for ^{230}Th and ^{236}U were slightly above the MDL. Some of the samples had similar results that should be considered equivalent to the blank. The affected results have been flagged with a "B". The laboratory failed to include MS and duplicate QC samples for core hole C7682. This fails to meet the QC requirements in the SAP and FSAP since all of this core's solid samples were in this batch. This batch did include MS and duplicate QC samples for another C Farm core, C7676, whose recoveries and RPDs met the SAP and FSAP requirements. This was discussed with the client (see Attachment 8), and the

laboratory was allowed to report these results and has included the QC sample results in Attachment 4.

3.2.8.4 Trace Metals

Antimony, arsenic, cadmium, lead, selenium, silver, and thallium were analyzed by ICP/MS to obtain the required detection limits in the SAP. Due to an extended room outage at the 222-S Laboratory, samples were sent to the WSCF Laboratory by WRPS for analysis. Table 2 lists the samples and analytes that were analyzed and reported by WSCF for C7682. The WSCF report is included in Appendix A of this report, and these results will be placed in the Hanford Environmental Information System. The WSCF report is included in its entirety, but not all results pertain to this report. Except for the required detection limit for selenium, all required detection limits were met or the sample results were above the quantitation limit and the sample detection limit criteria do not apply. All target detection limits were met. All samples were analyzed within the holding time.

Table 2. ICPMS Analysis Performed at the WSCF Laboratory

Client Sample No.	Sample Depth	ICP/MS Analysis Performed at WSCF
B26JL0	Surface	Arsenic, Cadmium, Lead, Selenium, Silver, Thallium
B26JL1	Surface Dup	Arsenic, Cadmium, Lead, Selenium, Silver, Thallium
B26C47	5-7ft	Selenium, Silver, Arsenic
B26C51	12-14ft	Selenium, Silver, Arsenic
B26C53	14-16ft	Selenium, Silver, Arsenic
B26C55	18-20ft	Selenium, Silver, Arsenic
B26C57	47-47ft	Selenium, Silver, Arsenic
B26C61	122-124ft	Selenium, Silver, Arsenic

Batch 22376: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and QAPP were met. This batch only reported antimony.

Batch 24036: The laboratory failed to include MS and duplicate QC samples for core hole C7682. This fails to meet the QC requirements in the SAP and FSAP since all of this core's solid samples were in this batch. This batch did include MS and duplicate QC samples for another C Farm core, C7676, whose recoveries and RPDs met the SAP and FSAP requirements. This was discussed with the client (see Attachment 8), and the laboratory was allowed to report these results and has included the QC sample results in Attachment 4. The serial dilution for lead exceeded the ±10% requirement at +24%. This would indicate a low bias.

3.3 RADIOCHEMICAL ANALYSIS

The holding time listed in the SAP for radioactive isotopes is 6 months. The FSAP lists the holding time as "none." SW-846 does not address holding times for radiochemical analytes. All radiochemical analyses met the 6-month holding time listed in the SAP. Holding time tables for these analytes have not been included in Attachment 3. With the exception of the ^{14}C and ^{3}H analyses, tracers and spikes are added prior to the digestion.

3.3.1 Gamma Energy Analysis

GEA was performed directly on the grab samples, liner composite samples, and the equipment blank. The SAP requires the reporting of all isotopes with positive results above the MDA; therefore, isotopes additional to those required in the SAP were reported when detected. The GEA analysis met all of the required detection limits in the SAP. The laboratory was unable to meet any of the target detection limits.

3.3.2 Strontium-89/90

Strontium-89/90 analysis was performed on the grab samples, liner composite samples, and the equipment blank. All of the sample analyses met the required and target detection limits. The FSAP and SAP requested ^{90}Sr, not $^{89/90}$Sr, be reported. The 222-S Laboratory only performs the latter analysis. Since the half-life for ^{89}Sr is approximately 51 days and ^{89}Sr has not been produced at Hanford for years, $^{89/90}$Sr is essentially ^{90}Sr. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and QAPP were met.

3.3.3 Tritium

The ^{3}H analysis by liquid scintillation counting (LSC) was performed on a water leach of all grab samples, liner composite samples, and directly on the equipment blank. This method only measured the ^{3}H in the samples that could be dissolved in water. This analysis achieved the required and target detection limits in the FSAP.

Batch 22818: The preparation blank demonstrated a positive result below the quantitation limit. This result had a very large counting uncertainty and was below the target detection limit. The sample result was below the MDA, and therefore, the data usability was not affected.

Batch 23378: There were no notable issues with the batch, and all QC requirements in the FSAP, SAP, and QAPP were met. However, the laboratory failed to include MS and duplicate QC samples for core hole C7682. This fails to meet the QC requirements in the SAP and FSAP since all of this core's solid samples were in this batch. This batch did include MS and duplicate QC samples for another C Farm core, C7676, whose recoveries and RPDs met the SAP and FSAP requirements. This was discussed with the client (see Attachment 8), and the laboratory was allowed to report these results and has included the QC sample results in Attachment 4.

3.3.4 Selenium-79

The ^{79}Se analysis by LSC was performed on the grab samples, liner composite samples, and the equipment blank. The analysis achieved the target detection limit in the FSAP. No required detection limit was listed. The analysis achieved the target detection limit. No standard is currently available for ^{79}Se, and a cold carrier is used to monitor recovery and is measured gravimetrically. The ^{14}C LSC curve is used to determine the ^{79}Se results since their energies are similar. Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum tracer/carrier recovery is 50%.

Batch 23910: The carrier recovery for one sample was below the 30% level at 26%; however, even with the reduced sensitivity, the sample MDA was below the target detection. The sample result was below the MDA, and therefore, reanalysis was not performed.

3.3.5 Carbon-14

The ^{14}C analysis by LSC was performed on a water leach of the grab samples, liner composite samples, and directly on the equipment blank. The analysis achieved the required detection limit in the FSAP but exceeded the target detection limit. This analysis will only detect water soluble forms of ^{14}C. There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and QAPP were met.

Batch 22686: There were no notable issues with this batch, and all QC requirements in the FSAP, SAP, and QAPP were met. However, the laboratory failed to include MS and duplicate QC samples for core hole C7682. This fails to meet the QC requirements in the SAP and FSAP since all of this core's solid samples were in this batch. This batch did include MS and duplicate QC samples for another C Farm core, C7676, whose recoveries and RPDs met the SAP and FSAP requirements. This was discussed with the client (see Attachment 8), and the laboratory was allowed to report these results and has included the QC sample results in Attachment 4.

3.3.6 Nickel-63

The ^{63}Ni analysis by LSC was performed on the grab samples, liner composite samples, and the equipment blank. The analysis achieved the required and target detection limits in the FSAP. Since both ^{63}Ni and ^{79}Se use a single digestion batch that is equally split prior to the separation step, the maximum trace/carrier recovery is 50%. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and QAPP were met.

3.3.7 Iodine-129

Analysis for ^{129}I by low energy GEA was performed on all grab samples, liner composite samples, and the equipment blank. The required and target detection limits in the SAP were met. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and QAPP were met.

3.3.8 Americium-241, Curium-243/244, and Curium-242

Analysis for ^{241}Am, $^{243/244}Cm$, and ^{242}Cm by alpha energy analysis (AEA) was performed on the grab samples, liner composite samples, and the equipment blank. For this analysis, there were no notable issues with any batches and all QC requirements in the FSAP, SAP, and QAPP were met. The required and target detection limits in the SAP were met. The SAP and FSAP requested ^{243}Cm and ^{244}Cm be reported separately. Since it is not possible to resolve these individual isotopes when using AEA, these isotopes have been reported as $^{243/244}Cm$.

3.3.9 Plutonium-238 and Plutonium-239/240

Plutonium isotopic (^{238}Pu and $^{239/240}$Pu) analysis by AEA was performed on the grab samples, liner composite samples, and the equipment blank. For this analysis, there were no notable issues with any batches and all QC requirements in the FSAP, SAP, and QAPP were met. The required and target detection limits in the SAP were met.

3.4 ORGANIC ANALYSES

3.4.1 Volatile Organic Analysis

The VOA by GC/MS was performed on field samples by purge and trap. Field sampling methods, sample containers, and preservation methods followed SW-846 5035. The soil samples were delivered in a freezer in pre-weighed VOA vials with magnetic stir bars and approximately 5 g of sample. After receipt, the VOA samples were stored in a freezer. For each sample interval, an additional high-level sample preserved in methanol was also received. These were not used because none of the results for the frozen samples were above the calibration range. The exact weight of the sample and the tare weight of the VOA vials were recorded by sampling personnel and delivered with the samples. Nine field blanks, six trip blanks, and one equipment blank were also received and analyzed. The samples were preserved with either HCl or H_2SO_4 to a pH < 2. The holding time for all samples is 14 days. All samples except for one met the required holding time. The equipment blank sample, B26PF9, was analyzed 4 days past the holding time, due to an oversight in holding time tracking. All primary organic constituents are reported. Secondary and unlisted constituents are only reported if the results were above the MDL and had a validation calibration.

The VOA met the target and required detection limits in the SAP. The SAP and FSAP requested m-xylene and p-xylene be reported separately. Since it is not possible to resolve these individual compounds when performing VOA by SW-846 8260C, these compounds have been reported as m+p xylene. The SAP and FSAP request that methanol be reported with this analysis; however, this compound is too polar to be purged and cannot be reported (see Attachment 8). Isobutanol, another poor purger, was reported as a semivolatile organic compound.

Seven of the field blanks and four of the trip blanks contained chloroform above the quantification level. Since chloroform is a common chlorination byproduct, the laboratory believes a likely source of chloroform may be the water used by sampling personnel to make the various field blanks.

The LCS, MS, and MSD recoveries were compared against the laboratory's statistical process control (SPC) limits, as required by SW-846. The use of SPC limits is allowed in the FSAP, SAP, and QAPP.

Batch 21533: The method blank results for toluene and styrene were above the MDL but below the quantitation limit. All of the samples contained toluene and most contained styrene, and all of which have been flagged with at "B". Since the blank results were below the quantitation limit, reanalysis was not required. Carbon disulfide was detected in the method blank below the quantitation limit but was not detected in the samples. The continuing calibration verification

standard (CCV) demonstrated a % difference (%D) for chloro-methane of -26%, which exceeds the ±20% limit. This could indicate a slight low bias for this compound; however, the raw response for this compound's monitor ions was well below the MDL. The %D for 1-butanol in the CCV exceeded the ±20% limit at +29%. Since 1-butanol was not detected in the samples, the usability of the data was not affected.

The internal standards for one sample, B26JM1 (S10V002306), were recovered extremely low, ranging from -89% to -90%. This was not discovered until November 7, 2010, well after the holding time had expired. Therefore, no reanalysis was performed and the results have been flagged with an "X". Examination of the raw response numbers indicated that approximately 5 to 6 times less sample was transferred to the column for this sample than others in the batch. This effectively raises the MDLs for this sample's results by a factor of 5. Since the quantitation limit is 10 times the MDL, it is unlikely that any results above the quantitation limit were missed. Additionally, the surrogate recoveries were within the required ranges, indicating that enough internal standard was recovered to make meaningful adjustments to the raw instrument responses.

Batch 21601: The method blank result for toluene was above the MDL but below the quantitation limit. Since all toluene sample results in the batch were below the MDL, the data usability was not affected.

Batch 21716: The method blank result for toluene was above the MDL but below the quantitation limit. Since all toluene results in the batch were below the MDL, the data usability was not affected. The internal standards for MSD for sample B26CY5 (S10V002245) were recovered extremely low, ranging from -94% to -95%. The spike and surrogate compound recoveries were within the required ranges, indicating that enough internal standard was recovered to make meaningful adjustments to the raw instrument responses for the surrogate and spike compounds. Since the MSD is only used to verify the RPD between the MS and MSD, which it did, reanalysis was not required.

Batch 21718: The method blank result for toluene was above the MDL but below the quantitation limit. One of the samples in this batch contained toluene at a similar level and has been flagged with at "B".

Batch 21719: The method blank results for toluene and styrene were above the MDL but below the quantitation limit. All of the samples contained toluene and styrene below the quantitation limit and have been flagged with at "B". Since all results were below the quantitation limit, reanalysis was not required.

Batch 23317: The method blank result for toluene was above the MDL but below the quantitation limit. Since the toluene result for the sample was below the MDL, the data usability was not affected. The %D for 1-butanol in the CCV exceeded the ±20% limit at +29%. Since 1-butanol was not detected in the sample, the usability of the data was not affected.

3.4.2 Semivolatile Organic Analysis

The semivolatile organic analysis (SVOA) by GC/MS was performed on methylene chloride extractions of all grab samples, liner composite samples, and the equipment blank. All holding times were met.

The SVOA analysis met the required and target detection limits with two exceptions:

- The adjusted MDLs for cyclohexanone were above the 0.5-mg/kg target detection limit for most samples. This compound obtained detection limits between 0.5 mg/kg and 0.6 mg/kg.
- The adjusted MDLs for di-n-butyl-phthalate were above the target detection limit of 0.33 mg/kg. The analysis achieved a detection limit of between 0.5 mg/kg and 0.6 mg/kg for this compound.

LCS, MS, and MSD recoveries were compared against the laboratory's SPC limits, as required by SW-846. The use of SPC limits is permitted in the FSAP, SAP, and QAPP.

The SAP and FSAP requested 3-methylphenol and 4-methylpnenol be reported separately. Since it is not possible to resolve these individual compounds when performing SVOA by SW-846 8270C, these compounds have been reported as 3&4 methylphenol. There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and QAPP were met.

3.4.3 Tentatively Identified Compounds

Unassigned peaks or TICs were treated as follows. Standards were obtained and analyzed for each secondary analyte identified in the SAP. This data was accumulated in the Hanford library. Following analysis, the largest TICs with instrument responses greater than 10% of the response of the nearest internal standard were evaluated and compared to the Hanford library. The estimated concentration of these TICs was calculated using measured response factors from the Hanford library compound list.

After comparison to the Hanford library, remaining unknowns were compared to the National Institute of Standards and Technology's NIST 02, *HP Mass Spectral Libraries*. The estimated concentration of compounds identified in the NIST library was calculated based on an arbitrary response factor of 1.0. If the compounds were not identified as a result of this comparison, they were reported as "unknown." Summaries of the SVOA and VOA TICs from the field samples and method blanks are provided in Attachment 5. TICs that were found in the field samples and were present in the associated batch method blank have been flagged with "B".

4.0 PROCEDURES

Table 3 lists the analytical procedures used for analysis of the Area C samples.

Table 3. Analytical Procedures

Analysis	Preparation Method	Analysis Procedure
Inorganic Analyses		
Cyanide (soil)	LA-695-103, Rev. J-0 (SW-846 9010C)	LA-695-103, Rev. J-0 (SW-846 9014)
Cyanide (water)	LA-695-102, Rev. L-0 (SW-846 9010C)	LA-695-102, Rev. L-0 (SW-846 9014)
Sulfide	LA-361-101, Rev. D-0 (SW-846 9030B)	LA-361-101, Rev. D-0 (SW-846 9215)
pH (solid)	LA-212-105, Rev. H-0 (SW-846 9045D)	LA-212-105, Rev. H-0 (SW-846 9045D)
pH (water)	LA-212-106, Rev. H-0-A (SW-846 9040C)	LA-212-106, Rev. H-0-A (SW-846 9040C)
Mercury – Cold Vapor Atomic Absorption	LA-325-110, Rev. A-0 (SW-846 7471A) (solid)	LA-325-110, Rev. A-0 (SW-846 7471A) (solid)
	LA-325-106, Rev. G-0 (SW-846 7470A) (liquid)	LA-325-106, Rev. G-0 (SW-846 7470A) (liquid)
Ammonia – IC	LA-544-112, Rev. E-0	LA-533-101, Rev. Q-0
Anions & Organic Acids – IC	LA-504-101, Rev. M-0	LA-533-115, Rev. J-0
Metals – ICP /AES	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-505-161, Rev. J-0-A (SW-846 6010C)
^{99}Tc, ^{126}Sn – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. F-1
^{99}Tc – ICP/MS	08-ATL-078 Vadose Water Digest	LA-506-102, Rev. F-1
Metals – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. F-1 (SW-846 6020A)
Actinides – ICP/MS	LA-505-163, Rev. G-0 (SW-846 3050B)	LA-506-102, Rev. F-1
Radiochemical Analyses		
GEA	Direct	LA-548-121, Rev. I-0
^{90}Sr – Separation/Beta counting (solid)	LA-544-101, Rev. F-0	LA-220-101, Rev. I-0
^{90}Sr – Separation/Beta counting (liquid)		LA-220-104, Rev. I-0
^{3}H – LSC	LA-504-101, Rev. M-0 (solid)	LA-218-111, Rev. G-0
^{14}C – LSC	LA-504-101, Rev. M-0 (solid)	LA-348-104, Rev. I-0

Analysis	Preparation Method	Analysis Procedure
^{79}Se – Separation/LSC	LA-544-101, Rev. F-0 (solid)	LA-365-132, Rev. I-0
^{63}Ni – Separation/LSC	LA-544-101, Rev. F-0 (solid)	LA-285-102, Rev. E-0
^{129}I – Separation/GEA (soil)	LA-378-105, Rev. D-0	LA-378-105, Rev. D-0
^{129}I – Separation/GEA (water)	LA-378-103, Rev. D-0	LA-378-103, Rev. K-0
^{241}Am, $^{243/244, 242}$Cm – Separation/AEA	LA-544-101, Rev. F-0 (solid)	LA-953-104, Rev. H-1
$^{239/240, 238}$Pu – Separation/AEA	LA-544-101, Rev. F-0 (solid)	LA-953-104, Rev. H-1
Organic Analyses		
VOC – GC/MS	Direct	LA-523-118, Rev. H-O (SW-846 8260B)
SVOC – GC/MS	LA-523-138, Rev. G-0 (SW-846 3540C) (solid) LA-523-115, Rev. H-0 (SW-846 3520C) (liquid)	LA-523-135, Rev. D-0 (SW-846 8270C)

5.0 REFERENCES

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Attachment 1

DATA SUMMARY REPORT

Data Summary Report

Sample Group: 20100676

Core Number: C7682

Customer Sample ID: B26PF9

Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002645		71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002645		79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002645		79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002645		75-35-4	1,1-Dichloroethene	ug/L	124	<0.172	<0.191	n/a	n/a	n/a	123	0.191	n/a	U
S10V002645		107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002645		71-36-3	1-Butanol	ug/L	112	<1.15	<1.28	n/a	n/a	n/a	115	1.28	n/a	U
S10V002645		108-10-1	Hexone	ug/L	105	<0.453	<0.503	n/a	n/a	n/a	114	0.503	n/a	U
S10V002645		67-64-1	Acetone	ug/L	99.1	<0.573	<0.637	n/a	n/a	n/a	110	0.637	n/a	U
S10V002645		71-43-2	Benzene	ug/L	110	<0.0163	<0.0181	n/a	n/a	n/a	109	0.0181	n/a	U
S10V002645		75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002645		56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002645		67-66-3	Chloroform	ug/L	n/a	<0.0414	<0.0460	n/a	n/a	n/a	n/a	0.0460	n/a	U
S10V002645		108-90-7	Chlorobenzene	ug/L	104	<0.0320	<0.0356	n/a	n/a	n/a	101	0.0356	n/a	U
S10V002645		100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002645		1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002645		78-93-3	2-Butanone	ug/L	104	<0.458	<0.509	n/a	n/a	n/a	112	0.509	n/a	U
S10V002645		75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002645		127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002645		108-88-3	Toluene	ug/L	104	0.0820	<0.0580	n/a	n/a	n/a	102	0.0580	n/a	U
S10V002645		10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002645		79-01-6	Trichloroethene	ug/L	108	<0.0378	<0.0420	n/a	n/a	n/a	109	0.0420	n/a	U
S10V002645		75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002645		156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002645		156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002645		76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002645		79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002645		141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002645		60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002645		75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

NA = Not Analyzed, ND = Not Detected

X - Comment
U - Less Than Detection Limit
M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100676

Core Number: C7682

Customer Sample ID: B26PF9

Sample Depth: Equipment Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002645			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002645			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U
S10V002646		O	120-82-1	1,2,4-Trichlorobenzene	ug/L	38.3	<25.5	<35.7	n/a	n/a	n/a	38.9	35.7	n/a	U
S10V002646		O	95-50-1	1,2-Dichlorobenzene	ug/L	n/a	<71.1	<99.5	n/a	n/a	n/a	n/a	99.5	n/a	U
S10V002646		O	121-14-2	2,4-Dinitrotoluene	ug/L	75.0	<13.5	<18.9	n/a	n/a	n/a	71.3	18.9	n/a	U
S10V002646		O	95-95-4	2,4,5-Trichlorophenol	ug/L	n/a	<16.3	<22.9	n/a	n/a	n/a	n/a	22.9	n/a	U
S10V002646		O	88-06-2	2,4,6-Trichlorophenol	ug/L	n/a	<17.2	<24.0	n/a	n/a	n/a	n/a	24.0	n/a	U
S10V002646		O	95-48-7	2-Methylphenol	ug/L	n/a	<20.6	<28.9	n/a	n/a	n/a	n/a	28.9	n/a	U
S10V002646		O	88-75-5	2-Nitrophenol	ug/L	n/a	<22.4	<31.4	n/a	n/a	n/a	n/a	31.4	n/a	U
S10V002646		O	65794-96-9	3 &4 Methylphenol	ug/L	n/a	<20.6	<28.9	n/a	n/a	n/a	n/a	28.9	n/a	U
S10V002646		O	83-32-9	Acenaphthene	ug/L	55.9	<25.2	<35.3	n/a	n/a	n/a	58.9	35.3	n/a	U
S10V002646		O	56-55-3	Benzo(a)anthracene	ug/L	n/a	<17.2	<24.1	n/a	n/a	n/a	n/a	24.1	n/a	U
S10V002646		O	205-99-2	Benzo(b)fluoranthene	ug/L	n/a	<16.5	<23.2	n/a	n/a	n/a	n/a	23.2	n/a	U
S10V002646		O	50-32-8	Benzo(a)pyrene	ug/L	n/a	<15.5	<21.7	n/a	n/a	n/a	n/a	21.7	n/a	U
S10V002646		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/L	n/a	<51.2	<71.7	n/a	n/a	n/a	n/a	71.7	n/a	U
S10V002646		O	207-08-9	Benzo(k)fluoranthene	ug/L	n/a	<15.8	<22.1	n/a	n/a	n/a	n/a	22.1	n/a	U
S10V002646		O	85-68-7	Butylbenzylphthalate	ug/L	n/a	<14.7	<20.6	n/a	n/a	n/a	n/a	20.6	n/a	U
S10V002646		O	59-50-7	4-Chloro-3-methylphenol	ug/L	65.0	<17.4	<24.3	n/a	n/a	n/a	60.5	24.3	n/a	U
S10V002646		O	95-57-8	2-Chlorophenol	ug/L	66.5	<23.9	<33.4	n/a	n/a	n/a	64.3	33.4	n/a	U
S10V002646		O	218-01-9	Chrysene	ug/L	n/a	<16.5	<23.1	n/a	n/a	n/a	n/a	23.1	n/a	U
S10V002646		O	53-70-3	Dibenz[a,h]anthracene	ug/L	n/a	<15.5	<21.7	n/a	n/a	n/a	n/a	21.7	n/a	U
S10V002646		O	84-74-2	Di-n-butylphthalate	ug/L	n/a	<14.9	<20.9	n/a	n/a	n/a	n/a	20.9	n/a	U
S10V002646		O	117-84-0	Di-n-octylphthalate	ug/L	n/a	<17.0	<23.8	n/a	n/a	n/a	n/a	23.8	n/a	U
S10V002646		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/L	68.9	<23.9	<33.4	n/a	n/a	n/a	64.9	33.4	n/a	U
S10V002646		O	206-44-0	Fluoranthene	ug/L	n/a	<15.3	<21.4	n/a	n/a	n/a	n/a	21.4	n/a	U
S10V002646		O	87-68-3	Hexachlorobutadiene	ug/L	n/a	<14.0	<19.6	n/a	n/a	n/a	n/a	19.6	n/a	U
S10V002646		O	67-72-1	Hexachloroethane	ug/L	n/a	<9.51	<13.3	n/a	n/a	n/a	n/a	13.3	n/a	U
S10V002646		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/L	n/a	<14.9	<20.9	n/a	n/a	n/a	n/a	20.9	n/a	U
S10V002646		O	91-20-3	Naphthalene	ug/L	n/a	<31.4	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U

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Data Summary Report

Sample Group: 20100676
Core Number: C7682
Customer Sample ID: B26PF9
Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002646	O	98-95-3	Nitrobenzene	ug/L	n/a	<23.5	<32.9	n/a	n/a	n/a	n/a	32.9	n/a	U
S10V002646	O	129-00-0	Pyrene	ug/L	78.1	<15.8	<22.2	n/a	n/a	n/a	70.1	22.2	n/a	U
S10V002646	O	110-86-1	Pyridine	ug/L	n/a	<31.2	<43.7	n/a	n/a	n/a	n/a	43.7	n/a	U
S10V002646	O	126-73-8	Tributyl phosphate	ug/L	n/a	<6.37	<8.92	n/a	n/a	n/a	n/a	8.92	n/a	U
S10V002646	O	128-37-0	BHT	ug/L	n/a	<97.1	<136	n/a	n/a	n/a	n/a	136	n/a	U
S10V002646	O	110-80-5	2-Ethoxyethanol	ug/L	n/a	<73.4	<103	n/a	n/a	n/a	n/a	103	n/a	U
S10V002646	O	1319-77-3	Total Methylphenols	ug/L	n/a	<41.0	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S10V002646	O	108-94-1	Cyclohexanone	ug/L	n/a	<43.6	<61.1	n/a	n/a	n/a	n/a	61.1	n/a	U
S10V002646	O	59-89-2	N-Nitrosomorpholine	ug/L	n/a	<144	<202	n/a	n/a	n/a	n/a	202	n/a	U
S10V002646	O	78-83-1	Isobutanol	ug/L	n/a	<376	<526	n/a	n/a	n/a	n/a	526	n/a	U
S10V002647		7439-97-6	Mercury	ug/mL	99.9	<1.00E-04	<4.00E-04	n/a	n/a	n/a	103	4.00E-04	n/a	U
S10V002647		7440-22-4	Silver	ug/mL	96.1	<5.00E-03	<5.00E-03	<1.00E-02	n/a	n/a	96.9	5.00E-03	n/a	U
S10V002647		7429-90-5	Aluminum	ug/mL	96.3	<0.0300	<0.0300	<0.0600	n/a	n/a	101	0.0300	n/a	U
S10V002647		7440-38-2	Arsenic	ug/mL	91.7	<0.0500	<0.0500	<0.100	n/a	n/a	99.7	0.0500	n/a	U
S10V002647		7440-39-3	Barium	ug/mL	95.4	<3.00E-03	<3.00E-03	<6.00E-03	n/a	n/a	100	3.00E-03	n/a	U
S10V002647		7440-41-7	Beryllium	ug/mL	94.2	<1.00E-03	<1.00E-03	<2.00E-03	n/a	n/a	97.0	1.00E-03	n/a	U
S10V002647		7440-70-2	Calcium	ug/mL	97.8	<0.0500	<0.0500	<0.100	n/a	n/a	98.4	0.0500	n/a	U
S10V002647		7440-43-9	Cadmium	ug/mL	95.3	<5.00E-03	<5.00E-03	<1.00E-02	n/a	n/a	99.0	5.00E-03	n/a	U
S10V002647		7440-48-4	Cobalt	ug/mL	96.6	<0.0100	<0.0100	<0.0200	n/a	n/a	99.0	0.0100	n/a	U
S10V002647		7440-47-3	Chromium	ug/mL	95.8	<5.00E-03	<5.00E-03	<1.00E-02	n/a	n/a	99.4	5.00E-03	n/a	U
S10V002647		7440-50-8	Copper	ug/mL	95.7	<5.00E-03	<5.00E-03	<1.00E-02	n/a	n/a	100	5.00E-03	n/a	U
S10V002647		7439-89-6	Iron	ug/mL	95.7	<5.00E-03	0.0579	0.0556	0.0568	4.18	98.1	0.0100	n/a	B
S10V002647		7440-09-7	Potassium	ug/mL	91.2	<0.500	<0.500	<1.00	n/a	n/a	102	0.500	n/a	U
S10V002647		7439-93-2	Lithium	ug/mL	94.9	<3.00E-03	<3.00E-03	<6.00E-03	n/a	n/a	99.0	3.00E-03	n/a	U
S10V002647		7439-95-4	Magnesium	ug/mL	96.3	<0.0500	<0.0500	<0.100	n/a	n/a	98.5	0.0500	n/a	U
S10V002647		7439-96-5	Manganese	ug/mL	94.8	<3.00E-03	<3.00E-03	<6.00E-03	n/a	n/a	99.3	3.00E-03	n/a	U
S10V002647		7439-98-7	Molybdenum	ug/mL	92.4	<0.0200	<0.0200	<0.0400	n/a	n/a	97.1	0.0200	n/a	U
S10V002647		7440-23-5	Sodium	ug/mL	96.8	<0.100	0.140	<0.200	n/a	n/a	95.8	0.100	n/a	B
S10V002647		7440-02-0	Nickel	ug/mL	95.0	<0.0200	<0.0200	<0.0400	n/a	n/a	97.7	0.0200	n/a	U

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Data Summary Report

Sample Group: 20100676

Core Number: C7682

Customer Sample ID: B26PF9

Sample Depth: Equipment Blank

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002647		7723-14-0	Phosphorus	ug/mL	91.8	<0.0500	<0.0500	<0.100	n/a	n/a	98.2	0.0500	n/a	U
S10V002647		7439-92-1	Lead	ug/mL	98.4	<0.0500	<0.0500	<0.100	n/a	n/a	99.7	0.0500	n/a	U
S10V002647		7440-36-0	Antimony	ug/mL	92.4	<0.0500	<0.0500	<0.100	n/a	n/a	97.2	0.0500	n/a	U
S10V002647		7782-49-2	Selenium	ug/mL	96.5	<0.100	<0.100	<0.200	n/a	n/a	101	0.100	n/a	U
S10V002647		7440-24-6	Strontium	ug/mL	95.3	<3.00E-03	<3.00E-03	<6.00E-03	n/a	n/a	99.5	3.00E-03	n/a	U
S10V002647		7440-29-1	Thorium	ug/mL	101	<0.0500	<0.0500	n/a	n/a	n/a	97.2	0.0500	n/a	U
S10V002647		7440-61-1	Uranium	ug/mL	103	<0.100	<0.100	<0.200	n/a	n/a	96.1	0.100	n/a	U
S10V002647		7440-62-2	Vanadium	ug/mL	97.3	<5.00E-03	<5.00E-03	<1.00E-02	n/a	n/a	99.1	5.00E-03	n/a	U
S10V002647		7440-66-6	Zinc	ug/mL	95.2	<5.00E-03	<5.00E-03	<1.00E-02	n/a	n/a	97.2	5.00E-03	n/a	U
S10V002647		14269-63-7	Thorium-230	ug/mL	n/a	<7.00E-09	<1.40E-08	<1.40E-08	n/a	n/a	n/a	1.40E-08	n/a	U
S10V002647		TH-232	Thorium-232	ug/mL	98.2	<5.00E-07	2.11E-06	1.85E-06	1.98E-06	13.0	99.6	1.00E-06	n/a	
S10V002647		13968-55-3	Uranium-233	ug/mL	n/a	<1.00E-08	<2.00E-08	<2.00E-08	n/a	n/a	n/a	2.00E-08	n/a	U
S10V002647		13966-29-5	Uranium-234	ug/mL	n/a	<5.00E-09	<1.00E-08	1.20E-08	n/a	n/a	n/a	1.00E-08	n/a	U
S10V002647		15117-96-1	Uranium-235	ug/mL	103	<1.00E-08	<2.00E-08	<2.00E-08	n/a	n/a	97.1	2.00E-08	n/a	U
S10V002647		13982-70-2	Uranium-236	ug/mL	n/a	<4.00E-09	<8.00E-09	<8.00E-09	n/a	n/a	n/a	8.00E-09	n/a	U
S10V002647		13994-20-2	Neptunium-237	ug/mL	91.6	<1.00E-07	<2.00E-07	<2.00E-07	n/a	n/a	98.2	2.00E-07	n/a	U
S10V002647		U-238	Uranium-238	ug/mL	98.9	<5.00E-07	<1.00E-06	<1.00E-06	n/a	n/a	101	1.00E-06	n/a	U
S10V002647		14133-76-7	Technetium-99	ug/mL	102	<3.00E-07	<6.00E-07	<6.00E-07	n/a	n/a	94.3	6.00E-07	n/a	U
S10V002647		SN-117	Tin-117	ug/mL	108	<1.00E-05	<2.00E-05	<2.00E-05	n/a	n/a	105	2.00E-05	n/a	U
S10V002647		15832-50-5	Tin-126	ug/mL	n/a	<2.00E-07	<4.00E-07	<4.00E-07	n/a	n/a	n/a	4.00E-07	n/a	U
S10V002648		14762-75-5	Carbon-14	uCi/mL	94.3	<1.28E-07	<1.30E-07	<1.29E-07	n/a	n/a	94.8	1.30E-07	n/a	U
S10V002648		15046-84-1	Iodine-129	uCi/mL	95.0	<2.91E-08	<2.92E-08	<2.60E-08	n/a	n/a	n/a	2.92E-08	n/a	U
S10V002648		10028-17-8	Tritium	uCi/mL	87.9	3.61E-07	<4.75E-07	<2.79E-07	n/a	n/a	91.2	4.75E-07	n/a	U
S10V002649		CM-243/244	Curium-243/244	uCi/mL	n/a	<8.89E-09	<9.45E-09	<9.40E-09	n/a	n/a	n/a	9.45E-09	n/a	U
S10V002649		14596-10-2	Americium-241	uCi/mL	98.3	<2.22E-08	<2.36E-08	<2.35E-08	n/a	n/a	n/a	2.36E-08	n/a	U
S10V002649		15510-73-3	Curium-242	uCi/mL	n/a	<8.89E-09	<9.45E-09	<9.40E-09	n/a	n/a	n/a	9.45E-09	n/a	U
S10V002649		10198-40-0	Cobalt-60	uCi/mL	101	<1.99E-07	<2.00E-07	<2.09E-07	n/a	n/a	n/a	2.00E-07	n/a	U
S10V002649		14234-35-6	Antimony-125	uCi/mL	n/a	<4.94E-07	<4.72E-07	<4.93E-07	n/a	n/a	n/a	4.72E-07	n/a	U
S10V002649		10045-97-3	Cesium-137	uCi/mL	99.7	<2.62E-07	<2.49E-07	<2.49E-07	n/a	n/a	n/a	2.49E-07	n/a	U

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Data Summary Report

Sample Group: 20100676

Core Number: C7682

Customer Sample ID: B26PF9

Sample Depth: Equipment Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002649			14683-23-9	Europium-152	uCi/mL	n/a	<8.66E-07	<9.43E-07	<1.01E-06	n/a	n/a	n/a	9.43E-07	n/a	U
S10V002649			15585-10-1	Europium-154	uCi/mL	n/a	<5.89E-07	<6.20E-07	<6.10E-07	n/a	n/a	n/a	6.20E-07	n/a	U
S10V002649			14391-16-3	Europium-155	uCi/mL	n/a	<3.31E-07	<3.38E-07	<3.33E-07	n/a	n/a	n/a	3.38E-07	n/a	U
S10V002649			14274-82-9	Thorium-228	uCi/mL	n/a	<5.92E-06	<5.86E-06	<6.04E-06	n/a	n/a	n/a	5.86E-06	n/a	U
S10V002649			15065-10-8	Thorium-234	uCi/mL	n/a	<1.83E-06	<1.86E-06	<1.90E-06	n/a	n/a	n/a	1.86E-06	n/a	U
S10V002649			13981-37-8	Nickel-63	uCi/mL	105	<1.96E-07	<1.87E-07	<1.95E-07	n/a	n/a	n/a	1.87E-07	n/a	U
S10V002649			PU-239/240	Plutonium-239/240	uCi/mL	104	<2.92E-08	<3.70E-08	<2.77E-08	n/a	n/a	n/a	3.70E-08	n/a	U
S10V002649			13981-16-3	Plutonium-238	uCi/mL	n/a	<2.92E-08	<3.70E-08	<2.77E-08	n/a	n/a	n/a	3.70E-08	n/a	U
S10V002649			15758-45-9	Selenium-79	uCi/mL	n/a	<1.59E-07	<1.47E-07	2.26E-07	n/a	n/a	n/a	1.47E-07	n/a	U
S10V002649			SR-89/90	Strontium-89/90	uCi/mL	92.6	<1.34E-07	<1.09E-07	<3.72E-08	n/a	n/a	n/a	1.09E-07	n/a	U
S10V002650			16984-48-8	Fluoride	ug/mL	102	<1.61E-03	0.140	0.143	0.142	1.87	103	1.61E-03	n/a	
S10V002650			GLYCOLAT	Glycolate	ug/mL	100	<9.37E-03	<9.37E-03	<9.37E-03	n/a	n/a	101	9.37E-03	n/a	U
S10V002650			71-50-1	Acetate	ug/mL	98.1	<6.04E-03	<6.04E-03	<6.04E-03	n/a	n/a	98.7	6.04E-03	n/a	U
S10V002650			FORMATE	Formate	ug/mL	102	<4.67E-03	<4.67E-03	<4.67E-03	n/a	n/a	102	4.67E-03	n/a	U
S10V002650			16887-00-6	Chloride	ug/mL	99.4	<9.98E-03	<9.98E-03	<9.98E-03	n/a	n/a	99.5	9.98E-03	n/a	U
S10V002650			14797-65-0	Nitrite	ug/mL	97.0	<0.0192	<0.0192	<0.0192	n/a	n/a	98.2	0.0192	n/a	U
S10V002650			14808-79-8	Sulfate	ug/mL	102	<0.0187	<0.0187	<0.0187	n/a	n/a	102	0.0187	n/a	U
S10V002650			338-70-5	Oxalate	ug/mL	101	<0.0231	<0.0231	<0.0231	n/a	n/a	101	0.0231	n/a	U
S10V002650			24959-67-9	Bromide	ug/mL	99.5	<0.0580	<0.0580	<0.0580	n/a	n/a	99.0	0.0580	n/a	U
S10V002650			14797-55-8	Nitrate	ug/mL	101	<0.0208	<0.0208	<0.0208	n/a	n/a	99.9	0.0208	n/a	U
S10V002650			14265-44-2	Phosphate	ug/mL	99.9	<0.0167	<0.0167	<0.0167	n/a	n/a	99.9	0.0167	n/a	U
S10V002650			PH	pH	unitless	n/a	n/a	5.52	5.41	5.46	2.01	n/a	0.0100	n/a	
S10V002651			12597-04-5	Sulfide	ug/mL	105	<0.180	<0.360	<0.360	n/a	n/a	111	0.360	n/a	U
S10V002652			57-12-5	Cyanide	ug/mL	103	<4.00E-03	<0.0200	<0.0200	n/a	n/a	83.2	0.0200	n/a	U
S10V002653		S	14798-03-9	Ammonium	ug/mL	97.3	<0.0120	0.248	<0.120	n/a	n/a	90.1	0.120	n/a	CB

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CX1
Sample Depth: Trip Blank 1

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002251			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002251			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002251			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002251			75-35-4	1,1-Dichloroethene	ug/L	94.3	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002251			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002251			71-36-3	1-Butanol	ug/L	85.3	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002251			108-10-1	Hexone	ug/L	85.6	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002251			67-64-1	Acetone	ug/L	101	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002251			71-43-2	Benzene	ug/L	95.9	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V002251			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002251			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002251			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.840	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V002251			108-90-7	Chlorobenzene	ug/L	98.5	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002251			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002251			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002251			78-93-3	2-Butanone	ug/L	77.5	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002251			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002251			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002251			108-88-3	Toluene	ug/L	99.7	0.130	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002251			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002251			79-01-6	Trichloroethene	ug/L	96.3	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002251			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002251			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002251			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002251			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002251			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002251			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002251			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002251			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX1

Sample Depth: Trip Blank 1

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002251			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002251			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CX2
Sample Depth: Trip Blank 2

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002252		71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002252		79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002252		79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002252		75-35-4	1,1-Dichloroethene	ug/L	94.3	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002252		107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002252		71-36-3	1-Butanol	ug/L	85.3	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002252		108-10-1	Hexone	ug/L	85.6	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002252		67-64-1	Acetone	ug/L	101	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002252		71-43-2	Benzene	ug/L	95.9	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V002252		75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002252		56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002252		67-66-3	Chloroform	ug/L	n/a	<0.0414	0.757	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V002252		108-90-7	Chlorobenzene	ug/L	98.5	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002252		100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002252		1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002252		78-93-3	2-Butanone	ug/L	77.5	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002252		75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002252		127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002252		108-88-3	Toluene	ug/L	99.7	0.130	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002252		10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002252		79-01-6	Trichloroethene	ug/L	96.3	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002252		75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002252		156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002252		156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002252		76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002252		79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002252		141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002252		60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002252		75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX2

Sample Depth: Trip Blank 2

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002252			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002252			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CX3
Sample Depth: Trip Blank 3

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002253			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002253			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002253			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002253			75-35-4	1,1-Dichloroethene	ug/L	101	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002253			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002253			71-36-3	1-Butanol	ug/L	96.9	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002253			108-10-1	Hexone	ug/L	94.0	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002253			67-64-1	Acetone	ug/L	80.5	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002253			71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V002253			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002253			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002253			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.731	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V002253			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002253			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002253			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002253			78-93-3	2-Butanone	ug/L	84.7	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002253			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002253			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002253			108-88-3	Toluene	ug/L	102	0.0840	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002253			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002253			79-01-6	Trichloroethene	ug/L	99.0	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002253			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002253			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002253			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002253			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002253			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002253			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002253			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002253			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX3

Sample Depth: Trip Blank 3

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002253			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002253			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CX4
Sample Depth: Trip Blank 4

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002254			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002254			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002254			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002254			75-35-4	1,1-Dichloroethene	ug/L	101	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002254			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002254			71-36-3	1-Butanol	ug/L	96.9	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002254			108-10-1	Hexone	ug/L	94.0	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002254			67-64-1	Acetone	ug/L	80.5	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002254			71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V002254			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002254			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002254			67-66-3	Chloroform	ug/L	n/a	<0.0414	<0.0460	n/a	n/a	n/a	n/a	0.0460	n/a	U
S10V002254			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002254			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002254			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002254			78-93-3	2-Butanone	ug/L	84.7	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002254			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002254			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002254			108-88-3	Toluene	ug/L	102	0.0840	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002254			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002254			79-01-6	Trichloroethene	ug/L	99.0	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002254			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002254			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002254			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002254			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002254			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002254			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002254			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002254			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX4

Sample Depth: Trip Blank 4

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002254			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002254			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C - Blank Contamination

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J - Estimated

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N - MS/MSD Outside Range

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CX5
Sample Depth: Trip Blank 5

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002255		71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002255		79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002255		79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002255		75-35-4	1,1-Dichloroethene	ug/L	101	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002255		107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002255		71-36-3	1-Butanol	ug/L	96.9	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002255		108-10-1	Hexone	ug/L	94.0	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002255		67-64-1	Acetone	ug/L	80.5	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002255		71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V002255		75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002255		56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002255		67-66-3	Chloroform	ug/L	n/a	<0.0414	0.792	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V002255		108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002255		100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002255		1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002255		78-93-3	2-Butanone	ug/L	84.7	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002255		75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002255		127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002255		108-88-3	Toluene	ug/L	102	0.0840	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002255		10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002255		79-01-6	Trichloroethene	ug/L	99.0	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002255		75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002255		156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002255		156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002255		76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002255		79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002255		141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002255		60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002255		75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX5

Sample Depth: Trip Blank 5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002255			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002255			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CX6
Sample Depth: Trip Blank 6

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002256			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002256			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002256			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002256			75-35-4	1,1-Dichloroethene	ug/L	99.3	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002256			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002256			71-36-3	1-Butanol	ug/L	92.8	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002256			108-10-1	Hexone	ug/L	91.3	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002256			67-64-1	Acetone	ug/L	76.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002256			71-43-2	Benzene	ug/L	99.6	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V002256			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002256			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002256			67-66-3	Chloroform	ug/L	n/a	<0.0414	<0.0460	n/a	n/a	n/a	n/a	0.0460	n/a	U
S10V002256			108-90-7	Chlorobenzene	ug/L	101	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002256			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002256			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002256			78-93-3	2-Butanone	ug/L	83.7	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002256			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002256			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002256			108-88-3	Toluene	ug/L	102	0.0881	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002256			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002256			79-01-6	Trichloroethene	ug/L	99.8	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002256			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002256			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002256			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002256			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002256			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002256			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002256			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002256			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX6

Sample Depth: Trip Blank 6

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002256			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002256			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CY1
Sample Depth: Field Blank 1

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002241			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002241			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002241			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002241			75-35-4	1,1-Dichloroethene	ug/L	101	<0.172	<0.191	n/a	n/a	n/a	92.0	0.191	n/a	U
S10V002241			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002241			71-36-3	1-Butanol	ug/L	96.9	<1.15	<1.28	n/a	n/a	n/a	94.8	1.28	n/a	U
S10V002241			108-10-1	Hexone	ug/L	94.0	<0.453	<0.503	n/a	n/a	n/a	92.8	0.503	n/a	U
S10V002241			67-64-1	Acetone	ug/L	80.5	<0.573	<0.637	n/a	n/a	n/a	77.7	0.637	n/a	U
S10V002241			71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	94.0	0.0181	n/a	U
S10V002241			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002241			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002241			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.716	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V002241			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	97.1	0.0356	n/a	U
S10V002241			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002241			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002241			78-93-3	2-Butanone	ug/L	84.7	<0.458	<0.509	n/a	n/a	n/a	84.8	0.509	n/a	U
S10V002241			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002241			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002241			108-88-3	Toluene	ug/L	102	0.0840	<0.0580	n/a	n/a	n/a	96.4	0.0580	n/a	U
S10V002241			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002241			79-01-6	Trichloroethene	ug/L	99.0	<0.0378	<0.0420	n/a	n/a	n/a	93.0	0.0420	n/a	U
S10V002241			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002241			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002241			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002241			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002241			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002241			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002241			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002241			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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U - Less Than Detection Limit
M - RPD Outside Range
B - Blank Contamination
C - Blank Contamination
E - Estimated by Interference
J - Estimated
B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY1

Sample Depth: Field Blank 1

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002241			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002241			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CY2
Sample Depth: Field Blank 2

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002242			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002242			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002242			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002242			75-35-4	1,1-Dichloroethene	ug/L	94.3	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002242			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002242			71-36-3	1-Butanol	ug/L	85.3	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002242			108-10-1	Hexone	ug/L	85.6	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002242			67-64-1	Acetone	ug/L	101	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002242			71-43-2	Benzene	ug/L	95.9	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V002242			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002242			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002242			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.767	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V002242			108-90-7	Chlorobenzene	ug/L	98.5	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002242			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002242			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002242			78-93-3	2-Butanone	ug/L	77.5	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002242			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002242			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002242			108-88-3	Toluene	ug/L	99.7	0.130	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002242			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002242			79-01-6	Trichloroethene	ug/L	96.3	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002242			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002242			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002242			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002242			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002242			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002242			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002242			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002242			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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U - Less Than Detection Limit
M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

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N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY2

Sample Depth: Field Blank 2

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002242			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002242			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CY3
Sample Depth: Field Blank 3

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002243			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002243			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002243			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002243			75-35-4	1,1-Dichloroethene	ug/L	94.3	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002243			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002243			71-36-3	1-Butanol	ug/L	85.3	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002243			108-10-1	Hexone	ug/L	85.6	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002243			67-64-1	Acetone	ug/L	101	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002243			71-43-2	Benzene	ug/L	95.9	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V002243			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002243			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002243			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.718	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V002243			108-90-7	Chlorobenzene	ug/L	98.5	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002243			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002243			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002243			78-93-3	2-Butanone	ug/L	77.5	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002243			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002243			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002243			108-88-3	Toluene	ug/L	99.7	0.130	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002243			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002243			79-01-6	Trichloroethene	ug/L	96.3	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002243			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002243			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002243			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002243			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002243			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002243			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002243			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002243			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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J - Estimated
B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY3

Sample Depth: Field Blank 3

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002243			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002243			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CY4
Sample Depth: Field Blank 4

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002244			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002244			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002244			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002244			75-35-4	1,1-Dichloroethene	ug/L	94.3	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002244			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002244			71-36-3	1-Butanol	ug/L	85.3	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002244			108-10-1	Hexone	ug/L	85.6	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002244			67-64-1	Acetone	ug/L	101	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002244			71-43-2	Benzene	ug/L	95.9	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V002244			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002244			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002244			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.696	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V002244			108-90-7	Chlorobenzene	ug/L	98.5	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002244			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002244			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002244			78-93-3	2-Butanone	ug/L	77.5	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002244			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002244			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002244			108-88-3	Toluene	ug/L	99.7	0.130	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002244			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002244			79-01-6	Trichloroethene	ug/L	96.3	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002244			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002244			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002244			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002244			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002244			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002244			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002244			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002244			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

NA = Not Analyzed, ND = Not Detected

X - Comment
U - Less Than Detection Limit
M - RPD Outside Range
B - Blank Contamination
C - Blank Contamination
E - Estimated by Interference
J - Estimated
B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY4

Sample Depth: Field Blank 4

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002244			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002244			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

NA = Not Analyzed, ND = Not Detected

X - Comment
U - Less Than Detection Limit
M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CY5
Sample Depth: Field Blank 5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002245			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002245			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002245			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002245			75-35-4	1,1-Dichloroethene	ug/L	101	<0.172	<0.191	n/a	n/a	n/a	95.0	0.191	n/a	U
S10V002245			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002245			71-36-3	1-Butanol	ug/L	96.9	<1.15	<1.28	n/a	n/a	n/a	91.9	1.28	n/a	U
S10V002245			108-10-1	Hexone	ug/L	94.0	<0.453	<0.503	n/a	n/a	n/a	87.3	0.503	n/a	U
S10V002245			67-64-1	Acetone	ug/L	80.5	<0.573	<0.637	n/a	n/a	n/a	75.7	0.637	n/a	U
S10V002245			71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	92.2	0.0181	n/a	U
S10V002245			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002245			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002245			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.676	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V002245			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	93.7	0.0356	n/a	U
S10V002245			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002245			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002245			78-93-3	2-Butanone	ug/L	84.7	<0.458	<0.509	n/a	n/a	n/a	80.9	0.509	n/a	U
S10V002245			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002245			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002245			108-88-3	Toluene	ug/L	102	0.0840	<0.0580	n/a	n/a	n/a	93.7	0.0580	n/a	U
S10V002245			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002245			79-01-6	Trichloroethene	ug/L	99.0	<0.0378	<0.0420	n/a	n/a	n/a	93.4	0.0420	n/a	U
S10V002245			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002245			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002245			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002245			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002245			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002245			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002245			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002245			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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U - Less Than Detection Limit
M - RPD Outside Range
B - Blank Contamination
C - Blank Contamination
E - Estimated by Interference
J - Estimated
B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY5

Sample Depth: Field Blank 5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002245			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002245			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY6

Sample Depth: Field Blank 6

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002246			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002246			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002246			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002246			75-35-4	1,1-Dichloroethene	ug/L	101	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002246			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002246			71-36-3	1-Butanol	ug/L	96.9	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002246			108-10-1	Hexone	ug/L	94.0	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002246			67-64-1	Acetone	ug/L	80.5	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002246			71-43-2	Benzene	ug/L	97.5	<0.0163	0.0517	n/a	n/a	n/a	n/a	0.0181	n/a	J
S10V002246			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002246			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002246			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.679	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V002246			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002246			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002246			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002246			78-93-3	2-Butanone	ug/L	84.7	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002246			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002246			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002246			108-88-3	Toluene	ug/L	102	0.0840	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002246			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002246			79-01-6	Trichloroethene	ug/L	99.0	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002246			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002246			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002246			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002246			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002246			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002246			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002246			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002246			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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X - Comment
U - Less Than Detection Limit
M - RPD Outside Range

B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY6

Sample Depth: Field Blank 6

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002246			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002246			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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B - Blank Contamination
C - Blank Contamination

E - Estimated by Interference
J - Estimated

B - Estimated
N - MS/MSD Outside Range

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CY7
Sample Depth: Field Blank 7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002247			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002247			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002247			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002247			75-35-4	1,1-Dichloroethene	ug/L	101	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002247			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002247			71-36-3	1-Butanol	ug/L	96.9	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002247			108-10-1	Hexone	ug/L	94.0	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002247			67-64-1	Acetone	ug/L	80.5	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002247			71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V002247			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002247			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002247			67-66-3	Chloroform	ug/L	n/a	<0.0414	0.779	n/a	n/a	n/a	n/a	0.0460	n/a	
S10V002247			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002247			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002247			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002247			78-93-3	2-Butanone	ug/L	84.7	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002247			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002247			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002247			108-88-3	Toluene	ug/L	102	0.0840	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002247			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002247			79-01-6	Trichloroethene	ug/L	99.0	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002247			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002247			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002247			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002247			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002247			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002247			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002247			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002247			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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C - Blank Contamination
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J - Estimated
B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY7

Sample Depth: Field Blank 7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002247			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002247			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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B - Blank Contamination
C - Blank Contamination

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J - Estimated

B - Estimated
N - MS/MSD Outside Range

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Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CY8
Sample Depth: Field Blank 8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002248			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002248			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002248			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002248			75-35-4	1,1-Dichloroethene	ug/L	101	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002248			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002248			71-36-3	1-Butanol	ug/L	96.9	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002248			108-10-1	Hexone	ug/L	94.0	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002248			67-64-1	Acetone	ug/L	80.5	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002248			71-43-2	Benzene	ug/L	97.5	<0.0163	<0.0181	n/a	n/a	n/a	n/a	0.0181	n/a	U
S10V002248			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002248			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002248			67-66-3	Chloroform	ug/L	n/a	<0.0414	<0.0460	n/a	n/a	n/a	n/a	0.0460	n/a	U
S10V002248			108-90-7	Chlorobenzene	ug/L	100	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002248			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002248			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002248			78-93-3	2-Butanone	ug/L	84.7	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002248			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002248			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002248			108-88-3	Toluene	ug/L	102	0.0840	<0.0580	n/a	n/a	n/a	n/a	0.0580	n/a	U
S10V002248			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002248			79-01-6	Trichloroethene	ug/L	99.0	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002248			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002248			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002248			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002248			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002248			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002248			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002248			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U
S10V002248			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U

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B - Blank Contamination
C - Blank Contamination
E - Estimated by Interference
J - Estimated
B - Estimated
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10 - Aug - 2011 11:51:47
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY8

Sample Depth: Field Blank 8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002248			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002248			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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10 - Aug - 2011 11:51:47
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.27

Data Summary Report

Sample Group: 20100657
Core Number: C7682
Customer Sample ID: B26CY9
Sample Depth: Field Blank 9

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002249			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.0433	<0.0481	n/a	n/a	n/a	n/a	0.0481	n/a	U
S10V002249			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.0230	<0.0256	n/a	n/a	n/a	n/a	0.0256	n/a	U
S10V002249			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.0203	<0.0226	n/a	n/a	n/a	n/a	0.0226	n/a	U
S10V002249			75-35-4	1,1-Dichloroethene	ug/L	99.3	<0.172	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002249			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0243	<0.0270	n/a	n/a	n/a	n/a	0.0270	n/a	U
S10V002249			71-36-3	1-Butanol	ug/L	92.8	<1.15	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S10V002249			591-78-6	2-Hexanone	ug/L	91.2	<0.454	0.641	n/a	n/a	n/a	n/a	0.505	n/a	J
S10V002249			108-10-1	Hexone	ug/L	91.3	<0.453	<0.503	n/a	n/a	n/a	n/a	0.503	n/a	U
S10V002249			67-64-1	Acetone	ug/L	76.9	<0.573	<0.637	n/a	n/a	n/a	n/a	0.637	n/a	U
S10V002249			71-43-2	Benzene	ug/L	99.6	<0.0163	0.0424	n/a	n/a	n/a	n/a	0.0181	n/a	J
S10V002249			75-15-0	Carbon disulfide	ug/L	n/a	<0.0211	<0.0234	n/a	n/a	n/a	n/a	0.0234	n/a	U
S10V002249			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.0479	<0.0532	n/a	n/a	n/a	n/a	0.0532	n/a	U
S10V002249			67-66-3	Chloroform	ug/L	n/a	<0.0414	<0.0460	n/a	n/a	n/a	n/a	0.0460	n/a	U
S10V002249			108-90-7	Chlorobenzene	ug/L	101	<0.0320	<0.0356	n/a	n/a	n/a	n/a	0.0356	n/a	U
S10V002249			100-41-4	Ethylbenzene	ug/L	n/a	<0.0334	<0.0371	n/a	n/a	n/a	n/a	0.0371	n/a	U
S10V002249			1330-20-7	Xylenes (total)	ug/L	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002249			78-93-3	2-Butanone	ug/L	83.7	<0.458	<0.509	n/a	n/a	n/a	n/a	0.509	n/a	U
S10V002249			75-09-2	Methylenechloride	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002249			127-18-4	Tetrachloroethene	ug/L	n/a	<0.0583	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002249			108-88-3	Toluene	ug/L	102	0.0881	0.0587	n/a	n/a	n/a	n/a	0.0580	n/a	BJ
S10V002249			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0591	<0.0657	n/a	n/a	n/a	n/a	0.0657	n/a	U
S10V002249			79-01-6	Trichloroethene	ug/L	99.8	<0.0378	<0.0420	n/a	n/a	n/a	n/a	0.0420	n/a	U
S10V002249			75-01-4	Vinyl chloride	ug/L	n/a	<0.0486	<0.0540	n/a	n/a	n/a	n/a	0.0540	n/a	U
S10V002249			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.0582	<0.0647	n/a	n/a	n/a	n/a	0.0647	n/a	U
S10V002249			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.0752	<0.0836	n/a	n/a	n/a	n/a	0.0836	n/a	U
S10V002249			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.0396	<0.0440	n/a	n/a	n/a	n/a	0.0440	n/a	U
S10V002249			79-46-9	2-Nitropropane	ug/L	n/a	<0.265	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S10V002249			141-78-6	Ethyl acetate	ug/L	n/a	<0.183	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S10V002249			60-29-7	Diethyl ether	ug/L	n/a	<0.0423	<0.0470	n/a	n/a	n/a	n/a	0.0470	n/a	U

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Data Summary Report

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY9

Sample Depth: Field Blank 9

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002249			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.0458	<0.0509	n/a	n/a	n/a	n/a	0.0509	n/a	U
S10V002249			95-47-6	o-Xylene	ug/L	n/a	<0.0325	<0.0361	n/a	n/a	n/a	n/a	0.0361	n/a	U
S10V002249			179601-23-1	m,p-Xylene	ug/L	n/a	<0.0703	<0.0781	n/a	n/a	n/a	n/a	0.0781	n/a	U

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C - Blank Contamination

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J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL0

Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002280			%WATERA	%WATER-APD	%	n/a	n/a	4.880	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002280			57-12-5	Cyanide	ug/g	96.5	<0.0370	<2.66	<2.65	n/a	n/a	74.4	2.66	n/a	UN
S10V002280			7439-97-6	Mercury	ug/g	100	<1.00E-04	<9.16E-03	n/a	n/a	n/a	101	9.16E-03	n/a	U
S10V002280			PH	pH	unitless	n/a	n/a	9.37	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002280			12597-04-5	Sulfide	ug/g	95.5	<0.180	10.2	10.4	10.3	1.85	97.2	7.12	n/a	B
S10V002281			13966-00-2	Potassium-40	uCi/g	n/a	n/a	2.00E-05	n/a	n/a	n/a	n/a	7.73E-06	26.95	
S10V002281			10198-40-0	Cobalt-60	uCi/g	98.2	<3.92E-07	<4.11E-07	n/a	n/a	n/a	n/a	4.11E-07	n/a	U
S10V002281			14234-35-6	Antimony-125	uCi/g	n/a	<1.02E-06	<9.85E-07	n/a	n/a	n/a	n/a	9.85E-07	n/a	U
S10V002281			10045-97-3	Cesium-137	uCi/g	100	<5.19E-07	<5.66E-07	n/a	n/a	n/a	n/a	5.66E-07	n/a	U
S10V002281			14683-23-9	Europium-152	uCi/g	n/a	<1.88E-06	<1.90E-06	n/a	n/a	n/a	n/a	1.90E-06	n/a	U
S10V002281			15585-10-1	Europium-154	uCi/g	n/a	<1.08E-06	<1.22E-06	n/a	n/a	n/a	n/a	1.22E-06	n/a	U
S10V002281			14391-16-3	Europium-155	uCi/g	n/a	<9.28E-07	<1.03E-06	n/a	n/a	n/a	n/a	1.03E-06	n/a	U
S10V002281			14274-82-9	Thorium-228	uCi/g	n/a	<2.19E-05	<2.48E-05	n/a	n/a	n/a	n/a	2.48E-05	n/a	U
S10V002281			15065-10-8	Thorium-234	uCi/g	n/a	<1.82E-05	<1.97E-05	n/a	n/a	n/a	n/a	1.97E-05	n/a	U
S10V002281			15046-84-1	Iodine-129	uCi/g	111	<1.83E-07	<1.55E-07	n/a	n/a	n/a	n/a	1.55E-07	n/a	U
S10V002283		W	14762-75-5	Carbon-14	uCi/g	92.4	<1.33E-07	<1.39E-06	n/a	n/a	n/a	n/a	1.39E-06	n/a	U
S10V002283		W	10028-17-8	Tritium	uCi/g	94.7	<4.95E-06	<4.62E-06	n/a	n/a	n/a	n/a	4.62E-06	n/a	U
S10V002284		A	7440-36-0	Antimony	ug/g	99.9	<2.00E-04	0.207	0.191	0.199	8.07	81.1	9.43E-03	n/a	
S10V002285		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	65.7	<77.4	<77.4	n/a	n/a	n/a	n/a	77.4	n/a	U
S10V002285		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V002285		O	121-14-2	2,4-Dinitrotoluene	ug/kg	89.9	<38.1	<38.1	n/a	n/a	n/a	n/a	38.1	n/a	U
S10V002285		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U
S10V002285		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S10V002285		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.5	n/a	n/a	n/a	n/a	57.5	n/a	U
S10V002285		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.7	n/a	n/a	n/a	n/a	53.7	n/a	U
S10V002285		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.4	n/a	n/a	n/a	n/a	51.4	n/a	U
S10V002285		O	83-32-9	Acenaphthene	ug/kg	75.0	<17.6	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S10V002285		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S10V002285		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL0

Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002285		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.2	n/a	n/a	n/a	n/a	41.2	n/a	U
S10V002285		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<590	n/a	n/a	n/a	n/a	590	n/a	U
S10V002285		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.1	n/a	n/a	n/a	n/a	39.1	n/a	U
S10V002285		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S10V002285		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	69.6	<43.2	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S10V002285		O	95-57-8	2-Chlorophenol	ug/kg	73.2	<66.5	<66.5	n/a	n/a	n/a	n/a	66.5	n/a	U
S10V002285		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.4	n/a	n/a	n/a	n/a	81.4	n/a	U
S10V002285		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S10V002285		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<562	n/a	n/a	n/a	n/a	562	n/a	U
S10V002285		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S10V002285		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	66.9	<58.1	<58.1	n/a	n/a	n/a	n/a	58.1	n/a	U
S10V002285		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S10V002285		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.7	n/a	n/a	n/a	n/a	69.7	n/a	U
S10V002285		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<112	n/a	n/a	n/a	n/a	112	n/a	U
S10V002285		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S10V002285		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S10V002285		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.6	n/a	n/a	n/a	n/a	64.6	n/a	U
S10V002285		O	129-00-0	Pyrene	ug/kg	83.7	<62.9	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	U
S10V002285		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<65.0	n/a	n/a	n/a	n/a	65.0	n/a	U
S10V002285		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V002285		O	128-37-0	BHT	ug/kg	n/a	<236	<236	n/a	n/a	n/a	n/a	236	n/a	U
S10V002285		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V002285		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V002285		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<558	n/a	n/a	n/a	n/a	558	n/a	U
S10V002285		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V002285		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<460	n/a	n/a	n/a	n/a	460	n/a	U
S10V002286		W	16984-48-8	Fluoride	ug/g	98.6	<1.61E-03	1.96	n/a	n/a	n/a	n/a	0.0161	n/a	
S10V002286		W	GLYCOLAT	Glycolate	ug/g	98.0	<9.37E-03	<0.0935	n/a	n/a	n/a	n/a	0.0935	n/a	U
S10V002286		W	71-50-1	Acetate	ug/g	95.0	<6.04E-03	0.160	n/a	n/a	n/a	n/a	0.0603	n/a	B

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL0

Sample Depth: Surface

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002286	W	FORMATE	Formate	ug/g	99.0	<4.67E-03	0.168	n/a	n/a	n/a	n/a	0.0466	n/a	B
S10V002286	W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	36.3	n/a	n/a	n/a	n/a	0.0996	n/a	
S10V002286	W	14797-65-0	Nitrite	ug/g	97.3	<0.0192	0.963	n/a	n/a	n/a	n/a	0.192	n/a	B
S10V002286	W	14808-79-8	Sulfate	ug/g	99.3	<0.0187	11.8	n/a	n/a	n/a	n/a	0.187	n/a	
S10V002286	W	338-70-5	Oxalate	ug/g	99.8	<0.0231	2.10	n/a	n/a	n/a	n/a	0.231	n/a	B
S10V002286	W	24959-67-9	Bromide	ug/g	97.9	<0.0580	<0.579	n/a	n/a	n/a	n/a	0.579	n/a	U
S10V002286	W	14797-55-8	Nitrate	ug/g	98.3	<0.0208	53.0	n/a	n/a	n/a	n/a	0.208	n/a	
S10V002286	W	14265-44-2	Phosphate	ug/g	98.0	<0.0167	5.60	n/a	n/a	n/a	n/a	0.167	n/a	
S10V002288	A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	5.91E+03	5.99E+03	5.95E+03	1.33	1.31E+03	2.48	n/a	
S10V002288	A	7440-39-3	Barium	ug/g	102	<3.00E-03	76.6	75.9	76.3	0.930	95.1	0.248	n/a	
S10V002288	A	7440-41-7	Beryllium	ug/g	106	<1.00E-03	0.203	0.217	0.210	6.70	94.5	0.0825	n/a	B
S10V002288	A	7440-70-2	Calcium	ug/g	91.9	<0.0500	1.05E+04	1.18E+04	1.11E+04	12.0	2.06E+03	4.13	n/a	
S10V002288	A	7440-45-1	Cerium	ug/g	101	<0.0300	18.0	18.8	18.4	4.70	105	2.48	n/a	B
S10V002288	A	7440-48-4	Cobalt	ug/g	98.4	0.0122	7.11	6.84	6.98	3.89	96.7	0.825	n/a	B
S10V002288	A	7440-47-3	Chromium	ug/g	97.7	<5.00E-03	7.25	7.81	7.53	7.49	96.3	0.413	n/a	
S10V002288	A	7440-50-8	Copper	ug/g	102	<5.00E-03	10.8	11.4	11.1	4.85	98.7	0.413	n/a	
S10V002288	A	7439-89-6	Iron	ug/g	98.2	5.24E-03	1.57E+04	1.66E+04	1.61E+04	5.50	2.36E+03	0.413	n/a	
S10V002288	A	7440-09-7	Potassium	ug/g	89.7	<0.500	1.26E+03	1.34E+03	1.30E+03	5.87	216	41.3	n/a	
S10V002288	A	7439-91-0	Lanthanum	ug/g	102	<3.00E-03	8.16	7.99	8.08	2.06	94.1	0.248	n/a	
S10V002288	A	7439-93-2	Lithium	ug/g	108	<3.00E-03	7.56	7.86	7.71	3.87	102	0.248	n/a	
S10V002288	A	7439-95-4	Magnesium	ug/g	95.5	<0.0500	4.62E+03	4.83E+03	4.73E+03	4.37	666	4.13	n/a	
S10V002288	A	7439-96-5	Manganese	ug/g	97.0	<3.00E-03	317	317	317	0.262	83.8	0.248	n/a	
S10V002288	A	7439-98-7	Molybdenum	ug/g	108	<0.0200	<1.65	<1.66	n/a	n/a	86.2	1.65	n/a	U
S10V002288	A	7440-23-5	Sodium	ug/g	107	<0.100	625	642	633	2.71	234	8.25	n/a	
S10V002288	A	7440-02-0	Nickel	ug/g	95.7	<0.0200	8.33	8.32	8.33	0.0979	97.6	1.65	n/a	B
S10V002288	A	7723-14-0	Phosphorus	ug/g	106	<0.0500	775	781	778	0.782	6.75	4.13	n/a	
S10V002288	A	7704-34-9	Sulfur	ug/g	106	<0.100	71.5	75.6	73.6	5.59	95.3	8.25	n/a	B
S10V002288	A	7440-21-3	Silicon	ug/g	89.3	<0.0300	77.7	74.6	76.1	4.06	95.1	2.48	n/a	
S10V002288	A	7440-24-6	Strontium	ug/g	102	<3.00E-03	25.4	27.2	26.3	6.53	98.6	0.248	n/a	

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C - Blank Contamination

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N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL0

Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002288		A	7440-32-6	Titanium	ug/g	107	<5.00E-03	635	653	644	2.67	397	0.413	n/a	
S10V002288		A	7440-62-2	Vanadium	ug/g	100	<5.00E-03	25.2	27.6	26.4	9.02	104	0.413	n/a	
S10V002288		A	7440-65-5	Yttrium	ug/g	93.7	<2.00E-03	8.09	8.00	8.04	1.14	96.5	0.165	n/a	
S10V002288		A	7440-66-6	Zinc	ug/g	96.7	<5.00E-03	34.4	36.5	35.5	5.90	99.6	0.413	n/a	
S10V002288		A	7440-67-7	Zirconium	ug/g	105	<5.00E-03	9.31	8.86	9.08	4.98	50.4	0.413	n/a	N
S10V002288		A	14269-63-7	Thorium-230	ug/g	n/a	5.21E-06	<2.81E-05	n/a	n/a	n/a	n/a	2.81E-05	n/a	U
S10V002288		A	TH-232	Thorium-232	ug/g	104	<2.00E-04	3.43	n/a	n/a	n/a	n/a	2.01E-03	n/a	
S10V002288		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.88E-04	n/a	n/a	n/a	n/a	4.01E-05	n/a	
S10V002288		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.01E-05	n/a	n/a	n/a	n/a	2.01E-05	n/a	U
S10V002288		A	15117-96-1	Uranium-235	ug/g	94.8	<4.00E-06	3.01E-03	n/a	n/a	n/a	n/a	4.01E-05	n/a	
S10V002288		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.60E-05	n/a	n/a	n/a	n/a	1.60E-05	n/a	U
S10V002288		A	13994-20-2	Neptunium-237	ug/g	102	<4.00E-05	<4.01E-04	n/a	n/a	n/a	n/a	4.01E-04	n/a	U
S10V002288		A	U-238	Uranium-238	ug/g	104	<2.00E-04	0.446	n/a	n/a	n/a	n/a	2.01E-03	n/a	
S10V002290		S	14798-03-9	Ammonium	ug/g	101	0.0486	10.5	13.1	11.8	21.9	98.6	0.477	n/a	
S10V002291		A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<3.00E-04	n/a	n/a	n/a	n/a	3.00E-04	n/a	U
S10V002291		A	SN-117	Tin-117	ug/g	102	<1.00E-03	0.0110	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002291		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	4.11E-04	n/a	n/a	n/a	n/a	2.00E-04	n/a	BE
S10V002294		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.19E-07	<1.70E-07	n/a	n/a	n/a	n/a	1.70E-07	n/a	U
S10V002294		E	14596-10-2	Americium-241	uCi/g	103	<5.46E-07	<4.24E-07	n/a	n/a	n/a	n/a	4.24E-07	n/a	U
S10V002294		E	15510-73-3	Curium-242	uCi/g	n/a	<2.19E-07	<1.70E-07	n/a	n/a	n/a	n/a	1.70E-07	n/a	U
S10V002294		E	PU-239/240	Plutonium-239/240	uCi/g	98.9	<5.46E-07	<2.98E-07	n/a	n/a	n/a	n/a	2.98E-07	n/a	U
S10V002294		E	13981-16-3	Plutonium-238	uCi/g	n/a	<5.46E-07	<2.98E-07	n/a	n/a	n/a	n/a	2.98E-07	n/a	U
S10V002301		E	SR-89/90	Strontium-89/90	uCi/g	101	<2.09E-07	<6.20E-07	n/a	n/a	n/a	n/a	6.20E-07	n/a	U
S10V002303		E	13981-37-8	Nickel-63	uCi/g	90.8	<3.89E-06	<4.65E-06	n/a	n/a	n/a	n/a	4.65E-06	n/a	U
S10V002303		E	15758-45-9	Selenium-79	uCi/g	n/a	<2.73E-06	<1.97E-06	n/a	n/a	n/a	n/a	1.97E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL0 WE

Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002282		WV	14133-76-7	Technetium-99	ug/g	110	<3.00E-06	<2.95E-06	n/a	n/a	n/a	n/a	2.95E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JM0

Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002273			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0835	n/a	n/a	n/a	n/a	0.0835	n/a	U
S10V002273			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S10V002273			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.192	n/a	n/a	n/a	n/a	0.192	n/a	U
S10V002273			75-35-4	1,1-Dichloroethene	ug/kg	105	<0.423	<0.384	n/a	n/a	n/a	122	0.384	n/a	U
S10V002273			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0488	n/a	n/a	n/a	n/a	0.0488	n/a	U
S10V002273			71-36-3	1-Butanol	ug/kg	112	<10.3	<9.34	n/a	n/a	n/a	106	9.34	n/a	U
S10V002273			108-10-1	Hexone	ug/kg	105	<1.71	<1.55	n/a	n/a	n/a	109	1.55	n/a	U
S10V002273			67-64-1	Acetone	ug/kg	91.5	<2.20	<2.00	n/a	n/a	n/a	99.8	2.00	n/a	U
S10V002273			71-43-2	Benzene	ug/kg	106	<0.147	<0.134	n/a	n/a	n/a	103	0.134	n/a	U
S10V002273			75-15-0	Carbon disulfide	ug/kg	n/a	0.801	<0.146	n/a	n/a	n/a	n/a	0.146	n/a	U
S10V002273			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0848	n/a	n/a	n/a	n/a	0.0848	n/a	U
S10V002273			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U
S10V002273			108-90-7	Chlorobenzene	ug/kg	101	<0.0864	<0.0784	n/a	n/a	n/a	100	0.0784	n/a	U
S10V002273			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0973	n/a	n/a	n/a	n/a	0.0973	n/a	U
S10V002273			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.184	n/a	n/a	n/a	n/a	0.184	n/a	U
S10V002273			78-93-3	2-Butanone	ug/kg	102	<1.96	<1.78	n/a	n/a	n/a	112	1.78	n/a	U
S10V002273			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0581	n/a	n/a	n/a	n/a	0.0581	n/a	U
S10V002273			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.0996	n/a	n/a	n/a	n/a	0.0996	n/a	U
S10V002273			100-42-5	Styrene	ug/kg	n/a	0.348	0.430	n/a	n/a	n/a	n/a	0.115	n/a	BJ
S10V002273			108-88-3	Toluene	ug/kg	103	0.159	0.386	n/a	n/a	n/a	97.5	0.0728	n/a	BJ
S10V002273			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.246	n/a	n/a	n/a	n/a	0.246	n/a	U
S10V002273			79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.110	n/a	n/a	n/a	106	0.110	n/a	U
S10V002273			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.157	n/a	n/a	n/a	n/a	0.157	n/a	U
S10V002273			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U
S10V002273			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.275	n/a	n/a	n/a	n/a	0.275	n/a	U
S10V002273			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.105	n/a	n/a	n/a	n/a	0.105	n/a	U
S10V002273			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.534	n/a	n/a	n/a	n/a	0.534	n/a	U
S10V002273			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.533	n/a	n/a	n/a	n/a	0.533	n/a	U
S10V002273			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.232	n/a	n/a	n/a	n/a	0.232	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JM0

Sample Depth: Surface

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002273			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0853	n/a	n/a	n/a	n/a	0.0853	n/a	U
S10V002273			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0835	n/a	n/a	n/a	n/a	0.0835	n/a	U
S10V002273			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.152	n/a	n/a	n/a	n/a	0.152	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL1

Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002309			%WATERA	%WATER-APD	%	n/a	n/a	4.960	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002309			57-12-5	Cyanide	ug/g	96.5	<0.0370	<2.60	n/a	n/a	n/a	n/a	2.60	n/a	UN
S10V002309			7439-97-6	Mercury	ug/g	100	<1.00E-04	<8.75E-03	n/a	n/a	n/a	n/a	8.75E-03	n/a	U
S10V002309			PH	pH	unitless	n/a	n/a	9.64	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002309			12597-04-5	Sulfide	ug/g	95.5	<0.180	13.3	n/a	n/a	n/a	n/a	7.08	n/a	B
S10V002310			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.53E-05	n/a	n/a	n/a	n/a	9.16E-06	39.31	
S10V002310			10198-40-0	Cobalt-60	uCi/g	98.2	<3.92E-07	<4.46E-07	n/a	n/a	n/a	n/a	4.46E-07	n/a	U
S10V002310			14234-35-6	Antimony-125	uCi/g	n/a	<1.02E-06	<1.17E-06	n/a	n/a	n/a	n/a	1.17E-06	n/a	U
S10V002310			10045-97-3	Cesium-137	uCi/g	100	<5.19E-07	<6.44E-07	n/a	n/a	n/a	n/a	6.44E-07	n/a	U
S10V002310			14683-23-9	Europium-152	uCi/g	n/a	<1.88E-06	<2.03E-06	n/a	n/a	n/a	n/a	2.03E-06	n/a	U
S10V002310			15585-10-1	Europium-154	uCi/g	n/a	<1.08E-06	<1.29E-06	n/a	n/a	n/a	n/a	1.29E-06	n/a	U
S10V002310			14391-16-3	Europium-155	uCi/g	n/a	<9.28E-07	<1.15E-06	n/a	n/a	n/a	n/a	1.15E-06	n/a	U
S10V002310			14274-82-9	Thorium-228	uCi/g	n/a	<2.19E-05	<2.73E-05	n/a	n/a	n/a	n/a	2.73E-05	n/a	U
S10V002310			15065-10-8	Thorium-234	uCi/g	n/a	<1.82E-05	<2.11E-05	n/a	n/a	n/a	n/a	2.11E-05	n/a	U
S10V002310			15046-84-1	Iodine-129	uCi/g	111	<1.83E-07	<1.54E-07	n/a	n/a	n/a	n/a	1.54E-07	n/a	U
S10V002312	W		14762-75-5	Carbon-14	uCi/g	92.4	<1.33E-07	<1.32E-06	n/a	n/a	n/a	n/a	1.32E-06	n/a	U
S10V002312	W		10028-17-8	Tritium	uCi/g	94.7	<4.95E-06	2.91E-06	n/a	n/a	n/a	n/a	2.51E-06	167.854	
S10V002313	A		7440-36-0	Antimony	ug/g	99.9	<2.00E-04	0.218	n/a	n/a	n/a	n/a	9.50E-03	n/a	
S10V002314	O		120-82-1	1,2,4-Trichlorobenzene	ug/kg	65.7	<77.4	<77.1	n/a	n/a	n/a	63.3	77.1	n/a	U
S10V002314	O		95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S10V002314	O		121-14-2	2,4-Dinitrotoluene	ug/kg	89.9	<38.1	<37.9	n/a	n/a	n/a	86.1	37.9	n/a	U
S10V002314	O		95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.8	n/a	n/a	n/a	n/a	43.8	n/a	U
S10V002314	O		88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S10V002314	O		95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.3	n/a	n/a	n/a	n/a	57.3	n/a	U
S10V002314	O		88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.5	n/a	n/a	n/a	n/a	53.5	n/a	U
S10V002314	O		65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S10V002314	O		83-32-9	Acenaphthene	ug/kg	75.0	<17.6	<17.5	n/a	n/a	n/a	72.6	17.5	n/a	U
S10V002314	O		56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S10V002314	O		205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL1

Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002314	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S10V002314	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<588	n/a	n/a	n/a	n/a	588	n/a	U
S10V002314	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S10V002314	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S10V002314	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	69.6	<43.2	<43.0	n/a	n/a	n/a	63.5	43.0	n/a	U
S10V002314	O	95-57-8	2-Chlorophenol	ug/kg	73.2	<66.5	<66.2	n/a	n/a	n/a	70.9	66.2	n/a	U
S10V002314	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.1	n/a	n/a	n/a	n/a	81.1	n/a	U
S10V002314	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S10V002314	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<560	n/a	n/a	n/a	n/a	560	n/a	U
S10V002314	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.5	n/a	n/a	n/a	n/a	47.5	n/a	U
S10V002314	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	66.9	<58.1	<57.9	n/a	n/a	n/a	64.5	57.9	n/a	U
S10V002314	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S10V002314	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.4	n/a	n/a	n/a	n/a	69.4	n/a	U
S10V002314	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V002314	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V002314	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.3	n/a	n/a	n/a	n/a	62.3	n/a	U
S10V002314	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S10V002314	O	129-00-0	Pyrene	ug/kg	83.7	<62.9	<62.6	n/a	n/a	n/a	75.1	62.6	n/a	U
S10V002314	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.7	n/a	n/a	n/a	n/a	64.7	n/a	U
S10V002314	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V002314	O	128-37-0	BHT	ug/kg	n/a	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S10V002314	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V002314	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V002314	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V002314	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S10V002314	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<458	n/a	n/a	n/a	n/a	458	n/a	U
S10V002315	W	16984-48-8	Fluoride	ug/g	98.6	<1.61E-03	2.10	1.58	1.84	28.7	93.3	0.0159	n/a	
S10V002315	W	GLYCOLAT	Glycolate	ug/g	98.0	<9.37E-03	<0.0927	<0.0926	n/a	n/a	93.6	0.0927	n/a	U
S10V002315	W	71-50-1	Acetate	ug/g	95.0	<6.04E-03	0.258	<0.0597	n/a	n/a	92.1	0.0597	n/a	B

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL1

Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002315		W	FORMATE	Formate	ug/g	99.0	<4.67E-03	0.237	<0.0461	n/a	n/a	94.1	0.0462	n/a	B
S10V002315		W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	32.8	34.7	33.8	5.67	87.0	0.592	n/a	
S10V002315		W	14797-65-0	Nitrite	ug/g	97.3	<0.0192	1.21	<0.190	n/a	n/a	94.3	0.190	n/a	B
S10V002315		W	14808-79-8	Sulfate	ug/g	99.3	<0.0187	11.8	10.5	11.2	11.7	95.4	0.185	n/a	
S10V002315		W	338-70-5	Oxalate	ug/g	99.8	<0.0231	3.14	0.570	1.86	139	92.5	0.228	n/a	
S10V002315		W	24959-67-9	Bromide	ug/g	97.9	<0.0580	<0.574	<0.573	n/a	n/a	95.2	0.574	n/a	U
S10V002315		W	14797-55-8	Nitrate	ug/g	98.3	<0.0208	54.6	55.9	55.2	2.23	94.9	0.206	n/a	
S10V002315		W	14265-44-2	Phosphate	ug/g	98.0	<0.0167	5.74	5.47	5.60	4.77	78.4	0.165	n/a	
S10V002316		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.10E+03	n/a	n/a	n/a	n/a	2.47	n/a	
S10V002316		A	7440-39-3	Barium	ug/g	102	<3.00E-03	82.2	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002316		A	7440-41-7	Beryllium	ug/g	106	<1.00E-03	0.212	n/a	n/a	n/a	n/a	0.0823	n/a	B
S10V002316		A	7440-70-2	Calcium	ug/g	91.9	<0.0500	1.50E+04	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002316		A	7440-45-1	Cerium	ug/g	101	<0.0300	19.6	n/a	n/a	n/a	n/a	2.47	n/a	B
S10V002316		A	7440-48-4	Cobalt	ug/g	98.4	0.0122	7.85	n/a	n/a	n/a	n/a	0.823	n/a	B
S10V002316		A	7440-47-3	Chromium	ug/g	97.7	<5.00E-03	7.55	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002316		A	7440-50-8	Copper	ug/g	102	<5.00E-03	11.8	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002316		A	7439-89-6	Iron	ug/g	98.2	5.24E-03	1.63E+04	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002316		A	7440-09-7	Potassium	ug/g	89.7	<0.500	1.29E+03	n/a	n/a	n/a	n/a	41.2	n/a	
S10V002316		A	7439-91-0	Lanthanum	ug/g	102	<3.00E-03	8.32	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002316		A	7439-93-2	Lithium	ug/g	108	<3.00E-03	8.01	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002316		A	7439-95-4	Magnesium	ug/g	95.5	<0.0500	5.10E+03	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002316		A	7439-96-5	Manganese	ug/g	97.0	<3.00E-03	332	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002316		A	7439-98-7	Molybdenum	ug/g	108	<0.0200	<1.65	n/a	n/a	n/a	n/a	1.65	n/a	U
S10V002316		A	7440-23-5	Sodium	ug/g	107	<0.100	602	n/a	n/a	n/a	n/a	8.23	n/a	
S10V002316		A	7440-02-0	Nickel	ug/g	95.7	<0.0200	9.61	n/a	n/a	n/a	n/a	1.65	n/a	B
S10V002316		A	7723-14-0	Phosphorus	ug/g	106	<0.0500	781	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002316		A	7704-34-9	Sulfur	ug/g	106	<0.100	84.4	n/a	n/a	n/a	n/a	8.23	n/a	
S10V002316		A	7440-21-3	Silicon	ug/g	89.3	<0.0300	73.9	n/a	n/a	n/a	n/a	2.47	n/a	
S10V002316		A	7440-24-6	Strontium	ug/g	102	<3.00E-03	30.5	n/a	n/a	n/a	n/a	0.247	n/a	

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL1

Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002316		A	7440-32-6	Titanium	ug/g	107	<5.00E-03	685	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002316		A	7440-62-2	Vanadium	ug/g	100	<5.00E-03	27.0	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002316		A	7440-65-5	Yttrium	ug/g	93.7	<2.00E-03	8.34	n/a	n/a	n/a	n/a	0.165	n/a	
S10V002316		A	7440-66-6	Zinc	ug/g	96.7	<5.00E-03	36.4	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002316		A	7440-67-7	Zirconium	ug/g	105	<5.00E-03	7.95	n/a	n/a	n/a	n/a	0.412	n/a	N
S10V002316		A	14269-63-7	Thorium-230	ug/g	n/a	5.21E-06	<2.79E-05	n/a	n/a	n/a	n/a	2.79E-05	n/a	U
S10V002316		A	TH-232	Thorium-232	ug/g	104	<2.00E-04	3.87	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002316		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.64E-04	n/a	n/a	n/a	n/a	3.98E-05	n/a	
S10V002316		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<1.99E-05	n/a	n/a	n/a	n/a	1.99E-05	n/a	U
S10V002316		A	15117-96-1	Uranium-235	ug/g	94.8	<4.00E-06	3.76E-03	n/a	n/a	n/a	n/a	3.98E-05	n/a	
S10V002316		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.59E-05	n/a	n/a	n/a	n/a	1.59E-05	n/a	U
S10V002316		A	13994-20-2	Neptunium-237	ug/g	102	<4.00E-05	<3.98E-04	n/a	n/a	n/a	n/a	3.98E-04	n/a	U
S10V002316		A	U-238	Uranium-238	ug/g	104	<2.00E-04	0.573	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002317		S	14798-03-9	Ammonium	ug/g	101	0.0486	22.8	n/a	n/a	n/a	n/a	0.480	n/a	
S10V002318		A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.94E-04	n/a	n/a	n/a	n/a	2.94E-04	n/a	U
S10V002318		A	SN-117	Tin-117	ug/g	102	<1.00E-03	0.0107	n/a	n/a	n/a	n/a	9.82E-03	n/a	
S10V002318		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	7.91E-04	n/a	n/a	n/a	n/a	1.96E-04	n/a	BE
S10V002323		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.19E-07	<1.96E-07	n/a	n/a	n/a	n/a	1.96E-07	n/a	U
S10V002323		E	14596-10-2	Americium-241	uCi/g	103	<5.46E-07	<4.90E-07	n/a	n/a	n/a	n/a	4.90E-07	n/a	U
S10V002323		E	15510-73-3	Curium-242	uCi/g	n/a	<2.19E-07	<1.96E-07	n/a	n/a	n/a	n/a	1.96E-07	n/a	U
S10V002323		E	PU-239/240	Plutonium-239/240	uCi/g	98.9	<5.46E-07	<2.59E-07	n/a	n/a	n/a	n/a	2.59E-07	n/a	U
S10V002323		E	13981-16-3	Plutonium-238	uCi/g	n/a	<5.46E-07	<2.59E-07	n/a	n/a	n/a	n/a	2.59E-07	n/a	U
S10V002324		E	SR-89/90	Strontium-89/90	uCi/g	101	<2.09E-07	<2.05E-07	n/a	n/a	n/a	n/a	2.05E-07	n/a	U
S10V002325		E	13981-37-8	Nickel-63	uCi/g	90.8	<3.89E-06	<7.68E-06	n/a	n/a	n/a	n/a	7.68E-06	n/a	U
S10V002325		E	15758-45-9	Selenium-79	uCi/g	n/a	<2.73E-06	<1.38E-06	n/a	n/a	n/a	n/a	1.38E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL1 WE

Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002311		WV	14133-76-7	Technetium-99	ug/g	110	<3.00E-06	<2.97E-06	n/a	n/a	n/a	n/a	2.97E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JM1

Sample Depth: Surface Dup

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002306		71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0790	n/a	n/a	n/a	n/a	0.0790	n/a	UX
S10V002306		79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.142	n/a	n/a	n/a	n/a	0.142	n/a	UX
S10V002306		79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.182	n/a	n/a	n/a	n/a	0.182	n/a	UX
S10V002306		75-35-4	1,1-Dichloroethene	ug/kg	105	<0.423	<0.364	n/a	n/a	n/a	n/a	0.364	n/a	UX
S10V002306		107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0462	n/a	n/a	n/a	n/a	0.0462	n/a	UX
S10V002306		71-36-3	1-Butanol	ug/kg	112	<10.3	<8.84	n/a	n/a	n/a	n/a	8.84	n/a	UX
S10V002306		108-10-1	Hexone	ug/kg	105	<1.71	<1.47	n/a	n/a	n/a	n/a	1.47	n/a	UX
S10V002306		67-64-1	Acetone	ug/kg	91.5	<2.20	<1.89	n/a	n/a	n/a	n/a	1.89	n/a	UX
S10V002306		71-43-2	Benzene	ug/kg	106	<0.147	<0.127	n/a	n/a	n/a	n/a	0.127	n/a	UX
S10V002306		75-15-0	Carbon disulfide	ug/kg	n/a	0.801	<0.138	n/a	n/a	n/a	n/a	0.138	n/a	UX
S10V002306		56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0802	n/a	n/a	n/a	n/a	0.0802	n/a	UX
S10V002306		67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.112	n/a	n/a	n/a	n/a	0.112	n/a	UX
S10V002306		108-90-7	Chlorobenzene	ug/kg	101	<0.0864	<0.0742	n/a	n/a	n/a	n/a	0.0742	n/a	UX
S10V002306		100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0921	n/a	n/a	n/a	n/a	0.0921	n/a	UX
S10V002306		1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.175	n/a	n/a	n/a	n/a	0.175	n/a	UX
S10V002306		78-93-3	2-Butanone	ug/kg	102	<1.96	<1.69	n/a	n/a	n/a	n/a	1.69	n/a	UX
S10V002306		75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0550	n/a	n/a	n/a	n/a	0.0550	n/a	UX
S10V002306		127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.0943	n/a	n/a	n/a	n/a	0.0943	n/a	UX
S10V002306		108-88-3	Toluene	ug/kg	103	0.159	<0.0689	n/a	n/a	n/a	n/a	0.0689	n/a	UX
S10V002306		10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	UX
S10V002306		79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	UX
S10V002306		75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	UX
S10V002306		156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.156	n/a	n/a	n/a	n/a	0.156	n/a	UX
S10V002306		156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.260	n/a	n/a	n/a	n/a	0.260	n/a	UX
S10V002306		76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.0998	n/a	n/a	n/a	n/a	0.0998	n/a	UX
S10V002306		79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.505	n/a	n/a	n/a	n/a	0.505	n/a	UX
S10V002306		141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.504	n/a	n/a	n/a	n/a	0.504	n/a	UX
S10V002306		60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.220	n/a	n/a	n/a	n/a	0.220	n/a	UX
S10V002306		75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0808	n/a	n/a	n/a	n/a	0.0808	n/a	UX

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JM1

Sample Depth: Surface Dup

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002306			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0790	n/a	n/a	n/a	n/a	0.0790	n/a	UX
S10V002306			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	UX

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C47

Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002338			%WATERA	%WATER-APD	%	n/a	n/a	11.34	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002338			57-12-5	Cyanide	ug/g	96.5	<0.0370	<2.61	n/a	n/a	n/a	n/a	2.61	n/a	UN
S10V002338			7439-97-6	Mercury	ug/g	100	<1.00E-04	<9.75E-03	n/a	n/a	n/a	n/a	9.75E-03	n/a	U
S10V002338			PH	pH	unitless	n/a	n/a	9.10	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002338			12597-04-5	Sulfide	ug/g	95.5	<0.180	7.45	n/a	n/a	n/a	n/a	7.17	n/a	B
S10V002341			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.34E-05	n/a	n/a	n/a	n/a	8.22E-06	40.09	
S10V002341			10198-40-0	Cobalt-60	uCi/g	98.2	<3.92E-07	<4.03E-07	n/a	n/a	n/a	n/a	4.03E-07	n/a	U
S10V002341			14234-35-6	Antimony-125	uCi/g	n/a	<1.02E-06	<9.96E-07	n/a	n/a	n/a	n/a	9.96E-07	n/a	U
S10V002341			10045-97-3	Cesium-137	uCi/g	100	<5.19E-07	<5.39E-07	n/a	n/a	n/a	n/a	5.39E-07	n/a	U
S10V002341			14683-23-9	Europium-152	uCi/g	n/a	<1.88E-06	<1.91E-06	n/a	n/a	n/a	n/a	1.91E-06	n/a	U
S10V002341			15585-10-1	Europium-154	uCi/g	n/a	<1.08E-06	<1.24E-06	n/a	n/a	n/a	n/a	1.24E-06	n/a	U
S10V002341			14391-16-3	Europium-155	uCi/g	n/a	<9.28E-07	<1.03E-06	n/a	n/a	n/a	n/a	1.03E-06	n/a	U
S10V002341			14274-82-9	Thorium-228	uCi/g	n/a	<2.19E-05	<2.51E-05	n/a	n/a	n/a	n/a	2.51E-05	n/a	U
S10V002341			15065-10-8	Thorium-234	uCi/g	n/a	<1.82E-05	<2.05E-05	n/a	n/a	n/a	n/a	2.05E-05	n/a	U
S10V002341			15046-84-1	Iodine-129	uCi/g	113	<1.93E-07	<1.78E-07	<1.81E-07	n/a	n/a	n/a	1.78E-07	n/a	U
S10V002345	W		14762-75-5	Carbon-14	uCi/g	92.4	<1.33E-07	3.49E-06	n/a	n/a	n/a	n/a	1.30E-06	27.16	
S10V002345	W		10028-17-8	Tritium	uCi/g	94.7	<4.95E-06	<4.03E-06	n/a	n/a	n/a	n/a	4.03E-06	n/a	U
S10V002347	A		7440-36-0	Antimony	ug/g	99.9	<2.00E-04	0.420	n/a	n/a	n/a	n/a	9.40E-03	n/a	
S10V002349	O		120-82-1	1,2,4-Trichlorobenzene	ug/kg	65.7	<77.4	<77.0	n/a	n/a	n/a	n/a	77.0	n/a	U
S10V002349	O		95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S10V002349	O		121-14-2	2,4-Dinitrotoluene	ug/kg	89.9	<38.1	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S10V002349	O		95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.8	n/a	n/a	n/a	n/a	43.8	n/a	U
S10V002349	O		88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S10V002349	O		95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S10V002349	O		88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.4	n/a	n/a	n/a	n/a	53.4	n/a	U
S10V002349	O		65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S10V002349	O		83-32-9	Acenaphthene	ug/kg	75.0	<17.6	<17.5	n/a	n/a	n/a	n/a	17.5	n/a	U
S10V002349	O		56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S10V002349	O		205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C47

Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002349		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S10V002349		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<587	n/a	n/a	n/a	n/a	587	n/a	U
S10V002349		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.9	n/a	n/a	n/a	n/a	38.9	n/a	U
S10V002349		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S10V002349		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	69.6	<43.2	<43.0	n/a	n/a	n/a	n/a	43.0	n/a	U
S10V002349		O	95-57-8	2-Chlorophenol	ug/kg	73.2	<66.5	<66.2	n/a	n/a	n/a	n/a	66.2	n/a	U
S10V002349		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.0	n/a	n/a	n/a	n/a	81.0	n/a	U
S10V002349		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V002349		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<559	n/a	n/a	n/a	n/a	559	n/a	U
S10V002349		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.5	n/a	n/a	n/a	n/a	47.5	n/a	U
S10V002349		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	66.9	<58.1	<57.8	n/a	n/a	n/a	n/a	57.8	n/a	U
S10V002349		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.2	n/a	n/a	n/a	n/a	35.2	n/a	U
S10V002349		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.4	n/a	n/a	n/a	n/a	69.4	n/a	U
S10V002349		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V002349		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U
S10V002349		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.3	n/a	n/a	n/a	n/a	62.3	n/a	U
S10V002349		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S10V002349		O	129-00-0	Pyrene	ug/kg	83.7	<62.9	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S10V002349		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.7	n/a	n/a	n/a	n/a	64.7	n/a	U
S10V002349		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V002349		O	128-37-0	BHT	ug/kg	n/a	<236	<234	n/a	n/a	n/a	n/a	234	n/a	U
S10V002349		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<181	n/a	n/a	n/a	n/a	181	n/a	U
S10V002349		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V002349		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<555	n/a	n/a	n/a	n/a	555	n/a	U
S10V002349		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S10V002349		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<458	n/a	n/a	n/a	n/a	458	n/a	U
S10V002351		W	16984-48-8	Fluoride	ug/g	98.6	<1.61E-03	1.60	n/a	n/a	n/a	n/a	0.0161	n/a	
S10V002351		W	GLYCOLAT	Glycolate	ug/g	98.0	<9.37E-03	<0.0936	n/a	n/a	n/a	n/a	0.0936	n/a	U
S10V002351		W	71-50-1	Acetate	ug/g	95.0	<6.04E-03	<0.0603	n/a	n/a	n/a	n/a	0.0603	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C47

Sample Depth: 5-7

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002351	W	FORMATE	Formate	ug/g	99.0	<4.67E-03	<0.0466	n/a	n/a	n/a	n/a	0.0466	n/a	U
S10V002351	W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	18.2	n/a	n/a	n/a	n/a	0.0996	n/a	
S10V002351	W	14797-65-0	Nitrite	ug/g	97.3	<0.0192	<0.192	n/a	n/a	n/a	n/a	0.192	n/a	U
S10V002351	W	14808-79-8	Sulfate	ug/g	99.3	<0.0187	19.6	n/a	n/a	n/a	n/a	0.187	n/a	
S10V002351	W	338-70-5	Oxalate	ug/g	99.8	<0.0231	<0.231	n/a	n/a	n/a	n/a	0.231	n/a	U
S10V002351	W	24959-67-9	Bromide	ug/g	97.9	<0.0580	<0.579	n/a	n/a	n/a	n/a	0.579	n/a	U
S10V002351	W	14797-55-8	Nitrate	ug/g	98.3	<0.0208	23.8	n/a	n/a	n/a	n/a	0.208	n/a	
S10V002351	W	14265-44-2	Phosphate	ug/g	98.0	<0.0167	1.27	n/a	n/a	n/a	n/a	0.167	n/a	B
S10V002352	A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	5.64E+03	n/a	n/a	n/a	n/a	2.49	n/a	
S10V002352	A	7440-39-3	Barium	ug/g	102	<3.00E-03	71.0	n/a	n/a	n/a	n/a	0.249	n/a	
S10V002352	A	7440-41-7	Beryllium	ug/g	106	<1.00E-03	0.204	n/a	n/a	n/a	n/a	0.0831	n/a	B
S10V002352	A	7440-69-9	Bismuth	ug/g	96.6	<0.100	<8.31	n/a	n/a	n/a	n/a	8.31	n/a	U
S10V002352	A	7440-70-2	Calcium	ug/g	91.9	<0.0500	4.05E+03	n/a	n/a	n/a	n/a	4.16	n/a	
S10V002352	A	7440-45-1	Cerium	ug/g	101	<0.0300	18.2	n/a	n/a	n/a	n/a	2.49	n/a	B
S10V002352	A	7440-48-4	Cobalt	ug/g	98.4	0.0122	6.68	n/a	n/a	n/a	n/a	0.831	n/a	B
S10V002352	A	7440-47-3	Chromium	ug/g	97.7	<5.00E-03	7.71	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002352	A	7440-50-8	Copper	ug/g	102	<5.00E-03	11.9	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002352	A	7439-89-6	Iron	ug/g	98.2	5.24E-03	1.43E+04	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002352	A	7440-09-7	Potassium	ug/g	89.7	<0.500	981	n/a	n/a	n/a	n/a	41.6	n/a	
S10V002352	A	7439-91-0	Lanthanum	ug/g	102	<3.00E-03	7.93	n/a	n/a	n/a	n/a	0.249	n/a	
S10V002352	A	7439-93-2	Lithium	ug/g	108	<3.00E-03	6.57	n/a	n/a	n/a	n/a	0.249	n/a	
S10V002352	A	7439-95-4	Magnesium	ug/g	95.5	<0.0500	3.92E+03	n/a	n/a	n/a	n/a	4.16	n/a	
S10V002352	A	7439-96-5	Manganese	ug/g	97.0	<3.00E-03	270	n/a	n/a	n/a	n/a	0.249	n/a	
S10V002352	A	7439-98-7	Molybdenum	ug/g	108	<0.0200	<1.66	n/a	n/a	n/a	n/a	1.66	n/a	U
S10V002352	A	7440-23-5	Sodium	ug/g	107	<0.100	283	n/a	n/a	n/a	n/a	8.31	n/a	
S10V002352	A	7440-02-0	Nickel	ug/g	95.7	<0.0200	8.93	n/a	n/a	n/a	n/a	1.66	n/a	B
S10V002352	A	7723-14-0	Phosphorus	ug/g	106	<0.0500	706	n/a	n/a	n/a	n/a	4.16	n/a	
S10V002352	A	7704-34-9	Sulfur	ug/g	106	<0.100	48.9	n/a	n/a	n/a	n/a	8.31	n/a	B
S10V002352	A	7440-21-3	Silicon	ug/g	89.3	<0.0300	63.6	n/a	n/a	n/a	n/a	2.49	n/a	

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C - Blank Contamination
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J - Estimated
B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C47

Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002352		A	7440-24-6	Strontium	ug/g	102	<3.00E-03	21.5	n/a	n/a	n/a	n/a	0.249	n/a	
S10V002352		A	7440-32-6	Titanium	ug/g	107	<5.00E-03	537	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002352		A	7440-62-2	Vanadium	ug/g	100	<5.00E-03	24.5	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002352		A	7440-65-5	Yttrium	ug/g	93.7	<2.00E-03	7.23	n/a	n/a	n/a	n/a	0.166	n/a	
S10V002352		A	7440-66-6	Zinc	ug/g	96.7	<5.00E-03	29.5	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002352		A	7440-67-7	Zirconium	ug/g	105	<5.00E-03	8.82	n/a	n/a	n/a	n/a	0.416	n/a	N
S10V002352		A	14269-63-7	Thorium-230	ug/g	n/a	5.21E-06	<2.79E-05	n/a	n/a	n/a	n/a	2.79E-05	n/a	U
S10V002352		A	TH-232	Thorium-232	ug/g	104	<2.00E-04	3.44	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002352		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	2.04E-04	n/a	n/a	n/a	n/a	3.99E-05	n/a	
S10V002352		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<1.99E-05	n/a	n/a	n/a	n/a	1.99E-05	n/a	U
S10V002352		A	15117-96-1	Uranium-235	ug/g	94.8	<4.00E-06	2.97E-03	n/a	n/a	n/a	n/a	3.99E-05	n/a	
S10V002352		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.60E-05	n/a	n/a	n/a	n/a	1.60E-05	n/a	U
S10V002352		A	13994-20-2	Neptunium-237	ug/g	102	<4.00E-05	<3.99E-04	n/a	n/a	n/a	n/a	3.99E-04	n/a	U
S10V002352		A	U-238	Uranium-238	ug/g	104	<2.00E-04	0.475	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002352		A	7440-43-9	Cadmium	ug/g	104	<3.60E-03	0.196	n/a	n/a	n/a	n/a	0.0239	n/a	B
S10V002352		A	7439-92-1	Lead	ug/g	97.1	<6.00E-03	11.3	n/a	n/a	n/a	n/a	0.0598	n/a	
S10V002352		A	7440-28-0	Thallium	ug/g	103	<8.00E-04	0.180	n/a	n/a	n/a	n/a	0.0160	n/a	
S10V002353		S	14798-03-9	Ammonium	ug/g	101	0.410	8.85	n/a	n/a	n/a	n/a	0.477	n/a	
S10V002354		A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<3.00E-04	n/a	n/a	n/a	n/a	3.00E-04	n/a	U
S10V002354		A	SN-117	Tin-117	ug/g	102	<1.00E-03	0.0107	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002354		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	6.92E-04	n/a	n/a	n/a	n/a	2.00E-04	n/a	BE
S10V002355		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.19E-07	<1.84E-07	n/a	n/a	n/a	n/a	1.84E-07	n/a	U
S10V002355		E	14596-10-2	Americium-241	uCi/g	103	<5.46E-07	<4.60E-07	n/a	n/a	n/a	n/a	4.60E-07	n/a	U
S10V002355		E	15510-73-3	Curium-242	uCi/g	n/a	<2.19E-07	<1.84E-07	n/a	n/a	n/a	n/a	1.84E-07	n/a	U
S10V002355		E	PU-239/240	Plutonium-239/240	uCi/g	98.9	<5.46E-07	<2.92E-07	n/a	n/a	n/a	n/a	2.92E-07	n/a	U
S10V002355		E	13981-16-3	Plutonium-238	uCi/g	n/a	<5.46E-07	<2.92E-07	n/a	n/a	n/a	n/a	2.92E-07	n/a	U
S10V002356		E	SR-89/90	Strontium-89/90	uCi/g	101	<2.09E-07	<1.82E-07	n/a	n/a	n/a	n/a	1.82E-07	n/a	U
S10V002357		E	13981-37-8	Nickel-63	uCi/g	90.8	<3.89E-06	<4.32E-06	n/a	n/a	n/a	n/a	4.32E-06	n/a	U
S10V002357		E	15758-45-9	Selenium-79	uCi/g	n/a	<2.73E-06	<2.64E-06	n/a	n/a	n/a	n/a	2.64E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C47 WE

Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002343		WV	14133-76-7	Technetium-99	ug/g	110	<3.00E-06	<3.40E-06	n/a	n/a	n/a	n/a	3.40E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C48

Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002327			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0784	n/a	n/a	n/a	n/a	0.0784	n/a	U
S10V002327			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.141	n/a	n/a	n/a	n/a	0.141	n/a	U
S10V002327			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.180	n/a	n/a	n/a	n/a	0.180	n/a	U
S10V002327			75-35-4	1,1-Dichloroethene	ug/kg	105	<0.423	<0.360	n/a	n/a	n/a	n/a	0.360	n/a	U
S10V002327			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0458	n/a	n/a	n/a	n/a	0.0458	n/a	U
S10V002327			71-36-3	1-Butanol	ug/kg	112	<10.3	<8.77	n/a	n/a	n/a	n/a	8.77	n/a	U
S10V002327			108-10-1	Hexone	ug/kg	105	<1.71	<1.45	n/a	n/a	n/a	n/a	1.45	n/a	U
S10V002327			67-64-1	Acetone	ug/kg	91.5	<2.20	<1.87	n/a	n/a	n/a	n/a	1.87	n/a	U
S10V002327			71-43-2	Benzene	ug/kg	106	<0.147	<0.126	n/a	n/a	n/a	n/a	0.126	n/a	U
S10V002327			75-15-0	Carbon disulfide	ug/kg	n/a	0.801	<0.137	n/a	n/a	n/a	n/a	0.137	n/a	U
S10V002327			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0796	n/a	n/a	n/a	n/a	0.0796	n/a	U
S10V002327			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S10V002327			108-90-7	Chlorobenzene	ug/kg	101	<0.0864	<0.0736	n/a	n/a	n/a	n/a	0.0736	n/a	U
S10V002327			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0913	n/a	n/a	n/a	n/a	0.0913	n/a	U
S10V002327			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.173	n/a	n/a	n/a	n/a	0.173	n/a	U
S10V002327			78-93-3	2-Butanone	ug/kg	102	<1.96	<1.67	n/a	n/a	n/a	n/a	1.67	n/a	U
S10V002327			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0545	n/a	n/a	n/a	n/a	0.0545	n/a	U
S10V002327			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.0935	n/a	n/a	n/a	n/a	0.0935	n/a	U
S10V002327			100-42-5	Styrene	ug/kg	n/a	0.348	0.326	n/a	n/a	n/a	n/a	0.108	n/a	BJ
S10V002327			108-88-3	Toluene	ug/kg	103	0.159	0.308	n/a	n/a	n/a	n/a	0.0683	n/a	BJ
S10V002327			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.231	n/a	n/a	n/a	n/a	0.231	n/a	U
S10V002327			79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.103	n/a	n/a	n/a	n/a	0.103	n/a	U
S10V002327			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.148	n/a	n/a	n/a	n/a	0.148	n/a	U
S10V002327			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.155	n/a	n/a	n/a	n/a	0.155	n/a	U
S10V002327			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.258	n/a	n/a	n/a	n/a	0.258	n/a	U
S10V002327			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.0990	n/a	n/a	n/a	n/a	0.0990	n/a	U
S10V002327			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.501	n/a	n/a	n/a	n/a	0.501	n/a	U
S10V002327			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S10V002327			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.218	n/a	n/a	n/a	n/a	0.218	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C48

Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002327			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0801	n/a	n/a	n/a	n/a	0.0801	n/a	U
S10V002327			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0784	n/a	n/a	n/a	n/a	0.0784	n/a	U
S10V002327			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.143	n/a	n/a	n/a	n/a	0.143	n/a	U

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B - Blank Contamination
C - Blank Contamination

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J - Estimated

B - Estimated
N - MS/MSD Outside Range

Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C50

Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002358			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0931	n/a	n/a	n/a	n/a	0.0931	n/a	U
S10V002358			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.168	n/a	n/a	n/a	n/a	0.168	n/a	U
S10V002358			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.214	n/a	n/a	n/a	n/a	0.214	n/a	U
S10V002358			75-35-4	1,1-Dichloroethene	ug/kg	105	<0.423	<0.428	n/a	n/a	n/a	n/a	0.428	n/a	U
S10V002358			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0545	n/a	n/a	n/a	n/a	0.0545	n/a	U
S10V002358			71-36-3	1-Butanol	ug/kg	112	<10.3	<10.4	n/a	n/a	n/a	n/a	10.4	n/a	U
S10V002358			108-10-1	Hexone	ug/kg	105	<1.71	<1.73	n/a	n/a	n/a	n/a	1.73	n/a	U
S10V002358			67-64-1	Acetone	ug/kg	91.5	<2.20	<2.23	n/a	n/a	n/a	n/a	2.23	n/a	U
S10V002358			71-43-2	Benzene	ug/kg	106	<0.147	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S10V002358			75-15-0	Carbon disulfide	ug/kg	n/a	0.801	<0.163	n/a	n/a	n/a	n/a	0.163	n/a	U
S10V002358			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0945	n/a	n/a	n/a	n/a	0.0945	n/a	U
S10V002358			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.132	n/a	n/a	n/a	n/a	0.132	n/a	U
S10V002358			108-90-7	Chlorobenzene	ug/kg	101	<0.0864	<0.0874	n/a	n/a	n/a	n/a	0.0874	n/a	U
S10V002358			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.108	n/a	n/a	n/a	n/a	0.108	n/a	U
S10V002358			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.206	n/a	n/a	n/a	n/a	0.206	n/a	U
S10V002358			78-93-3	2-Butanone	ug/kg	102	<1.96	<1.99	n/a	n/a	n/a	n/a	1.99	n/a	U
S10V002358			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0648	n/a	n/a	n/a	n/a	0.0648	n/a	U
S10V002358			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S10V002358			100-42-5	Styrene	ug/kg	n/a	0.348	0.359	n/a	n/a	n/a	n/a	0.128	n/a	BJ
S10V002358			108-88-3	Toluene	ug/kg	103	0.159	0.347	n/a	n/a	n/a	n/a	0.0812	n/a	BJ
S10V002358			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.274	n/a	n/a	n/a	n/a	0.274	n/a	U
S10V002358			79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S10V002358			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.176	n/a	n/a	n/a	n/a	0.176	n/a	U
S10V002358			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.184	n/a	n/a	n/a	n/a	0.184	n/a	U
S10V002358			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.307	n/a	n/a	n/a	n/a	0.307	n/a	U
S10V002358			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.118	n/a	n/a	n/a	n/a	0.118	n/a	U
S10V002358			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.595	n/a	n/a	n/a	n/a	0.595	n/a	U
S10V002358			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.594	n/a	n/a	n/a	n/a	0.594	n/a	U
S10V002358			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.259	n/a	n/a	n/a	n/a	0.259	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C50

Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002358			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0951	n/a	n/a	n/a	n/a	0.0951	n/a	U
S10V002358			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0931	n/a	n/a	n/a	n/a	0.0931	n/a	U
S10V002358			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.169	n/a	n/a	n/a	n/a	0.169	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C51

Sample Depth: 12-14

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002391			%WATERA	%WATER-APD	%	n/a	n/a	6.350	5.850	6.100	8.197	n/a	0.01000	n/a	
S10V002391			57-12-5	Cyanide	ug/g	96.5	<0.0370	<2.66	n/a	n/a	n/a	n/a	2.66	n/a	UN
S10V002391			7439-97-6	Mercury	ug/g	100	<1.00E-04	<8.96E-03	n/a	n/a	n/a	n/a	8.96E-03	n/a	U
S10V002391			PH	pH	unitless	n/a	n/a	9.26	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002391			12597-04-5	Sulfide	ug/g	95.5	<0.180	8.98	n/a	n/a	n/a	n/a	7.15	n/a	B
S10V002392			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.17E-05	n/a	n/a	n/a	n/a	7.76E-06	43.25	
S10V002392			10198-40-0	Cobalt-60	uCi/g	98.2	<3.92E-07	<3.66E-07	n/a	n/a	n/a	n/a	3.66E-07	n/a	U
S10V002392			14234-35-6	Antimony-125	uCi/g	n/a	<1.02E-06	<1.03E-06	n/a	n/a	n/a	n/a	1.03E-06	n/a	U
S10V002392			10045-97-3	Cesium-137	uCi/g	100	<5.19E-07	<5.26E-07	n/a	n/a	n/a	n/a	5.26E-07	n/a	U
S10V002392			14683-23-9	Europium-152	uCi/g	n/a	<1.88E-06	<2.00E-06	n/a	n/a	n/a	n/a	2.00E-06	n/a	U
S10V002392			15585-10-1	Europium-154	uCi/g	n/a	<1.08E-06	<1.29E-06	n/a	n/a	n/a	n/a	1.29E-06	n/a	U
S10V002392			14391-16-3	Europium-155	uCi/g	n/a	<9.28E-07	<9.87E-07	n/a	n/a	n/a	n/a	9.87E-07	n/a	U
S10V002392			14274-82-9	Thorium-228	uCi/g	n/a	<2.19E-05	<2.54E-05	n/a	n/a	n/a	n/a	2.54E-05	n/a	U
S10V002392			15065-10-8	Thorium-234	uCi/g	n/a	<1.82E-05	<1.94E-05	n/a	n/a	n/a	n/a	1.94E-05	n/a	U
S10V002392			15046-84-1	Iodine-129	uCi/g	113	<1.93E-07	<1.57E-07	n/a	n/a	n/a	n/a	1.57E-07	n/a	U
S10V002394	W		14762-75-5	Carbon-14	uCi/g	92.4	<1.33E-07	<1.31E-06	n/a	n/a	n/a	n/a	1.31E-06	n/a	U
S10V002394	W		10028-17-8	Tritium	uCi/g	94.7	<4.95E-06	2.93E-06	n/a	n/a	n/a	n/a	2.50E-06	151.808	
S10V002395	A		7440-36-0	Antimony	ug/g	99.9	<2.00E-04	0.110	n/a	n/a	n/a	n/a	9.36E-03	n/a	
S10V002396	O		120-82-1	1,2,4-Trichlorobenzene	ug/kg	65.7	<77.4	<77.4	n/a	n/a	n/a	n/a	77.4	n/a	U
S10V002396	O		95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<101	n/a	n/a	n/a	n/a	101	n/a	U
S10V002396	O		121-14-2	2,4-Dinitrotoluene	ug/kg	89.9	<38.1	<38.1	n/a	n/a	n/a	n/a	38.1	n/a	U
S10V002396	O		95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<44.0	n/a	n/a	n/a	n/a	44.0	n/a	U
S10V002396	O		88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S10V002396	O		95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.5	n/a	n/a	n/a	n/a	57.5	n/a	U
S10V002396	O		88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.7	n/a	n/a	n/a	n/a	53.7	n/a	U
S10V002396	O		65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.4	n/a	n/a	n/a	n/a	51.4	n/a	U
S10V002396	O		83-32-9	Acenaphthene	ug/kg	75.0	<17.6	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S10V002396	O		56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S10V002396	O		205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C51

Sample Depth: 12-14

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002396	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.2	n/a	n/a	n/a	n/a	41.2	n/a	U
S10V002396	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<590	n/a	n/a	n/a	n/a	590	n/a	U
S10V002396	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.1	n/a	n/a	n/a	n/a	39.1	n/a	U
S10V002396	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S10V002396	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	69.6	<43.2	<43.2	n/a	n/a	n/a	n/a	43.2	n/a	U
S10V002396	O	95-57-8	2-Chlorophenol	ug/kg	73.2	<66.5	<66.5	n/a	n/a	n/a	n/a	66.5	n/a	U
S10V002396	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.4	n/a	n/a	n/a	n/a	81.4	n/a	U
S10V002396	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S10V002396	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<562	n/a	n/a	n/a	n/a	562	n/a	U
S10V002396	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S10V002396	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	66.9	<58.1	<58.1	n/a	n/a	n/a	n/a	58.1	n/a	U
S10V002396	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S10V002396	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.7	n/a	n/a	n/a	n/a	69.7	n/a	U
S10V002396	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<112	n/a	n/a	n/a	n/a	112	n/a	U
S10V002396	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S10V002396	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S10V002396	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.6	n/a	n/a	n/a	n/a	64.6	n/a	U
S10V002396	O	129-00-0	Pyrene	ug/kg	83.7	<62.9	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	U
S10V002396	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<65.0	n/a	n/a	n/a	n/a	65.0	n/a	U
S10V002396	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S10V002396	O	128-37-0	BHT	ug/kg	n/a	<236	<236	n/a	n/a	n/a	n/a	236	n/a	U
S10V002396	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V002396	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V002396	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<558	n/a	n/a	n/a	n/a	558	n/a	U
S10V002396	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V002396	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<460	n/a	n/a	n/a	n/a	460	n/a	U
S10V002397	W	16984-48-8	Fluoride	ug/g	98.6	<1.61E-03	1.45	n/a	n/a	n/a	n/a	0.0158	n/a	
S10V002397	W	GLYCOLAT	Glycolate	ug/g	98.0	<9.37E-03	<0.0921	n/a	n/a	n/a	n/a	0.0921	n/a	U
S10V002397	W	71-50-1	Acetate	ug/g	95.0	<6.04E-03	0.340	n/a	n/a	n/a	n/a	0.0594	n/a	B

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C51

Sample Depth: 12-14

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002397		W	FORMATE	Formate	ug/g	99.0	<4.67E-03	1.85	n/a	n/a	n/a	n/a	0.0459	n/a	B
S10V002397		W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	2.39	n/a	n/a	n/a	n/a	0.0981	n/a	
S10V002397		W	14797-65-0	Nitrite	ug/g	97.3	<0.0192	1.85	n/a	n/a	n/a	n/a	0.189	n/a	B
S10V002397		W	14808-79-8	Sulfate	ug/g	99.3	<0.0187	95.6	n/a	n/a	n/a	n/a	0.184	n/a	
S10V002397		W	338-70-5	Oxalate	ug/g	99.8	<0.0231	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S10V002397		W	24959-67-9	Bromide	ug/g	97.9	<0.0580	<0.570	n/a	n/a	n/a	n/a	0.570	n/a	U
S10V002397		W	14797-55-8	Nitrate	ug/g	98.3	<0.0208	12.2	n/a	n/a	n/a	n/a	0.204	n/a	
S10V002397		W	14265-44-2	Phosphate	ug/g	98.0	<0.0167	1.12	n/a	n/a	n/a	n/a	0.164	n/a	B
S10V002398		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.03E+03	n/a	n/a	n/a	n/a	2.47	n/a	
S10V002398		A	7440-39-3	Barium	ug/g	102	<3.00E-03	89.6	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002398		A	7440-41-7	Beryllium	ug/g	106	<1.00E-03	0.159	n/a	n/a	n/a	n/a	0.0823	n/a	B
S10V002398		A	7440-70-2	Calcium	ug/g	91.9	<0.0500	8.58E+03	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002398		A	7440-45-1	Cerium	ug/g	101	<0.0300	18.6	n/a	n/a	n/a	n/a	2.47	n/a	B
S10V002398		A	7440-48-4	Cobalt	ug/g	98.4	0.0122	9.84	n/a	n/a	n/a	n/a	0.823	n/a	
S10V002398		A	7440-47-3	Chromium	ug/g	97.7	<5.00E-03	10.1	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002398		A	7440-50-8	Copper	ug/g	102	<5.00E-03	11.3	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002398		A	7439-89-6	Iron	ug/g	98.2	5.24E-03	2.28E+04	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002398		A	7440-09-7	Potassium	ug/g	89.7	<0.500	735	n/a	n/a	n/a	n/a	41.2	n/a	
S10V002398		A	7439-91-0	Lanthanum	ug/g	102	<3.00E-03	9.05	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002398		A	7439-93-2	Lithium	ug/g	108	<3.00E-03	5.99	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002398		A	7439-95-4	Magnesium	ug/g	95.5	<0.0500	4.10E+03	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002398		A	7439-96-5	Manganese	ug/g	97.0	<3.00E-03	383	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002398		A	7439-98-7	Molybdenum	ug/g	108	<0.0200	1.98	n/a	n/a	n/a	n/a	1.65	n/a	B
S10V002398		A	7440-23-5	Sodium	ug/g	107	<0.100	455	n/a	n/a	n/a	n/a	8.23	n/a	
S10V002398		A	7440-02-0	Nickel	ug/g	95.7	<0.0200	10.4	n/a	n/a	n/a	n/a	1.65	n/a	B
S10V002398		A	7723-14-0	Phosphorus	ug/g	106	<0.0500	762	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002398		A	7704-34-9	Sulfur	ug/g	106	<0.100	79.6	n/a	n/a	n/a	n/a	8.23	n/a	B
S10V002398		A	7440-21-3	Silicon	ug/g	89.3	<0.0300	100	n/a	n/a	n/a	n/a	2.47	n/a	
S10V002398		A	7440-24-6	Strontium	ug/g	102	<3.00E-03	31.1	n/a	n/a	n/a	n/a	0.247	n/a	

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C51

Sample Depth: 12-14

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002398	A	7440-32-6	Titanium	ug/g	107	<5.00E-03	1.25E+03	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002398	A	7440-62-2	Vanadium	ug/g	100	<5.00E-03	52.3	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002398	A	7440-65-5	Yttrium	ug/g	93.7	<2.00E-03	9.89	n/a	n/a	n/a	n/a	0.165	n/a	
S10V002398	A	7440-66-6	Zinc	ug/g	96.7	<5.00E-03	36.1	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002398	A	7440-67-7	Zirconium	ug/g	105	<5.00E-03	5.79	n/a	n/a	n/a	n/a	0.412	n/a	N
S10V002398	A	14269-63-7	Thorium-230	ug/g	n/a	5.21E-06	3.62E-05	n/a	n/a	n/a	n/a	2.79E-05	n/a	B
S10V002398	A	TH-232	Thorium-232	ug/g	104	<2.00E-04	2.46	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002398	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.08E-04	n/a	n/a	n/a	n/a	3.98E-05	n/a	
S10V002398	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<1.99E-05	n/a	n/a	n/a	n/a	1.99E-05	n/a	U
S10V002398	A	15117-96-1	Uranium-235	ug/g	94.8	<4.00E-06	3.32E-03	n/a	n/a	n/a	n/a	3.98E-05	n/a	
S10V002398	A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	2.09E-05	n/a	n/a	n/a	n/a	1.59E-05	n/a	
S10V002398	A	13994-20-2	Neptunium-237	ug/g	102	<4.00E-05	<3.98E-04	n/a	n/a	n/a	n/a	3.98E-04	n/a	U
S10V002398	A	U-238	Uranium-238	ug/g	104	<2.00E-04	0.504	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002398	A	7440-43-9	Cadmium	ug/g	104	<3.60E-03	0.136	n/a	n/a	n/a	n/a	0.0239	n/a	B
S10V002398	A	7439-92-1	Lead	ug/g	97.1	<6.00E-03	6.86	n/a	n/a	n/a	n/a	0.0597	n/a	
S10V002398	A	7440-28-0	Thallium	ug/g	103	<8.00E-04	0.194	n/a	n/a	n/a	n/a	0.0159	n/a	
S10V002399	S	14798-03-9	Ammonium	ug/g	101	0.410	1.28	n/a	n/a	n/a	n/a	0.476	n/a	CB
S10V002400	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<3.00E-04	n/a	n/a	n/a	n/a	3.00E-04	n/a	U
S10V002400	A	SN-117	Tin-117	ug/g	102	<1.00E-03	<1.00E-02	n/a	n/a	n/a	n/a	0.0100	n/a	U
S10V002400	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	2.77E-04	n/a	n/a	n/a	n/a	2.00E-04	n/a	BE
S10V002401	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.19E-07	<2.34E-07	n/a	n/a	n/a	n/a	2.34E-07	n/a	U
S10V002401	E	14596-10-2	Americium-241	uCi/g	103	<5.46E-07	<5.86E-07	n/a	n/a	n/a	n/a	5.86E-07	n/a	U
S10V002401	E	15510-73-3	Curium-242	uCi/g	n/a	<2.19E-07	<2.34E-07	n/a	n/a	n/a	n/a	2.34E-07	n/a	U
S10V002401	E	PU-239/240	Plutonium-239/240	uCi/g	98.9	<5.46E-07	<3.54E-07	n/a	n/a	n/a	n/a	3.54E-07	n/a	U
S10V002401	E	13981-16-3	Plutonium-238	uCi/g	n/a	<5.46E-07	<3.54E-07	n/a	n/a	n/a	n/a	3.54E-07	n/a	U
S10V002402	E	SR-89/90	Strontium-89/90	uCi/g	101	<2.09E-07	<1.88E-07	n/a	n/a	n/a	n/a	1.88E-07	n/a	U
S10V002403	E	13981-37-8	Nickel-63	uCi/g	90.8	<3.89E-06	<5.73E-06	n/a	n/a	n/a	n/a	5.73E-06	n/a	U
S10V002403	E	15758-45-9	Selenium-79	uCi/g	n/a	<2.73E-06	<2.99E-06	n/a	n/a	n/a	n/a	2.99E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C51 WE

Sample Depth: 12-14

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002393		WV	14133-76-7	Technetium-99	ug/g	110	<3.00E-06	<3.09E-06	n/a	n/a	n/a	n/a	3.09E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C53

Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002410			%WATERA	%WATER-APD	%	n/a	n/a	6.260	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002410			57-12-5	Cyanide	ug/g	93.2	<0.0370	<2.68	n/a	n/a	n/a	n/a	2.68	n/a	UN
S10V002410			7439-97-6	Mercury	ug/g	100	<1.00E-04	<8.16E-03	n/a	n/a	n/a	n/a	8.16E-03	n/a	U
S10V002410			PH	pH	unitless	n/a	n/a	9.14	9.12	9.13	0.219	n/a	0.0100	n/a	
S10V002410			12597-04-5	Sulfide	ug/g	105	<0.180	18.7	21.0	19.9	11.9	106	7.09	n/a	B
S10V002411			10198-40-0	Cobalt-60	uCi/g	98.2	<3.92E-07	<4.13E-07	n/a	n/a	n/a	n/a	4.13E-07	n/a	U
S10V002411			14234-35-6	Antimony-125	uCi/g	n/a	<1.02E-06	<1.02E-06	n/a	n/a	n/a	n/a	1.02E-06	n/a	U
S10V002411			10045-97-3	Cesium-137	uCi/g	100	<5.19E-07	<5.33E-07	n/a	n/a	n/a	n/a	5.33E-07	n/a	U
S10V002411			14683-23-9	Europium-152	uCi/g	n/a	<1.88E-06	<1.81E-06	n/a	n/a	n/a	n/a	1.81E-06	n/a	U
S10V002411			15585-10-1	Europium-154	uCi/g	n/a	<1.08E-06	<1.34E-06	n/a	n/a	n/a	n/a	1.34E-06	n/a	U
S10V002411			14391-16-3	Europium-155	uCi/g	n/a	<9.28E-07	<1.01E-06	n/a	n/a	n/a	n/a	1.01E-06	n/a	U
S10V002411			14274-82-9	Thorium-228	uCi/g	n/a	<2.19E-05	<2.47E-05	n/a	n/a	n/a	n/a	2.47E-05	n/a	U
S10V002411			15065-10-8	Thorium-234	uCi/g	n/a	<1.82E-05	<1.96E-05	n/a	n/a	n/a	n/a	1.96E-05	n/a	U
S10V002411			15046-84-1	Iodine-129	uCi/g	113	<1.93E-07	<1.41E-07	n/a	n/a	n/a	n/a	1.41E-07	n/a	U
S10V002413		W	14762-75-5	Carbon-14	uCi/g	92.4	<1.33E-07	<2.54E-06	n/a	n/a	n/a	n/a	2.54E-06	n/a	U
S10V002413		W	10028-17-8	Tritium	uCi/g	94.7	<4.95E-06	5.06E-06	n/a	n/a	n/a	n/a	2.49E-06	74.014	
S10V002414		A	7440-36-0	Antimony	ug/g	99.9	<2.00E-04	0.0897	n/a	n/a	n/a	n/a	9.55E-03	n/a	B
S10V002415		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	60.8	<77.4	<76.7	n/a	n/a	n/a	n/a	76.7	n/a	U
S10V002415		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.8	n/a	n/a	n/a	n/a	99.8	n/a	U
S10V002415		O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.2	<38.1	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S10V002415		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.6	n/a	n/a	n/a	n/a	43.6	n/a	U
S10V002415		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S10V002415		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.0	n/a	n/a	n/a	n/a	57.0	n/a	U
S10V002415		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.2	n/a	n/a	n/a	n/a	53.2	n/a	U
S10V002415		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.0	n/a	n/a	n/a	n/a	51.0	n/a	U
S10V002415		O	83-32-9	Acenaphthene	ug/kg	68.8	<17.6	<17.5	n/a	n/a	n/a	n/a	17.5	n/a	U
S10V002415		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.5	n/a	n/a	n/a	n/a	37.5	n/a	U
S10V002415		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.5	n/a	n/a	n/a	n/a	48.5	n/a	U
S10V002415		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.9	n/a	n/a	n/a	n/a	40.9	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C53

Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002415	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<585	n/a	n/a	n/a	n/a	585	n/a	U
S10V002415	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.8	n/a	n/a	n/a	n/a	38.8	n/a	U
S10V002415	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	200	n/a	n/a	n/a	n/a	49.6	n/a	J
S10V002415	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.4	<43.2	<42.8	n/a	n/a	n/a	n/a	42.8	n/a	U
S10V002415	O	95-57-8	2-Chlorophenol	ug/kg	67.6	<66.5	<65.9	n/a	n/a	n/a	n/a	65.9	n/a	U
S10V002415	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.7	n/a	n/a	n/a	n/a	80.7	n/a	U
S10V002415	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.7	n/a	n/a	n/a	n/a	50.7	n/a	U
S10V002415	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<558	n/a	n/a	n/a	n/a	558	n/a	U
S10V002415	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.3	n/a	n/a	n/a	n/a	47.3	n/a	U
S10V002415	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	61.9	<58.1	<57.6	n/a	n/a	n/a	n/a	57.6	n/a	U
S10V002415	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.1	n/a	n/a	n/a	n/a	35.1	n/a	U
S10V002415	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.1	n/a	n/a	n/a	n/a	69.1	n/a	U
S10V002415	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V002415	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S10V002415	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.1	n/a	n/a	n/a	n/a	62.1	n/a	U
S10V002415	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.1	n/a	n/a	n/a	n/a	64.1	n/a	U
S10V002415	O	129-00-0	Pyrene	ug/kg	80.1	<62.9	<62.4	n/a	n/a	n/a	n/a	62.4	n/a	U
S10V002415	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.4	n/a	n/a	n/a	n/a	64.4	n/a	U
S10V002415	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V002415	O	128-37-0	BHT	ug/kg	n/a	<236	<234	n/a	n/a	n/a	n/a	234	n/a	U
S10V002415	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<181	n/a	n/a	n/a	n/a	181	n/a	U
S10V002415	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V002415	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<553	n/a	n/a	n/a	n/a	553	n/a	U
S10V002415	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S10V002415	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<456	n/a	n/a	n/a	n/a	456	n/a	U
S10V002416	W	16984-48-8	Fluoride	ug/g	98.6	<1.61E-03	1.49	n/a	n/a	n/a	n/a	0.0159	n/a	
S10V002416	W	GLYCOLAT	Glycolate	ug/g	98.0	<9.37E-03	<0.0927	n/a	n/a	n/a	n/a	0.0927	n/a	U
S10V002416	W	71-50-1	Acetate	ug/g	95.0	<6.04E-03	0.274	n/a	n/a	n/a	n/a	0.0598	n/a	B
S10V002416	W	FORMATE	Formate	ug/g	99.0	<4.67E-03	0.313	n/a	n/a	n/a	n/a	0.0462	n/a	B

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C53

Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002416	W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	1.98	n/a	n/a	n/a	n/a	0.0988	n/a	
S10V002416	W	14797-65-0	Nitrite	ug/g	97.3	<0.0192	1.34	n/a	n/a	n/a	n/a	0.190	n/a	B
S10V002416	W	14808-79-8	Sulfate	ug/g	99.3	<0.0187	50.9	n/a	n/a	n/a	n/a	0.185	n/a	
S10V002416	W	338-70-5	Oxalate	ug/g	99.8	<0.0231	<0.229	n/a	n/a	n/a	n/a	0.229	n/a	U
S10V002416	W	24959-67-9	Bromide	ug/g	97.9	<0.0580	<0.574	n/a	n/a	n/a	n/a	0.574	n/a	U
S10V002416	W	14797-55-8	Nitrate	ug/g	98.3	<0.0208	12.8	n/a	n/a	n/a	n/a	0.206	n/a	
S10V002416	W	14265-44-2	Phosphate	ug/g	98.0	<0.0167	1.01	n/a	n/a	n/a	n/a	0.165	n/a	B
S10V002417	A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.38E+03	n/a	n/a	n/a	n/a	2.48	n/a	
S10V002417	A	7440-39-3	Barium	ug/g	102	<3.00E-03	103	n/a	n/a	n/a	n/a	0.248	n/a	
S10V002417	A	7440-41-7	Beryllium	ug/g	106	<1.00E-03	0.190	n/a	n/a	n/a	n/a	0.0827	n/a	B
S10V002417	A	7440-70-2	Calcium	ug/g	91.9	<0.0500	1.06E+04	n/a	n/a	n/a	n/a	4.13	n/a	
S10V002417	A	7440-45-1	Cerium	ug/g	101	<0.0300	19.1	n/a	n/a	n/a	n/a	2.48	n/a	B
S10V002417	A	7440-48-4	Cobalt	ug/g	98.4	0.0122	10.6	n/a	n/a	n/a	n/a	0.827	n/a	
S10V002417	A	7440-47-3	Chromium	ug/g	97.7	<5.00E-03	14.9	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002417	A	7440-50-8	Copper	ug/g	102	<5.00E-03	11.3	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002417	A	7439-89-6	Iron	ug/g	98.2	5.24E-03	2.40E+04	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002417	A	7440-09-7	Potassium	ug/g	89.7	<0.500	794	n/a	n/a	n/a	n/a	41.3	n/a	
S10V002417	A	7439-91-0	Lanthanum	ug/g	102	<3.00E-03	8.02	n/a	n/a	n/a	n/a	0.248	n/a	
S10V002417	A	7439-93-2	Lithium	ug/g	108	<3.00E-03	7.04	n/a	n/a	n/a	n/a	0.248	n/a	
S10V002417	A	7439-95-4	Magnesium	ug/g	95.5	<0.0500	4.46E+03	n/a	n/a	n/a	n/a	4.13	n/a	
S10V002417	A	7439-96-5	Manganese	ug/g	97.0	<3.00E-03	465	n/a	n/a	n/a	n/a	0.248	n/a	
S10V002417	A	7439-98-7	Molybdenum	ug/g	108	<0.0200	2.00	n/a	n/a	n/a	n/a	1.65	n/a	B
S10V002417	A	7440-23-5	Sodium	ug/g	107	<0.100	397	n/a	n/a	n/a	n/a	8.27	n/a	
S10V002417	A	7440-02-0	Nickel	ug/g	95.7	<0.0200	12.3	n/a	n/a	n/a	n/a	1.65	n/a	B
S10V002417	A	7723-14-0	Phosphorus	ug/g	106	<0.0500	702	n/a	n/a	n/a	n/a	4.13	n/a	
S10V002417	A	7704-34-9	Sulfur	ug/g	106	<0.100	67.9	n/a	n/a	n/a	n/a	8.27	n/a	B
S10V002417	A	7440-21-3	Silicon	ug/g	89.3	<0.0300	118	n/a	n/a	n/a	n/a	2.48	n/a	
S10V002417	A	7440-24-6	Strontium	ug/g	102	<3.00E-03	37.7	n/a	n/a	n/a	n/a	0.248	n/a	
S10V002417	A	7440-29-1	Thorium	ug/g	92.6	<0.0500	<4.13	n/a	n/a	n/a	n/a	4.13	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C53

Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002417	A	7440-32-6	Titanium	ug/g	107	<5.00E-03	1.28E+03	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002417	A	7440-62-2	Vanadium	ug/g	100	<5.00E-03	53.8	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002417	A	7440-65-5	Yttrium	ug/g	93.7	<2.00E-03	9.34	n/a	n/a	n/a	n/a	0.165	n/a	
S10V002417	A	7440-66-6	Zinc	ug/g	96.7	<5.00E-03	38.1	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002417	A	7440-67-7	Zirconium	ug/g	105	<5.00E-03	11.9	n/a	n/a	n/a	n/a	0.413	n/a	N
S10V002417	A	14269-63-7	Thorium-230	ug/g	n/a	5.21E-06	5.64E-05	n/a	n/a	n/a	n/a	2.79E-05	n/a	B
S10V002417	A	TH-232	Thorium-232	ug/g	104	<2.00E-04	2.55	n/a	n/a	n/a	n/a	2.00E-03	n/a	
S10V002417	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	1.34E-04	n/a	n/a	n/a	n/a	3.99E-05	n/a	
S10V002417	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<2.00E-05	n/a	n/a	n/a	n/a	2.00E-05	n/a	U
S10V002417	A	15117-96-1	Uranium-235	ug/g	94.8	<4.00E-06	3.70E-03	n/a	n/a	n/a	n/a	3.99E-05	n/a	
S10V002417	A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	3.24E-05	n/a	n/a	n/a	n/a	1.60E-05	n/a	
S10V002417	A	13994-20-2	Neptunium-237	ug/g	102	<4.00E-05	<3.99E-04	n/a	n/a	n/a	n/a	3.99E-04	n/a	U
S10V002417	A	U-238	Uranium-238	ug/g	104	<2.00E-04	0.574	n/a	n/a	n/a	n/a	2.00E-03	n/a	
S10V002417	A	7440-43-9	Cadmium	ug/g	104	<3.60E-03	0.127	n/a	n/a	n/a	n/a	0.0239	n/a	B
S10V002417	A	7439-92-1	Lead	ug/g	97.1	<6.00E-03	6.64	n/a	n/a	n/a	n/a	0.0599	n/a	
S10V002417	A	7440-28-0	Thallium	ug/g	103	<8.00E-04	0.177	n/a	n/a	n/a	n/a	0.0160	n/a	
S10V002418	S	14798-03-9	Ammonium	ug/g	101	0.410	0.987	n/a	n/a	n/a	n/a	0.473	n/a	CB
S10V002419	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.98E-04	n/a	n/a	n/a	n/a	2.98E-04	n/a	U
S10V002419	A	SN-117	Tin-117	ug/g	102	<1.00E-03	0.0118	n/a	n/a	n/a	n/a	9.92E-03	n/a	
S10V002419	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	4.39E-04	n/a	n/a	n/a	n/a	1.98E-04	n/a	BE
S10V002420	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.19E-07	<1.98E-07	n/a	n/a	n/a	n/a	1.98E-07	n/a	U
S10V002420	E	14596-10-2	Americium-241	uCi/g	103	<5.46E-07	<4.95E-07	n/a	n/a	n/a	n/a	4.95E-07	n/a	U
S10V002420	E	15510-73-3	Curium-242	uCi/g	n/a	<2.19E-07	<1.98E-07	n/a	n/a	n/a	n/a	1.98E-07	n/a	U
S10V002420	E	PU-239/240	Plutonium-239/240	uCi/g	98.9	<5.46E-07	<3.31E-07	n/a	n/a	n/a	n/a	3.31E-07	n/a	U
S10V002420	E	13981-16-3	Plutonium-238	uCi/g	n/a	<5.46E-07	<3.31E-07	n/a	n/a	n/a	n/a	3.31E-07	n/a	U
S10V002421	E	SR-89/90	Strontium-89/90	uCi/g	101	<2.09E-07	<1.84E-07	n/a	n/a	n/a	n/a	1.84E-07	n/a	U
S10V002422	E	13981-37-8	Nickel-63	uCi/g	90.8	<3.89E-06	<5.50E-06	n/a	n/a	n/a	n/a	5.50E-06	n/a	U
S10V002422	E	15758-45-9	Selenium-79	uCi/g	n/a	<2.73E-06	<2.15E-06	n/a	n/a	n/a	n/a	2.15E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C53 WE

Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002412		WV	14133-76-7	Technetium-99	ug/g	110	<3.00E-06	<3.03E-06	n/a	n/a	n/a	n/a	3.03E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C54

Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002404			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.101	n/a	n/a	n/a	n/a	0.101	n/a	U
S10V002404			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.183	n/a	n/a	n/a	n/a	0.183	n/a	U
S10V002404			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U
S10V002404			75-35-4	1,1-Dichloroethene	ug/kg	105	<0.423	<0.466	n/a	n/a	n/a	n/a	0.466	n/a	U
S10V002404			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0593	n/a	n/a	n/a	n/a	0.0593	n/a	U
S10V002404			71-36-3	1-Butanol	ug/kg	112	<10.3	<11.3	n/a	n/a	n/a	n/a	11.3	n/a	U
S10V002404			108-10-1	Hexone	ug/kg	105	<1.71	<1.88	n/a	n/a	n/a	n/a	1.88	n/a	U
S10V002404			67-64-1	Acetone	ug/kg	91.5	<2.20	<2.42	n/a	n/a	n/a	n/a	2.42	n/a	U
S10V002404			71-43-2	Benzene	ug/kg	106	<0.147	<0.162	n/a	n/a	n/a	n/a	0.162	n/a	U
S10V002404			75-15-0	Carbon disulfide	ug/kg	n/a	0.801	<0.177	n/a	n/a	n/a	n/a	0.177	n/a	U
S10V002404			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.103	n/a	n/a	n/a	n/a	0.103	n/a	U
S10V002404			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S10V002404			108-90-7	Chlorobenzene	ug/kg	101	<0.0864	<0.0952	n/a	n/a	n/a	n/a	0.0952	n/a	U
S10V002404			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.118	n/a	n/a	n/a	n/a	0.118	n/a	U
S10V002404			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S10V002404			78-93-3	2-Butanone	ug/kg	102	<1.96	<2.16	n/a	n/a	n/a	n/a	2.16	n/a	U
S10V002404			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0705	n/a	n/a	n/a	n/a	0.0705	n/a	U
S10V002404			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.121	n/a	n/a	n/a	n/a	0.121	n/a	U
S10V002404			100-42-5	Styrene	ug/kg	n/a	0.348	0.464	n/a	n/a	n/a	n/a	0.139	n/a	BJ
S10V002404			108-88-3	Toluene	ug/kg	103	0.159	1.05	n/a	n/a	n/a	n/a	0.0883	n/a	B
S10V002404			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.298	n/a	n/a	n/a	n/a	0.298	n/a	U
S10V002404			79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S10V002404			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S10V002404			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S10V002404			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.334	n/a	n/a	n/a	n/a	0.334	n/a	U
S10V002404			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.128	n/a	n/a	n/a	n/a	0.128	n/a	U
S10V002404			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.648	n/a	n/a	n/a	n/a	0.648	n/a	U
S10V002404			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.647	n/a	n/a	n/a	n/a	0.647	n/a	U
S10V002404			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.282	n/a	n/a	n/a	n/a	0.282	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C54

Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002404			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002404			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.101	n/a	n/a	n/a	n/a	0.101	n/a	U
S10V002404			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.184	n/a	n/a	n/a	n/a	0.184	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C55

Sample Depth: 18-20

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002429			%WATERA	%WATER-APD	%	n/a	n/a	7.620	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002429			57-12-5	Cyanide	ug/g	93.2	<0.0370	<2.77	<2.82	n/a	n/a	42.6	2.77	n/a	UN
S10V002429			7439-97-6	Mercury	ug/g	100	<1.00E-04	<8.57E-03	n/a	n/a	n/a	n/a	8.57E-03	n/a	U
S10V002429			PH	pH	unitless	n/a	n/a	8.94	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002429			12597-04-5	Sulfide	ug/g	105	<0.180	13.3	n/a	n/a	n/a	n/a	7.05	n/a	B
S10V002430			10198-40-0	Cobalt-60	uCi/g	98.2	<3.92E-07	<3.95E-07	n/a	n/a	n/a	n/a	3.95E-07	n/a	U
S10V002430			14234-35-6	Antimony-125	uCi/g	n/a	<1.02E-06	<9.83E-07	n/a	n/a	n/a	n/a	9.83E-07	n/a	U
S10V002430			10045-97-3	Cesium-137	uCi/g	100	<5.19E-07	<5.13E-07	n/a	n/a	n/a	n/a	5.13E-07	n/a	U
S10V002430			14683-23-9	Europium-152	uCi/g	n/a	<1.88E-06	<1.74E-06	n/a	n/a	n/a	n/a	1.74E-06	n/a	U
S10V002430			15585-10-1	Europium-154	uCi/g	n/a	<1.08E-06	<1.21E-06	n/a	n/a	n/a	n/a	1.21E-06	n/a	U
S10V002430			14391-16-3	Europium-155	uCi/g	n/a	<9.28E-07	<1.00E-06	n/a	n/a	n/a	n/a	1.00E-06	n/a	U
S10V002430			14274-82-9	Thorium-228	uCi/g	n/a	<2.19E-05	<2.36E-05	n/a	n/a	n/a	n/a	2.36E-05	n/a	U
S10V002430			15065-10-8	Thorium-234	uCi/g	n/a	<1.82E-05	<1.86E-05	n/a	n/a	n/a	n/a	1.86E-05	n/a	U
S10V002430			15046-84-1	Iodine-129	uCi/g	113	<1.93E-07	<1.53E-07	n/a	n/a	n/a	n/a	1.53E-07	n/a	U
S10V002432		W	14762-75-5	Carbon-14	uCi/g	92.4	<1.33E-07	<1.36E-06	n/a	n/a	n/a	n/a	1.36E-06	n/a	U
S10V002432		W	10028-17-8	Tritium	uCi/g	94.7	<4.95E-06	<3.84E-06	n/a	n/a	n/a	n/a	3.84E-06	n/a	U
S10V002433		A	7440-36-0	Antimony	ug/g	99.9	<2.00E-04	0.126	n/a	n/a	n/a	n/a	9.51E-03	n/a	
S10V002434		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	60.8	<77.4	<77.1	n/a	n/a	n/a	n/a	77.1	n/a	U
S10V002434		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S10V002434		O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.2	<38.1	<38.0	n/a	n/a	n/a	n/a	38.0	n/a	U
S10V002434		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.8	n/a	n/a	n/a	n/a	43.8	n/a	U
S10V002434		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S10V002434		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.3	n/a	n/a	n/a	n/a	57.3	n/a	U
S10V002434		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.5	n/a	n/a	n/a	n/a	53.5	n/a	U
S10V002434		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S10V002434		O	83-32-9	Acenaphthene	ug/kg	68.8	<17.6	<17.5	n/a	n/a	n/a	n/a	17.5	n/a	U
S10V002434		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V002434		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S10V002434		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C55

Sample Depth: 18-20

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002434	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<588	n/a	n/a	n/a	n/a	588	n/a	U
S10V002434	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.0	n/a	n/a	n/a	n/a	39.0	n/a	U
S10V002434	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S10V002434	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.4	<43.2	<43.0	n/a	n/a	n/a	n/a	43.0	n/a	U
S10V002434	O	95-57-8	2-Chlorophenol	ug/kg	67.6	<66.5	<66.3	n/a	n/a	n/a	n/a	66.3	n/a	U
S10V002434	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.1	n/a	n/a	n/a	n/a	81.1	n/a	U
S10V002434	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S10V002434	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<560	n/a	n/a	n/a	n/a	560	n/a	U
S10V002434	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.5	n/a	n/a	n/a	n/a	47.5	n/a	U
S10V002434	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	61.9	<58.1	<57.9	n/a	n/a	n/a	n/a	57.9	n/a	U
S10V002434	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S10V002434	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.4	n/a	n/a	n/a	n/a	69.4	n/a	U
S10V002434	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V002434	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V002434	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.4	n/a	n/a	n/a	n/a	62.4	n/a	U
S10V002434	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.4	n/a	n/a	n/a	n/a	64.4	n/a	U
S10V002434	O	129-00-0	Pyrene	ug/kg	80.1	<62.9	<62.7	n/a	n/a	n/a	n/a	62.7	n/a	U
S10V002434	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	U
S10V002434	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V002434	O	128-37-0	BHT	ug/kg	n/a	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S10V002434	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V002434	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V002434	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V002434	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V002434	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<459	n/a	n/a	n/a	n/a	459	n/a	U
S10V002435	W	16984-48-8	Fluoride	ug/g	98.6	<1.61E-03	0.828	n/a	n/a	n/a	n/a	0.0159	n/a	
S10V002435	W	GLYCOLAT	Glycolate	ug/g	98.0	<9.37E-03	<0.0926	n/a	n/a	n/a	n/a	0.0926	n/a	U
S10V002435	W	71-50-1	Acetate	ug/g	95.0	<6.04E-03	<0.0597	n/a	n/a	n/a	n/a	0.0597	n/a	U
S10V002435	W	FORMATE	Formate	ug/g	99.0	<4.67E-03	0.110	n/a	n/a	n/a	n/a	0.0461	n/a	B

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C55

Sample Depth: 18-20

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002435	W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	6.41	n/a	n/a	n/a	n/a	0.0986	n/a	
S10V002435	W	14797-65-0	Nitrite	ug/g	97.3	<0.0192	<0.190	n/a	n/a	n/a	n/a	0.190	n/a	U
S10V002435	W	14808-79-8	Sulfate	ug/g	99.3	<0.0187	94.3	n/a	n/a	n/a	n/a	0.185	n/a	
S10V002435	W	338-70-5	Oxalate	ug/g	99.8	<0.0231	<0.228	n/a	n/a	n/a	n/a	0.228	n/a	U
S10V002435	W	24959-67-9	Bromide	ug/g	97.9	<0.0580	<0.573	n/a	n/a	n/a	n/a	0.573	n/a	U
S10V002435	W	14797-55-8	Nitrate	ug/g	98.3	<0.0208	16.9	n/a	n/a	n/a	n/a	0.206	n/a	
S10V002435	W	14265-44-2	Phosphate	ug/g	98.0	<0.0167	0.426	n/a	n/a	n/a	n/a	0.165	n/a	B
S10V002436	A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.24E+03	n/a	n/a	n/a	n/a	2.50	n/a	
S10V002436	A	7440-39-3	Barium	ug/g	102	<3.00E-03	78.6	n/a	n/a	n/a	n/a	0.250	n/a	
S10V002436	A	7440-41-7	Beryllium	ug/g	106	<1.00E-03	0.190	n/a	n/a	n/a	n/a	0.0833	n/a	B
S10V002436	A	7440-70-2	Calcium	ug/g	91.9	<0.0500	8.76E+03	n/a	n/a	n/a	n/a	4.16	n/a	
S10V002436	A	7440-45-1	Cerium	ug/g	101	<0.0300	17.3	n/a	n/a	n/a	n/a	2.50	n/a	B
S10V002436	A	7440-48-4	Cobalt	ug/g	98.4	0.0122	8.58	n/a	n/a	n/a	n/a	0.833	n/a	
S10V002436	A	7440-47-3	Chromium	ug/g	97.7	<5.00E-03	12.0	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002436	A	7440-50-8	Copper	ug/g	102	<5.00E-03	10.8	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002436	A	7439-89-6	Iron	ug/g	98.2	5.24E-03	1.68E+04	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002436	A	7440-09-7	Potassium	ug/g	89.7	<0.500	910	n/a	n/a	n/a	n/a	41.6	n/a	
S10V002436	A	7439-91-0	Lanthanum	ug/g	102	<3.00E-03	7.66	n/a	n/a	n/a	n/a	0.250	n/a	
S10V002436	A	7439-93-2	Lithium	ug/g	108	<3.00E-03	7.18	n/a	n/a	n/a	n/a	0.250	n/a	
S10V002436	A	7439-95-4	Magnesium	ug/g	95.5	<0.0500	4.16E+03	n/a	n/a	n/a	n/a	4.16	n/a	
S10V002436	A	7439-96-5	Manganese	ug/g	97.0	<3.00E-03	354	n/a	n/a	n/a	n/a	0.250	n/a	
S10V002436	A	7439-98-7	Molybdenum	ug/g	108	<0.0200	<1.67	n/a	n/a	n/a	n/a	1.67	n/a	U
S10V002436	A	7440-23-5	Sodium	ug/g	107	<0.100	312	n/a	n/a	n/a	n/a	8.33	n/a	
S10V002436	A	7440-02-0	Nickel	ug/g	95.7	<0.0200	13.7	n/a	n/a	n/a	n/a	1.67	n/a	B
S10V002436	A	7723-14-0	Phosphorus	ug/g	106	<0.0500	593	n/a	n/a	n/a	n/a	4.16	n/a	
S10V002436	A	7704-34-9	Sulfur	ug/g	106	<0.100	68.4	n/a	n/a	n/a	n/a	8.33	n/a	B
S10V002436	A	7440-21-3	Silicon	ug/g	89.3	<0.0300	101	n/a	n/a	n/a	n/a	2.50	n/a	
S10V002436	A	7440-24-6	Strontium	ug/g	102	<3.00E-03	31.9	n/a	n/a	n/a	n/a	0.250	n/a	
S10V002436	A	7440-29-1	Thorium	ug/g	92.6	<0.0500	<4.16	n/a	n/a	n/a	n/a	4.16	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C55

Sample Depth: 18-20

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002436	A	7440-32-6	Titanium	ug/g	107	<5.00E-03	753	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002436	A	7440-62-2	Vanadium	ug/g	100	<5.00E-03	34.4	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002436	A	7440-65-5	Yttrium	ug/g	93.7	<2.00E-03	7.34	n/a	n/a	n/a	n/a	0.167	n/a	
S10V002436	A	7440-66-6	Zinc	ug/g	96.7	<5.00E-03	32.2	n/a	n/a	n/a	n/a	0.416	n/a	
S10V002436	A	7440-67-7	Zirconium	ug/g	105	<5.00E-03	10.7	n/a	n/a	n/a	n/a	0.416	n/a	N
S10V002436	A	14269-63-7	Thorium-230	ug/g	n/a	5.21E-06	4.70E-05	n/a	n/a	n/a	n/a	2.77E-05	n/a	B
S10V002436	A	TH-232	Thorium-232	ug/g	104	<2.00E-04	4.50	n/a	n/a	n/a	n/a	1.98E-03	n/a	
S10V002436	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	2.26E-04	n/a	n/a	n/a	n/a	3.95E-05	n/a	
S10V002436	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<1.98E-05	n/a	n/a	n/a	n/a	1.98E-05	n/a	U
S10V002436	A	15117-96-1	Uranium-235	ug/g	94.8	<4.00E-06	4.17E-03	n/a	n/a	n/a	n/a	3.95E-05	n/a	
S10V002436	A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.58E-05	n/a	n/a	n/a	n/a	1.58E-05	n/a	U
S10V002436	A	13994-20-2	Neptunium-237	ug/g	102	<4.00E-05	<3.95E-04	n/a	n/a	n/a	n/a	3.95E-04	n/a	U
S10V002436	A	U-238	Uranium-238	ug/g	104	<2.00E-04	0.659	n/a	n/a	n/a	n/a	1.98E-03	n/a	
S10V002436	A	7440-43-9	Cadmium	ug/g	104	<3.60E-03	0.137	n/a	n/a	n/a	n/a	0.0237	n/a	B
S10V002436	A	7439-92-1	Lead	ug/g	97.1	<6.00E-03	10.3	n/a	n/a	n/a	n/a	0.0593	n/a	
S10V002436	A	7440-28-0	Thallium	ug/g	103	<8.00E-04	0.189	n/a	n/a	n/a	n/a	0.0158	n/a	
S10V002437	S	14798-03-9	Ammonium	ug/g	101	0.410	2.29	n/a	n/a	n/a	n/a	0.476	n/a	CB
S10V002438	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.97E-04	n/a	n/a	n/a	n/a	2.97E-04	n/a	U
S10V002438	A	SN-117	Tin-117	ug/g	102	<1.00E-03	<9.92E-03	n/a	n/a	n/a	n/a	9.92E-03	n/a	U
S10V002438	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	4.71E-04	n/a	n/a	n/a	n/a	1.98E-04	n/a	BE
S10V002439	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.19E-07	<2.52E-07	n/a	n/a	n/a	n/a	2.52E-07	n/a	U
S10V002439	E	14596-10-2	Americium-241	uCi/g	103	<5.46E-07	<6.29E-07	n/a	n/a	n/a	n/a	6.29E-07	n/a	U
S10V002439	E	15510-73-3	Curium-242	uCi/g	n/a	<2.19E-07	<2.52E-07	n/a	n/a	n/a	n/a	2.52E-07	n/a	U
S10V002439	E	PU-239/240	Plutonium-239/240	uCi/g	98.9	<5.46E-07	<3.18E-07	n/a	n/a	n/a	n/a	3.18E-07	n/a	U
S10V002439	E	13981-16-3	Plutonium-238	uCi/g	n/a	<5.46E-07	<3.18E-07	n/a	n/a	n/a	n/a	3.18E-07	n/a	U
S10V002440	E	SR-89/90	Strontium-89/90	uCi/g	101	<2.09E-07	<1.92E-07	n/a	n/a	n/a	n/a	1.92E-07	n/a	U
S10V002441	E	13981-37-8	Nickel-63	uCi/g	90.8	<3.89E-06	<5.68E-06	n/a	n/a	n/a	n/a	5.68E-06	n/a	U
S10V002441	E	15758-45-9	Selenium-79	uCi/g	n/a	<2.73E-06	<4.31E-06	n/a	n/a	n/a	n/a	4.31E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C55 WE

Sample Depth: 18-20

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002431		WV	14133-76-7	Technetium-99	ug/g	110	<3.00E-06	<3.17E-06	n/a	n/a	n/a	n/a	3.17E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C56

Sample Depth: 18-20

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002423			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0873	n/a	n/a	n/a	n/a	0.0873	n/a	U
S10V002423			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.157	n/a	n/a	n/a	n/a	0.157	n/a	U
S10V002423			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.201	n/a	n/a	n/a	n/a	0.201	n/a	U
S10V002423			75-35-4	1,1-Dichloroethene	ug/kg	105	<0.423	<0.402	n/a	n/a	n/a	n/a	0.402	n/a	U
S10V002423			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0510	n/a	n/a	n/a	n/a	0.0510	n/a	U
S10V002423			71-36-3	1-Butanol	ug/kg	112	<10.3	<9.76	n/a	n/a	n/a	n/a	9.76	n/a	U
S10V002423			108-10-1	Hexone	ug/kg	105	<1.71	<1.62	n/a	n/a	n/a	n/a	1.62	n/a	U
S10V002423			67-64-1	Acetone	ug/kg	91.5	<2.20	<2.09	n/a	n/a	n/a	n/a	2.09	n/a	U
S10V002423			71-43-2	Benzene	ug/kg	106	<0.147	<0.140	n/a	n/a	n/a	n/a	0.140	n/a	U
S10V002423			75-15-0	Carbon disulfide	ug/kg	n/a	0.801	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S10V002423			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0886	n/a	n/a	n/a	n/a	0.0886	n/a	U
S10V002423			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.124	n/a	n/a	n/a	n/a	0.124	n/a	U
S10V002423			108-90-7	Chlorobenzene	ug/kg	101	<0.0864	<0.0820	n/a	n/a	n/a	n/a	0.0820	n/a	U
S10V002423			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.102	n/a	n/a	n/a	n/a	0.102	n/a	U
S10V002423			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.193	n/a	n/a	n/a	n/a	0.193	n/a	U
S10V002423			78-93-3	2-Butanone	ug/kg	102	<1.96	<1.86	n/a	n/a	n/a	n/a	1.86	n/a	U
S10V002423			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0607	n/a	n/a	n/a	n/a	0.0607	n/a	U
S10V002423			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S10V002423			108-88-3	Toluene	ug/kg	103	0.159	0.394	n/a	n/a	n/a	n/a	0.0761	n/a	BJ
S10V002423			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.257	n/a	n/a	n/a	n/a	0.257	n/a	U
S10V002423			79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S10V002423			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U
S10V002423			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.172	n/a	n/a	n/a	n/a	0.172	n/a	U
S10V002423			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.287	n/a	n/a	n/a	n/a	0.287	n/a	U
S10V002423			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.110	n/a	n/a	n/a	n/a	0.110	n/a	U
S10V002423			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.558	n/a	n/a	n/a	n/a	0.558	n/a	U
S10V002423			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.557	n/a	n/a	n/a	n/a	0.557	n/a	U
S10V002423			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.243	n/a	n/a	n/a	n/a	0.243	n/a	U
S10V002423			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0892	n/a	n/a	n/a	n/a	0.0892	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C56

Sample Depth: 18-20

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002423			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0873	n/a	n/a	n/a	n/a	0.0873	n/a	U
S10V002423			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C57

Sample Depth: 45-47

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002448			%WATERA	%WATER-APD	%	n/a	n/a	7.140	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002448			57-12-5	Cyanide	ug/g	105	<0.0370	<2.61	<2.63	n/a	n/a	94.6	2.61	n/a	U
S10V002448			7439-97-6	Mercury	ug/g	100	<1.00E-04	<8.81E-03	n/a	n/a	n/a	n/a	8.81E-03	n/a	U
S10V002448			PH	pH	unitless	n/a	n/a	8.48	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002448			12597-04-5	Sulfide	ug/g	96.1	<0.180	10.9	10.0	10.5	8.44	98.7	7.18	n/a	B
S10V002449			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.07E-05	n/a	n/a	n/a	n/a	8.06E-06	48.28	
S10V002449			10198-40-0	Cobalt-60	uCi/g	98.2	<3.92E-07	<4.13E-07	n/a	n/a	n/a	n/a	4.13E-07	n/a	U
S10V002449			14234-35-6	Antimony-125	uCi/g	n/a	<1.02E-06	<9.73E-07	n/a	n/a	n/a	n/a	9.73E-07	n/a	U
S10V002449			10045-97-3	Cesium-137	uCi/g	100	<5.19E-07	<5.49E-07	n/a	n/a	n/a	n/a	5.49E-07	n/a	U
S10V002449			14683-23-9	Europium-152	uCi/g	n/a	<1.88E-06	<1.96E-06	n/a	n/a	n/a	n/a	1.96E-06	n/a	U
S10V002449			15585-10-1	Europium-154	uCi/g	n/a	<1.08E-06	<1.20E-06	n/a	n/a	n/a	n/a	1.20E-06	n/a	U
S10V002449			14391-16-3	Europium-155	uCi/g	n/a	<9.28E-07	<9.81E-07	n/a	n/a	n/a	n/a	9.81E-07	n/a	U
S10V002449			14274-82-9	Thorium-228	uCi/g	n/a	<2.19E-05	<2.39E-05	n/a	n/a	n/a	n/a	2.39E-05	n/a	U
S10V002449			15065-10-8	Thorium-234	uCi/g	n/a	<1.82E-05	<1.88E-05	n/a	n/a	n/a	n/a	1.88E-05	n/a	U
S10V002449			15046-84-1	Iodine-129	uCi/g	113	<1.93E-07	<1.02E-06	n/a	n/a	n/a	n/a	1.02E-06	n/a	U
S10V002451		W	14762-75-5	Carbon-14	uCi/g	92.4	<1.33E-07	<1.32E-06	n/a	n/a	n/a	n/a	1.32E-06	n/a	U
S10V002451		W	10028-17-8	Tritium	uCi/g	94.7	<4.95E-06	<4.28E-06	n/a	n/a	n/a	n/a	4.28E-06	n/a	U
S10V002452		A	7440-36-0	Antimony	ug/g	99.9	<2.00E-04	0.115	n/a	n/a	n/a	n/a	9.48E-03	n/a	
S10V002453		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	60.8	<77.4	<77.2	n/a	n/a	n/a	56.9	77.2	n/a	U
S10V002453		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S10V002453		O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.2	<38.1	<38.0	n/a	n/a	n/a	83.5	38.0	n/a	U
S10V002453		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S10V002453		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V002453		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.3	n/a	n/a	n/a	n/a	57.3	n/a	U
S10V002453		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.5	n/a	n/a	n/a	n/a	53.5	n/a	U
S10V002453		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S10V002453		O	83-32-9	Acenaphthene	ug/kg	68.8	<17.6	<17.5	n/a	n/a	n/a	69.3	17.5	n/a	U
S10V002453		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V002453		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C57

Sample Depth: 45-47

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002453		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.1	n/a	n/a	n/a	n/a	41.1	n/a	U
S10V002453		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<588	n/a	n/a	n/a	n/a	588	n/a	U
S10V002453		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.0	n/a	n/a	n/a	n/a	39.0	n/a	U
S10V002453		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S10V002453		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.4	<43.2	<43.1	n/a	n/a	n/a	68.1	43.1	n/a	U
S10V002453		O	95-57-8	2-Chlorophenol	ug/kg	67.6	<66.5	<66.3	n/a	n/a	n/a	71.3	66.3	n/a	U
S10V002453		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.2	n/a	n/a	n/a	n/a	81.2	n/a	U
S10V002453		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S10V002453		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<561	n/a	n/a	n/a	n/a	561	n/a	U
S10V002453		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S10V002453		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	61.9	<58.1	<57.9	n/a	n/a	n/a	64.8	57.9	n/a	U
S10V002453		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S10V002453		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.5	n/a	n/a	n/a	n/a	69.5	n/a	U
S10V002453		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V002453		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V002453		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.4	n/a	n/a	n/a	n/a	62.4	n/a	U
S10V002453		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.4	n/a	n/a	n/a	n/a	64.4	n/a	U
S10V002453		O	129-00-0	Pyrene	ug/kg	80.1	<62.9	<62.7	n/a	n/a	n/a	88.6	62.7	n/a	U
S10V002453		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	U
S10V002453		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V002453		O	128-37-0	BHT	ug/kg	n/a	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S10V002453		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V002453		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V002453		O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V002453		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V002453		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<459	n/a	n/a	n/a	n/a	459	n/a	U
S10V002454		W	16984-48-8	Fluoride	ug/g	98.6	<1.61E-03	1.56	n/a	n/a	n/a	n/a	0.0160	n/a	
S10V002454		W	GLYCOLAT	Glycolate	ug/g	98.0	<9.37E-03	<0.0931	n/a	n/a	n/a	n/a	0.0931	n/a	U
S10V002454		W	71-50-1	Acetate	ug/g	95.0	<6.04E-03	<0.0600	n/a	n/a	n/a	n/a	0.0600	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C57

Sample Depth: 45-47

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002454	W	FORMATE	Formate	ug/g	99.0	<4.67E-03	0.163	n/a	n/a	n/a	n/a	0.0464	n/a	B
S10V002454	W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	2.18	n/a	n/a	n/a	n/a	0.0992	n/a	
S10V002454	W	14797-65-0	Nitrite	ug/g	97.3	<0.0192	0.842	n/a	n/a	n/a	n/a	0.191	n/a	B
S10V002454	W	14808-79-8	Sulfate	ug/g	99.3	<0.0187	109	n/a	n/a	n/a	n/a	0.186	n/a	
S10V002454	W	338-70-5	Oxalate	ug/g	99.8	<0.0231	<0.230	n/a	n/a	n/a	n/a	0.230	n/a	U
S10V002454	W	24959-67-9	Bromide	ug/g	97.9	<0.0580	<0.576	n/a	n/a	n/a	n/a	0.576	n/a	U
S10V002454	W	14797-55-8	Nitrate	ug/g	98.3	<0.0208	9.34	n/a	n/a	n/a	n/a	0.207	n/a	
S10V002454	W	14265-44-2	Phosphate	ug/g	98.0	<0.0167	0.834	n/a	n/a	n/a	n/a	0.166	n/a	B
S10V002455	A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.96E+03	n/a	n/a	n/a	n/a	2.47	n/a	
S10V002455	A	7440-39-3	Barium	ug/g	102	<3.00E-03	72.8	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002455	A	7440-41-7	Beryllium	ug/g	106	<1.00E-03	0.193	n/a	n/a	n/a	n/a	0.0825	n/a	B
S10V002455	A	7440-70-2	Calcium	ug/g	91.9	<0.0500	7.21E+03	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002455	A	7440-45-1	Cerium	ug/g	101	<0.0300	14.9	n/a	n/a	n/a	n/a	2.47	n/a	B
S10V002455	A	7440-48-4	Cobalt	ug/g	98.4	0.0122	7.34	n/a	n/a	n/a	n/a	0.825	n/a	B
S10V002455	A	7440-47-3	Chromium	ug/g	97.7	<5.00E-03	17.6	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002455	A	7440-50-8	Copper	ug/g	102	<5.00E-03	11.9	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002455	A	7439-89-6	Iron	ug/g	98.2	5.24E-03	1.59E+04	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002455	A	7440-09-7	Potassium	ug/g	89.7	<0.500	1.09E+03	n/a	n/a	n/a	n/a	41.2	n/a	
S10V002455	A	7439-91-0	Lanthanum	ug/g	102	<3.00E-03	6.78	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002455	A	7439-93-2	Lithium	ug/g	108	<3.00E-03	8.72	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002455	A	7439-95-4	Magnesium	ug/g	95.5	<0.0500	4.62E+03	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002455	A	7439-96-5	Manganese	ug/g	97.0	<3.00E-03	320	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002455	A	7439-98-7	Molybdenum	ug/g	108	<0.0200	<1.65	n/a	n/a	n/a	n/a	1.65	n/a	U
S10V002455	A	7440-23-5	Sodium	ug/g	107	<0.100	151	n/a	n/a	n/a	n/a	8.25	n/a	
S10V002455	A	7440-02-0	Nickel	ug/g	95.7	<0.0200	16.4	n/a	n/a	n/a	n/a	1.65	n/a	B
S10V002455	A	7723-14-0	Phosphorus	ug/g	106	<0.0500	578	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002455	A	7440-18-8	Ruthenium	ug/g	91.7	<0.0300	18.2	n/a	n/a	n/a	n/a	2.47	n/a	B
S10V002455	A	7704-34-9	Sulfur	ug/g	106	<0.100	84.0	n/a	n/a	n/a	n/a	8.25	n/a	
S10V002455	A	7440-21-3	Silicon	ug/g	89.3	<0.0300	144	n/a	n/a	n/a	n/a	2.47	n/a	

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C57

Sample Depth: 45-47

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002455	A	7440-24-6	Strontium	ug/g	102	<3.00E-03	34.5	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002455	A	7440-32-6	Titanium	ug/g	107	<5.00E-03	653	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002455	A	7440-62-2	Vanadium	ug/g	100	<5.00E-03	31.0	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002455	A	7440-65-5	Yttrium	ug/g	93.7	<2.00E-03	6.26	n/a	n/a	n/a	n/a	0.165	n/a	
S10V002455	A	7440-66-6	Zinc	ug/g	96.7	<5.00E-03	33.3	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002455	A	7440-67-7	Zirconium	ug/g	105	<5.00E-03	9.26	n/a	n/a	n/a	n/a	0.412	n/a	N
S10V002455	A	14269-63-7	Thorium-230	ug/g	n/a	5.21E-06	3.74E-05	n/a	n/a	n/a	n/a	2.78E-05	n/a	B
S10V002455	A	TH-232	Thorium-232	ug/g	104	<2.00E-04	2.69	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002455	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	2.03E-04	n/a	n/a	n/a	n/a	3.97E-05	n/a	
S10V002455	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	2.00E-05	n/a	n/a	n/a	n/a	1.99E-05	n/a	
S10V002455	A	15117-96-1	Uranium-235	ug/g	94.8	<4.00E-06	3.22E-03	n/a	n/a	n/a	n/a	3.97E-05	n/a	
S10V002455	A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.59E-05	n/a	n/a	n/a	n/a	1.59E-05	n/a	U
S10V002455	A	13994-20-2	Neptunium-237	ug/g	102	<4.00E-05	<3.97E-04	n/a	n/a	n/a	n/a	3.97E-04	n/a	U
S10V002455	A	U-238	Uranium-238	ug/g	104	<2.00E-04	0.456	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002455	A	7440-43-9	Cadmium	ug/g	104	<3.60E-03	0.108	n/a	n/a	n/a	n/a	0.0238	n/a	B
S10V002455	A	7439-92-1	Lead	ug/g	97.1	<6.00E-03	6.40	n/a	n/a	n/a	n/a	0.0596	n/a	
S10V002455	A	7440-28-0	Thallium	ug/g	103	<8.00E-04	0.140	n/a	n/a	n/a	n/a	0.0159	n/a	B
S10V002456	S	14798-03-9	Ammonium	ug/g	104	0.0279	1.86	n/a	n/a	n/a	n/a	0.467	n/a	CB
S10V002457	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<3.00E-04	n/a	n/a	n/a	n/a	3.00E-04	n/a	U
S10V002457	A	SN-117	Tin-117	ug/g	102	<1.00E-03	<1.00E-02	n/a	n/a	n/a	n/a	0.0100	n/a	U
S10V002457	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	4.09E-04	n/a	n/a	n/a	n/a	2.00E-04	n/a	BE
S10V002458	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.19E-07	<1.98E-07	n/a	n/a	n/a	n/a	1.98E-07	n/a	U
S10V002458	E	14596-10-2	Americium-241	uCi/g	103	<5.46E-07	<4.94E-07	n/a	n/a	n/a	n/a	4.94E-07	n/a	U
S10V002458	E	15510-73-3	Curium-242	uCi/g	n/a	<2.19E-07	<1.98E-07	n/a	n/a	n/a	n/a	1.98E-07	n/a	U
S10V002458	E	PU-239/240	Plutonium-239/240	uCi/g	98.9	<5.46E-07	<3.99E-07	n/a	n/a	n/a	n/a	3.99E-07	n/a	U
S10V002458	E	13981-16-3	Plutonium-238	uCi/g	n/a	<5.46E-07	<3.99E-07	n/a	n/a	n/a	n/a	3.99E-07	n/a	U
S10V002459	E	SR-89/90	Strontium-89/90	uCi/g	101	<2.09E-07	<1.88E-07	n/a	n/a	n/a	n/a	1.88E-07	n/a	U
S10V002460	E	13981-37-8	Nickel-63	uCi/g	90.8	<3.89E-06	<3.61E-06	n/a	n/a	n/a	n/a	3.61E-06	n/a	U
S10V002460	E	15758-45-9	Selenium-79	uCi/g	n/a	<2.73E-06	<1.70E-06	n/a	n/a	n/a	n/a	1.70E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C57 WE

Sample Depth: 45-47

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002450		WV	14133-76-7	Technetium-99	ug/g	110	<3.00E-06	<3.10E-06	n/a	n/a	n/a	n/a	3.10E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C58

Sample Depth: 45-47

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002442			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0806	n/a	n/a	n/a	n/a	0.0806	n/a	U
S10V002442			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S10V002442			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.185	n/a	n/a	n/a	n/a	0.185	n/a	U
S10V002442			75-35-4	1,1-Dichloroethene	ug/kg	105	<0.423	<0.371	n/a	n/a	n/a	n/a	0.371	n/a	U
S10V002442			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0471	n/a	n/a	n/a	n/a	0.0471	n/a	U
S10V002442			71-36-3	1-Butanol	ug/kg	112	<10.3	<9.01	n/a	n/a	n/a	n/a	9.01	n/a	U
S10V002442			108-10-1	Hexone	ug/kg	105	<1.71	<1.50	n/a	n/a	n/a	n/a	1.50	n/a	U
S10V002442			67-64-1	Acetone	ug/kg	91.5	<2.20	<1.93	n/a	n/a	n/a	n/a	1.93	n/a	U
S10V002442			71-43-2	Benzene	ug/kg	106	<0.147	<0.129	n/a	n/a	n/a	n/a	0.129	n/a	U
S10V002442			75-15-0	Carbon disulfide	ug/kg	n/a	0.801	<0.141	n/a	n/a	n/a	n/a	0.141	n/a	U
S10V002442			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0818	n/a	n/a	n/a	n/a	0.0818	n/a	U
S10V002442			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S10V002442			108-90-7	Chlorobenzene	ug/kg	101	<0.0864	<0.0757	n/a	n/a	n/a	n/a	0.0757	n/a	U
S10V002442			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.0939	n/a	n/a	n/a	n/a	0.0939	n/a	U
S10V002442			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S10V002442			78-93-3	2-Butanone	ug/kg	102	<1.96	<1.72	n/a	n/a	n/a	n/a	1.72	n/a	U
S10V002442			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0560	n/a	n/a	n/a	n/a	0.0560	n/a	U
S10V002442			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.0961	n/a	n/a	n/a	n/a	0.0961	n/a	U
S10V002442			100-42-5	Styrene	ug/kg	n/a	0.348	0.341	n/a	n/a	n/a	n/a	0.111	n/a	BJ
S10V002442			109-99-9	Tetrahydrofuran	ug/kg	n/a	<0.649	27.4	n/a	n/a	n/a	n/a	0.568	n/a	
S10V002442			108-88-3	Toluene	ug/kg	103	0.159	0.500	n/a	n/a	n/a	n/a	0.0702	n/a	BJ
S10V002442			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.237	n/a	n/a	n/a	n/a	0.237	n/a	U
S10V002442			79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.106	n/a	n/a	n/a	n/a	0.106	n/a	U
S10V002442			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.152	n/a	n/a	n/a	n/a	0.152	n/a	U
S10V002442			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S10V002442			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.265	n/a	n/a	n/a	n/a	0.265	n/a	U
S10V002442			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.102	n/a	n/a	n/a	n/a	0.102	n/a	U
S10V002442			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.515	n/a	n/a	n/a	n/a	0.515	n/a	U
S10V002442			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.514	n/a	n/a	n/a	n/a	0.514	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C58

Sample Depth: 45-47

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002442			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S10V002442			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0823	n/a	n/a	n/a	n/a	0.0823	n/a	U
S10V002442			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0806	n/a	n/a	n/a	n/a	0.0806	n/a	U
S10V002442			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.147	n/a	n/a	n/a	n/a	0.147	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C59

Sample Depth: 88-90

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002467		%WATERA	%WATER-APD	%	n/a	n/a	4.150	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002467		57-12-5	Cyanide	ug/g	105	<0.0370	<2.58	n/a	n/a	n/a	n/a	2.58	n/a	U
S10V002467		7439-97-6	Mercury	ug/g	87.7	<1.00E-04	<9.63E-03	n/a	n/a	n/a	n/a	9.63E-03	n/a	U
S10V002467		PH	pH	unitless	n/a	n/a	8.59	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002467		12597-04-5	Sulfide	ug/g	96.1	<0.180	8.04	n/a	n/a	n/a	n/a	7.10	n/a	B
S10V002468		13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.88E-05	1.76E-05	n/a	n/a	n/a	7.75E-06	28.59	
S10V002468		10198-40-0	Cobalt-60	uCi/g	98.2	<3.92E-07	<3.95E-07	<3.81E-07	n/a	n/a	n/a	3.95E-07	n/a	U
S10V002468		14234-35-6	Antimony-125	uCi/g	n/a	<1.02E-06	<1.05E-06	<1.02E-06	n/a	n/a	n/a	1.05E-06	n/a	U
S10V002468		10045-97-3	Cesium-137	uCi/g	100	<5.19E-07	<5.86E-07	<5.37E-07	n/a	n/a	n/a	5.86E-07	n/a	U
S10V002468		14683-23-9	Europium-152	uCi/g	n/a	<1.88E-06	<1.92E-06	<1.99E-06	n/a	n/a	n/a	1.92E-06	n/a	U
S10V002468		15585-10-1	Europium-154	uCi/g	n/a	<1.08E-06	<1.38E-06	<1.19E-06	n/a	n/a	n/a	1.38E-06	n/a	U
S10V002468		14391-16-3	Europium-155	uCi/g	n/a	<9.28E-07	<1.03E-06	<1.02E-06	n/a	n/a	n/a	1.03E-06	n/a	U
S10V002468		14274-82-9	Thorium-228	uCi/g	n/a	<2.19E-05	<2.43E-05	<2.43E-05	n/a	n/a	n/a	2.43E-05	n/a	U
S10V002468		15065-10-8	Thorium-234	uCi/g	n/a	<1.82E-05	<2.01E-05	<1.87E-05	n/a	n/a	n/a	2.01E-05	n/a	U
S10V002468		15046-84-1	Iodine-129	uCi/g	113	<1.93E-07	<1.65E-07	n/a	n/a	n/a	n/a	1.65E-07	n/a	U
S10V002470	W	14762-75-5	Carbon-14	uCi/g	92.4	<1.33E-07	<1.31E-06	n/a	n/a	n/a	n/a	1.31E-06	n/a	U
S10V002470	W	10028-17-8	Tritium	uCi/g	94.7	<4.95E-06	2.68E-06	n/a	n/a	n/a	n/a	2.50E-06	164.945	
S10V002471	A	7440-36-0	Antimony	ug/g	99.9	<2.00E-04	0.170	n/a	n/a	n/a	n/a	9.84E-03	n/a	
S10V002472	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	60.8	<77.4	<76.5	n/a	n/a	n/a	n/a	76.5	n/a	U
S10V002472	O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.5	n/a	n/a	n/a	n/a	99.5	n/a	U
S10V002472	O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.2	<38.1	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V002472	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S10V002472	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.9	n/a	n/a	n/a	n/a	48.9	n/a	U
S10V002472	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.8	n/a	n/a	n/a	n/a	56.8	n/a	U
S10V002472	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.1	n/a	n/a	n/a	n/a	53.1	n/a	U
S10V002472	O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V002472	O	83-32-9	Acenaphthene	ug/kg	68.8	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S10V002472	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.4	n/a	n/a	n/a	n/a	37.4	n/a	U
S10V002472	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C59

Sample Depth: 88-90

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002472	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.7	n/a	n/a	n/a	n/a	40.7	n/a	U
S10V002472	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<583	n/a	n/a	n/a	n/a	583	n/a	U
S10V002472	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.7	n/a	n/a	n/a	n/a	38.7	n/a	U
S10V002472	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S10V002472	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.4	<43.2	<42.7	n/a	n/a	n/a	n/a	42.7	n/a	U
S10V002472	O	95-57-8	2-Chlorophenol	ug/kg	67.6	<66.5	<65.7	n/a	n/a	n/a	n/a	65.7	n/a	U
S10V002472	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.5	n/a	n/a	n/a	n/a	80.5	n/a	U
S10V002472	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S10V002472	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V002472	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S10V002472	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	61.9	<58.1	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S10V002472	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.0	n/a	n/a	n/a	n/a	35.0	n/a	U
S10V002472	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.9	n/a	n/a	n/a	n/a	68.9	n/a	U
S10V002472	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V002472	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S10V002472	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.9	n/a	n/a	n/a	n/a	61.9	n/a	U
S10V002472	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S10V002472	O	129-00-0	Pyrene	ug/kg	80.1	<62.9	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S10V002472	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S10V002472	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V002472	O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S10V002472	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S10V002472	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S10V002472	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<552	n/a	n/a	n/a	n/a	552	n/a	U
S10V002472	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S10V002472	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
S10V002473	W	16984-48-8	Fluoride	ug/g	98.6	<1.61E-03	0.739	n/a	n/a	n/a	n/a	0.0160	n/a	
S10V002473	W	GLYCOLAT	Glycolate	ug/g	98.0	<9.37E-03	<0.0933	n/a	n/a	n/a	n/a	0.0933	n/a	U
S10V002473	W	71-50-1	Acetate	ug/g	95.0	<6.04E-03	0.202	n/a	n/a	n/a	n/a	0.0602	n/a	B

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C59

Sample Depth: 88-90

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002473	W	FORMATE	Formate	ug/g	99.0	<4.67E-03	0.204	n/a	n/a	n/a	n/a	0.0465	n/a	B
S10V002473	W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	9.75	n/a	n/a	n/a	n/a	0.0994	n/a	
S10V002473	W	14797-65-0	Nitrite	ug/g	97.3	<0.0192	1.24	n/a	n/a	n/a	n/a	0.191	n/a	B
S10V002473	W	14808-79-8	Sulfate	ug/g	99.3	<0.0187	96.7	n/a	n/a	n/a	n/a	0.186	n/a	
S10V002473	W	338-70-5	Oxalate	ug/g	99.8	<0.0231	<0.230	n/a	n/a	n/a	n/a	0.230	n/a	U
S10V002473	W	24959-67-9	Bromide	ug/g	97.9	<0.0580	<0.578	n/a	n/a	n/a	n/a	0.578	n/a	U
S10V002473	W	14797-55-8	Nitrate	ug/g	98.3	<0.0208	19.2	n/a	n/a	n/a	n/a	0.207	n/a	
S10V002473	W	14265-44-2	Phosphate	ug/g	98.0	<0.0167	<0.166	n/a	n/a	n/a	n/a	0.166	n/a	U
S10V002474	A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	6.36E+03	n/a	n/a	n/a	n/a	2.48	n/a	
S10V002474	A	7440-39-3	Barium	ug/g	102	<3.00E-03	64.3	n/a	n/a	n/a	n/a	0.248	n/a	
S10V002474	A	7440-41-7	Beryllium	ug/g	106	<1.00E-03	0.160	n/a	n/a	n/a	n/a	0.0825	n/a	B
S10V002474	A	7440-70-2	Calcium	ug/g	91.9	<0.0500	7.87E+03	n/a	n/a	n/a	n/a	4.13	n/a	
S10V002474	A	7440-45-1	Cerium	ug/g	101	<0.0300	13.3	n/a	n/a	n/a	n/a	2.48	n/a	B
S10V002474	A	7440-48-4	Cobalt	ug/g	98.4	0.0122	5.43	n/a	n/a	n/a	n/a	0.825	n/a	B
S10V002474	A	7440-47-3	Chromium	ug/g	97.7	<5.00E-03	24.6	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002474	A	7440-50-8	Copper	ug/g	102	<5.00E-03	10.1	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002474	A	7439-89-6	Iron	ug/g	98.2	5.24E-03	1.41E+04	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002474	A	7440-09-7	Potassium	ug/g	89.7	<0.500	1.16E+03	n/a	n/a	n/a	n/a	41.3	n/a	
S10V002474	A	7439-91-0	Lanthanum	ug/g	102	<3.00E-03	6.39	n/a	n/a	n/a	n/a	0.248	n/a	
S10V002474	A	7439-93-2	Lithium	ug/g	108	<3.00E-03	9.71	n/a	n/a	n/a	n/a	0.248	n/a	
S10V002474	A	7439-95-4	Magnesium	ug/g	95.5	<0.0500	4.80E+03	n/a	n/a	n/a	n/a	4.13	n/a	
S10V002474	A	7439-96-5	Manganese	ug/g	97.0	<3.00E-03	283	n/a	n/a	n/a	n/a	0.248	n/a	
S10V002474	A	7439-98-7	Molybdenum	ug/g	108	<0.0200	<1.65	n/a	n/a	n/a	n/a	1.65	n/a	U
S10V002474	A	7440-23-5	Sodium	ug/g	107	<0.100	145	n/a	n/a	n/a	n/a	8.25	n/a	
S10V002474	A	7440-02-0	Nickel	ug/g	95.7	<0.0200	18.2	n/a	n/a	n/a	n/a	1.65	n/a	
S10V002474	A	7723-14-0	Phosphorus	ug/g	106	<0.0500	479	n/a	n/a	n/a	n/a	4.13	n/a	
S10V002474	A	7704-34-9	Sulfur	ug/g	106	<0.100	62.5	n/a	n/a	n/a	n/a	8.25	n/a	B
S10V002474	A	7440-21-3	Silicon	ug/g	89.3	<0.0300	58.7	n/a	n/a	n/a	n/a	2.48	n/a	
S10V002474	A	7440-24-6	Strontium	ug/g	102	<3.00E-03	34.0	n/a	n/a	n/a	n/a	0.248	n/a	

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C59

Sample Depth: 88-90

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002474		A	7440-32-6	Titanium	ug/g	107	<5.00E-03	561	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002474		A	7440-62-2	Vanadium	ug/g	100	<5.00E-03	25.8	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002474		A	7440-65-5	Yttrium	ug/g	93.7	<2.00E-03	4.91	n/a	n/a	n/a	n/a	0.165	n/a	
S10V002474		A	7440-66-6	Zinc	ug/g	96.7	<5.00E-03	33.0	n/a	n/a	n/a	n/a	0.413	n/a	
S10V002474		A	7440-67-7	Zirconium	ug/g	105	<5.00E-03	5.24	n/a	n/a	n/a	n/a	0.413	n/a	N
S10V002474		A	14269-63-7	Thorium-230	ug/g	n/a	5.21E-06	8.71E-05	n/a	n/a	n/a	n/a	2.81E-05	n/a	B
S10V002474		A	TH-232	Thorium-232	ug/g	104	<2.00E-04	4.01	n/a	n/a	n/a	n/a	2.00E-03	n/a	
S10V002474		A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	2.11E-04	n/a	n/a	n/a	n/a	4.01E-05	n/a	
S10V002474		A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	3.77E-05	n/a	n/a	n/a	n/a	2.00E-05	n/a	
S10V002474		A	15117-96-1	Uranium-235	ug/g	94.8	<4.00E-06	3.41E-03	n/a	n/a	n/a	n/a	4.01E-05	n/a	
S10V002474		A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	2.19E-05	n/a	n/a	n/a	n/a	1.60E-05	n/a	B
S10V002474		A	13994-20-2	Neptunium-237	ug/g	102	<4.00E-05	<4.01E-04	n/a	n/a	n/a	n/a	4.01E-04	n/a	U
S10V002474		A	U-238	Uranium-238	ug/g	104	<2.00E-04	0.513	n/a	n/a	n/a	n/a	2.00E-03	n/a	
S10V002475		S	14798-03-9	Ammonium	ug/g	104	0.0279	1.60	n/a	n/a	n/a	n/a	0.477	n/a	CB
S10V002476		A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<2.97E-04	n/a	n/a	n/a	n/a	2.97E-04	n/a	U
S10V002476		A	SN-117	Tin-117	ug/g	102	<1.00E-03	<9.90E-03	n/a	n/a	n/a	n/a	9.90E-03	n/a	U
S10V002476		A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	4.55E-04	n/a	n/a	n/a	n/a	1.98E-04	n/a	BE
S10V002477		E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.19E-07	<2.43E-07	<1.67E-07	n/a	n/a	n/a	2.43E-07	n/a	U
S10V002477		E	14596-10-2	Americium-241	uCi/g	103	<5.46E-07	<6.09E-07	<4.16E-07	n/a	n/a	n/a	6.09E-07	n/a	U
S10V002477		E	15510-73-3	Curium-242	uCi/g	n/a	<2.19E-07	<2.43E-07	<1.67E-07	n/a	n/a	n/a	2.44E-07	n/a	U
S10V002477		E	PU-239/240	Plutonium-239/240	uCi/g	98.9	<5.46E-07	<4.67E-07	<2.98E-07	n/a	n/a	n/a	4.67E-07	n/a	U
S10V002477		E	13981-16-3	Plutonium-238	uCi/g	n/a	<5.46E-07	<4.67E-07	<2.98E-07	n/a	n/a	n/a	4.67E-07	n/a	U
S10V002478		E	SR-89/90	Strontium-89/90	uCi/g	101	<2.09E-07	<7.13E-07	<5.62E-07	n/a	n/a	n/a	7.13E-07	n/a	U
S10V002479		E	13981-37-8	Nickel-63	uCi/g	90.8	<3.89E-06	<5.10E-06	<4.89E-06	n/a	n/a	n/a	5.10E-06	n/a	U
S10V002479		E	15758-45-9	Selenium-79	uCi/g	n/a	<2.73E-06	<2.45E-06	<4.03E-06	n/a	n/a	n/a	2.45E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C59 WE

Sample Depth: 88-90

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002469		WV	14133-76-7	Technetium-99	ug/g	110	<3.00E-06	<3.02E-06	n/a	n/a	n/a	n/a	3.02E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C60

Sample Depth: 88-90

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002461			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.125	n/a	n/a	n/a	n/a	0.125	n/a	U
S10V002461			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.225	n/a	n/a	n/a	n/a	0.225	n/a	U
S10V002461			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.288	n/a	n/a	n/a	n/a	0.288	n/a	U
S10V002461			75-35-4	1,1-Dichloroethene	ug/kg	105	<0.423	<0.575	n/a	n/a	n/a	n/a	0.575	n/a	U
S10V002461			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0731	n/a	n/a	n/a	n/a	0.0731	n/a	U
S10V002461			71-36-3	1-Butanol	ug/kg	112	<10.3	<14.0	n/a	n/a	n/a	n/a	14.0	n/a	U
S10V002461			108-10-1	Hexone	ug/kg	105	<1.71	<2.32	n/a	n/a	n/a	n/a	2.32	n/a	U
S10V002461			67-64-1	Acetone	ug/kg	91.5	<2.20	<2.99	n/a	n/a	n/a	n/a	2.99	n/a	U
S10V002461			71-43-2	Benzene	ug/kg	106	<0.147	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S10V002461			75-15-0	Carbon disulfide	ug/kg	n/a	0.801	<0.218	n/a	n/a	n/a	n/a	0.218	n/a	U
S10V002461			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.127	n/a	n/a	n/a	n/a	0.127	n/a	U
S10V002461			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S10V002461			108-90-7	Chlorobenzene	ug/kg	101	<0.0864	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S10V002461			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.146	n/a	n/a	n/a	n/a	0.146	n/a	U
S10V002461			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.276	n/a	n/a	n/a	n/a	0.276	n/a	U
S10V002461			78-93-3	2-Butanone	ug/kg	102	<1.96	<2.67	n/a	n/a	n/a	n/a	2.67	n/a	U
S10V002461			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0870	n/a	n/a	n/a	n/a	0.0870	n/a	U
S10V002461			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S10V002461			100-42-5	Styrene	ug/kg	n/a	0.348	0.417	n/a	n/a	n/a	n/a	0.172	n/a	BJ
S10V002461			108-88-3	Toluene	ug/kg	103	0.159	0.438	n/a	n/a	n/a	n/a	0.109	n/a	BJ
S10V002461			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.368	n/a	n/a	n/a	n/a	0.368	n/a	U
S10V002461			79-01-6	Trichloroethene	ug/kg	104	<0.121	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S10V002461			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.236	n/a	n/a	n/a	n/a	0.236	n/a	U
S10V002461			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.247	n/a	n/a	n/a	n/a	0.247	n/a	U
S10V002461			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.412	n/a	n/a	n/a	n/a	0.412	n/a	U
S10V002461			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.158	n/a	n/a	n/a	n/a	0.158	n/a	U
S10V002461			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.799	n/a	n/a	n/a	n/a	0.799	n/a	U
S10V002461			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.798	n/a	n/a	n/a	n/a	0.798	n/a	U
S10V002461			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.348	n/a	n/a	n/a	n/a	0.348	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C60

Sample Depth: 88-90

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002461			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.128	n/a	n/a	n/a	n/a	0.128	n/a	U
S10V002461			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.125	n/a	n/a	n/a	n/a	0.125	n/a	U
S10V002461			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C61

Sample Depth: 122-124

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002486			%WATERA	%WATER-APD	%	n/a	n/a	3.230	n/a	n/a	n/a	n/a	0.01000	n/a	
S10V002486			57-12-5	Cyanide	ug/g	105	<0.0370	<2.65	n/a	n/a	n/a	n/a	2.65	n/a	U
S10V002486			7439-97-6	Mercury	ug/g	87.7	<1.00E-04	<9.93E-03	n/a	n/a	n/a	n/a	9.93E-03	n/a	U
S10V002486			PH	pH	unitless	n/a	n/a	9.07	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002486			12597-04-5	Sulfide	ug/g	91.9	<0.180	7.08	8.25	7.66	15.3	93.0	7.08	n/a	B
S10V002487			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.24E-05	n/a	n/a	n/a	n/a	8.26E-06	43.16	
S10V002487			10198-40-0	Cobalt-60	uCi/g	98.2	<3.92E-07	<4.13E-07	n/a	n/a	n/a	n/a	4.13E-07	n/a	U
S10V002487			14234-35-6	Antimony-125	uCi/g	n/a	<1.02E-06	<1.01E-06	n/a	n/a	n/a	n/a	1.01E-06	n/a	U
S10V002487			10045-97-3	Cesium-137	uCi/g	100	<5.19E-07	<5.39E-07	n/a	n/a	n/a	n/a	5.39E-07	n/a	U
S10V002487			14683-23-9	Europium-152	uCi/g	n/a	<1.88E-06	<1.80E-06	n/a	n/a	n/a	n/a	1.80E-06	n/a	U
S10V002487			15585-10-1	Europium-154	uCi/g	n/a	<1.08E-06	<1.35E-06	n/a	n/a	n/a	n/a	1.35E-06	n/a	U
S10V002487			14391-16-3	Europium-155	uCi/g	n/a	<9.28E-07	<1.01E-06	n/a	n/a	n/a	n/a	1.01E-06	n/a	U
S10V002487			14274-82-9	Thorium-228	uCi/g	n/a	<2.19E-05	<2.50E-05	n/a	n/a	n/a	n/a	2.50E-05	n/a	U
S10V002487			15065-10-8	Thorium-234	uCi/g	n/a	<1.82E-05	<1.91E-05	n/a	n/a	n/a	n/a	1.91E-05	n/a	U
S10V002487			15046-84-1	Iodine-129	uCi/g	113	<1.93E-07	<1.76E-07	n/a	n/a	n/a	n/a	1.76E-07	n/a	U
S10V002489		W	14762-75-5	Carbon-14	uCi/g	92.4	<1.33E-07	<1.34E-06	n/a	n/a	n/a	n/a	1.34E-06	n/a	U
S10V002489		W	10028-17-8	Tritium	uCi/g	94.7	<4.95E-06	<4.43E-06	n/a	n/a	n/a	n/a	4.43E-06	n/a	U
S10V002490		A	7440-36-0	Antimony	ug/g	99.9	<2.00E-04	0.181	n/a	n/a	n/a	n/a	9.57E-03	n/a	
S10V002491		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	60.1	<77.4	<77.1	n/a	n/a	n/a	59.6	77.1	n/a	U
S10V002491		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<100	n/a	n/a	n/a	n/a	100	n/a	U
S10V002491		O	121-14-2	2,4-Dinitrotoluene	ug/kg	77.8	<38.1	<38.0	n/a	n/a	n/a	78.4	38.0	n/a	U
S10V002491		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.8	n/a	n/a	n/a	n/a	43.8	n/a	U
S10V002491		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S10V002491		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.3	n/a	n/a	n/a	n/a	57.3	n/a	U
S10V002491		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.5	n/a	n/a	n/a	n/a	53.5	n/a	U
S10V002491		O	65794-96-9	3 &4 Methylphenol	ug/kg	n/a	<51.4	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S10V002491		O	83-32-9	Acenaphthene	ug/kg	68.0	<17.6	<17.5	n/a	n/a	n/a	67.2	17.5	n/a	U
S10V002491		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S10V002491		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C61

Sample Depth: 122-124

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002491	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S10V002491	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<588	n/a	n/a	n/a	n/a	588	n/a	U
S10V002491	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.0	n/a	n/a	n/a	n/a	39.0	n/a	U
S10V002491	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S10V002491	O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.7	<43.2	<43.0	n/a	n/a	n/a	65.5	43.0	n/a	U
S10V002491	O	95-57-8	2-Chlorophenol	ug/kg	68.0	<66.5	<66.3	n/a	n/a	n/a	70.1	66.3	n/a	U
S10V002491	O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.1	n/a	n/a	n/a	n/a	81.1	n/a	U
S10V002491	O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S10V002491	O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<560	n/a	n/a	n/a	n/a	560	n/a	U
S10V002491	O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.5	n/a	n/a	n/a	n/a	47.5	n/a	U
S10V002491	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	63.8	<58.1	<57.9	n/a	n/a	n/a	61.4	57.9	n/a	U
S10V002491	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S10V002491	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.4	n/a	n/a	n/a	n/a	69.4	n/a	U
S10V002491	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S10V002491	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S10V002491	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.4	n/a	n/a	n/a	n/a	62.4	n/a	U
S10V002491	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.4	n/a	n/a	n/a	n/a	64.4	n/a	U
S10V002491	O	129-00-0	Pyrene	ug/kg	86.3	<62.9	<62.7	n/a	n/a	n/a	75.9	62.7	n/a	U
S10V002491	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	U
S10V002491	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S10V002491	O	128-37-0	BHT	ug/kg	n/a	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S10V002491	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S10V002491	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S10V002491	O	108-94-1	Cyclohexanone	ug/kg	n/a	<558	<556	n/a	n/a	n/a	n/a	556	n/a	U
S10V002491	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S10V002491	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<459	n/a	n/a	n/a	n/a	459	n/a	U
S10V002492	W	16984-48-8	Fluoride	ug/g	103	<1.61E-03	0.825	0.899	0.862	8.61	93.1	0.0160	n/a	
S10V002492	W	GLYCOLAT	Glycolate	ug/g	101	<9.37E-03	<0.0933	<0.0928	n/a	n/a	97.3	0.0933	n/a	U
S10V002492	W	71-50-1	Acetate	ug/g	98.8	<6.04E-03	0.159	0.137	0.148	15.4	94.0	0.0601	n/a	B

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C61

Sample Depth: 122-124

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002492		W	FORMATE	Formate	ug/g	102	<4.67E-03	0.361	0.457	0.409	23.5	98.5	0.0465	n/a	B
S10V002492		W	16887-00-6	Chloride	ug/g	100	<9.98E-03	3.71	4.72	4.22	24.0	107	0.0993	n/a	
S10V002492		W	14797-65-0	Nitrite	ug/g	100	0.0449	0.276	0.375	0.325	30.7	95.2	0.191	n/a	CB
S10V002492		W	14808-79-8	Sulfate	ug/g	102	<0.0187	61.6	86.8	74.2	34.0	117	0.186	n/a	M
S10V002492		W	338-70-5	Oxalate	ug/g	101	<0.0231	0.739	1.40	1.07	61.9	96.6	0.230	n/a	B
S10V002492		W	24959-67-9	Bromide	ug/g	101	<0.0580	<0.577	<0.574	n/a	n/a	97.0	0.577	n/a	U
S10V002492		W	14797-55-8	Nitrate	ug/g	101	<0.0208	5.85	7.11	6.48	19.5	98.8	0.207	n/a	
S10V002492		W	14265-44-2	Phosphate	ug/g	101	<0.0167	0.460	0.366	0.413	22.9	77.6	0.166	n/a	B
S10V002493		A	7429-90-5	Aluminum	ug/g	94.0	<0.0300	5.55E+03	n/a	n/a	n/a	n/a	2.47	n/a	
S10V002493		A	7440-39-3	Barium	ug/g	102	<3.00E-03	61.1	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002493		A	7440-41-7	Beryllium	ug/g	106	<1.00E-03	0.148	n/a	n/a	n/a	n/a	0.0824	n/a	B
S10V002493		A	7440-70-2	Calcium	ug/g	91.9	<0.0500	8.57E+03	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002493		A	7440-45-1	Cerium	ug/g	101	<0.0300	12.8	n/a	n/a	n/a	n/a	2.47	n/a	B
S10V002493		A	7440-48-4	Cobalt	ug/g	98.4	0.0122	4.50	n/a	n/a	n/a	n/a	0.824	n/a	CB
S10V002493		A	7440-47-3	Chromium	ug/g	97.7	<5.00E-03	12.2	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002493		A	7440-50-8	Copper	ug/g	102	<5.00E-03	9.33	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002493		A	7439-89-6	Iron	ug/g	98.2	5.24E-03	1.42E+04	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002493		A	7440-09-7	Potassium	ug/g	89.7	<0.500	934	n/a	n/a	n/a	n/a	41.2	n/a	
S10V002493		A	7439-91-0	Lanthanum	ug/g	102	<3.00E-03	6.53	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002493		A	7439-93-2	Lithium	ug/g	108	<3.00E-03	8.63	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002493		A	7439-95-4	Magnesium	ug/g	95.5	<0.0500	4.60E+03	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002493		A	7439-96-5	Manganese	ug/g	97.0	<3.00E-03	251	n/a	n/a	n/a	n/a	0.247	n/a	
S10V002493		A	7439-98-7	Molybdenum	ug/g	108	<0.0200	<1.65	n/a	n/a	n/a	n/a	1.65	n/a	U
S10V002493		A	7440-23-5	Sodium	ug/g	107	<0.100	139	n/a	n/a	n/a	n/a	8.24	n/a	
S10V002493		A	7440-02-0	Nickel	ug/g	95.7	<0.0200	12.1	n/a	n/a	n/a	n/a	1.65	n/a	B
S10V002493		A	7723-14-0	Phosphorus	ug/g	106	<0.0500	534	n/a	n/a	n/a	n/a	4.12	n/a	
S10V002493		A	7704-34-9	Sulfur	ug/g	106	<0.100	60.2	n/a	n/a	n/a	n/a	8.24	n/a	B
S10V002493		A	7440-21-3	Silicon	ug/g	89.3	<0.0300	86.1	n/a	n/a	n/a	n/a	2.47	n/a	
S10V002493		A	7440-24-6	Strontium	ug/g	102	<3.00E-03	29.3	n/a	n/a	n/a	n/a	0.247	n/a	

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Data Summary Report

Sample Group: 20100660
Core Number: C7682
Customer Sample ID: B26C61
Sample Depth: 122-124

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002493	A	7440-32-6	Titanium	ug/g	107	<5.00E-03	621	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002493	A	7440-62-2	Vanadium	ug/g	100	<5.00E-03	25.6	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002493	A	7440-65-5	Yttrium	ug/g	93.7	<2.00E-03	5.47	n/a	n/a	n/a	n/a	0.165	n/a	
S10V002493	A	7440-66-6	Zinc	ug/g	96.7	<5.00E-03	30.9	n/a	n/a	n/a	n/a	0.412	n/a	
S10V002493	A	7440-67-7	Zirconium	ug/g	105	<5.00E-03	6.38	n/a	n/a	n/a	n/a	0.412	n/a	N
S10V002493	A	14269-63-7	Thorium-230	ug/g	n/a	5.21E-06	4.77E-05	n/a	n/a	n/a	n/a	2.79E-05	n/a	B
S10V002493	A	TH-232	Thorium-232	ug/g	104	<2.00E-04	3.83	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002493	A	13968-55-3	Uranium-233	ug/g	n/a	<4.00E-06	2.05E-04	n/a	n/a	n/a	n/a	3.99E-05	n/a	
S10V002493	A	13966-29-5	Uranium-234	ug/g	n/a	<2.00E-06	<1.99E-05	n/a	n/a	n/a	n/a	1.99E-05	n/a	U
S10V002493	A	15117-96-1	Uranium-235	ug/g	94.8	<4.00E-06	3.25E-03	n/a	n/a	n/a	n/a	3.99E-05	n/a	
S10V002493	A	13982-70-2	Uranium-236	ug/g	n/a	<1.60E-06	<1.59E-05	n/a	n/a	n/a	n/a	1.59E-05	n/a	U
S10V002493	A	13994-20-2	Neptunium-237	ug/g	102	<4.00E-05	<3.99E-04	n/a	n/a	n/a	n/a	3.99E-04	n/a	U
S10V002493	A	U-238	Uranium-238	ug/g	104	<2.00E-04	0.487	n/a	n/a	n/a	n/a	1.99E-03	n/a	
S10V002493	A	7440-43-9	Cadmium	ug/g	104	<3.60E-03	0.116	n/a	n/a	n/a	n/a	0.0239	n/a	B
S10V002493	A	7439-92-1	Lead	ug/g	97.1	<6.00E-03	8.57	n/a	n/a	n/a	n/a	0.0598	n/a	
S10V002493	A	7440-28-0	Thallium	ug/g	103	<8.00E-04	0.134	n/a	n/a	n/a	n/a	0.0159	n/a	B
S10V002494	S	14798-03-9	Ammonium	ug/g	96.2	0.340	2.70	n/a	n/a	n/a	n/a	0.470	n/a	CB
S10V002495	A	14133-76-7	Technetium-99	ug/g	109	<3.00E-05	<3.00E-04	n/a	n/a	n/a	n/a	3.00E-04	n/a	U
S10V002495	A	SN-117	Tin-117	ug/g	102	<1.00E-03	0.0110	n/a	n/a	n/a	n/a	0.0100	n/a	
S10V002495	A	15832-50-5	Tin-126	ug/g	n/a	<2.00E-05	6.74E-04	n/a	n/a	n/a	n/a	2.00E-04	n/a	BE
S10V002496	E	CM-243/244	Curium-243/244	uCi/g	n/a	<2.19E-07	<2.43E-07	n/a	n/a	n/a	n/a	2.43E-07	n/a	U
S10V002496	E	14596-10-2	Americium-241	uCi/g	103	<5.46E-07	<6.08E-07	n/a	n/a	n/a	n/a	6.08E-07	n/a	U
S10V002496	E	15510-73-3	Curium-242	uCi/g	n/a	<2.19E-07	<2.43E-07	n/a	n/a	n/a	n/a	2.43E-07	n/a	U
S10V002496	E	PU-239/240	Plutonium-239/240	uCi/g	98.9	<5.46E-07	<4.09E-07	n/a	n/a	n/a	n/a	4.09E-07	n/a	U
S10V002496	E	13981-16-3	Plutonium-238	uCi/g	n/a	<5.46E-07	<4.09E-07	n/a	n/a	n/a	n/a	4.09E-07	n/a	U
S10V002497	E	SR-89/90	Strontium-89/90	uCi/g	101	<2.09E-07	<6.51E-07	n/a	n/a	n/a	n/a	6.51E-07	n/a	U
S10V002498	E	13981-37-8	Nickel-63	uCi/g	90.8	<3.89E-06	<5.89E-06	n/a	n/a	n/a	n/a	5.89E-06	n/a	U
S10V002498	E	15758-45-9	Selenium-79	uCi/g	n/a	<2.73E-06	<5.09E-06	n/a	n/a	n/a	n/a	5.09E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C61 WE

Sample Depth: 122-124

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002488		WV	14133-76-7	Technetium-99	ug/g	110	<3.00E-06	<2.88E-06	n/a	n/a	n/a	n/a	2.88E-06	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C62

Sample Depth: 122-124

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002480			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.0920	<0.0906	n/a	n/a	n/a	n/a	0.0906	n/a	U
S10V002480			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.166	<0.163	n/a	n/a	n/a	n/a	0.163	n/a	U
S10V002480			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.212	<0.208	n/a	n/a	n/a	n/a	0.208	n/a	U
S10V002480			75-35-4	1,1-Dichloroethene	ug/kg	104	<0.423	<0.417	n/a	n/a	n/a	n/a	0.417	n/a	U
S10V002480			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.0538	<0.0530	n/a	n/a	n/a	n/a	0.0530	n/a	U
S10V002480			71-36-3	1-Butanol	ug/kg	117	<10.3	<10.1	n/a	n/a	n/a	n/a	10.1	n/a	U
S10V002480			108-10-1	Hexone	ug/kg	115	<1.71	<1.68	n/a	n/a	n/a	n/a	1.68	n/a	U
S10V002480			67-64-1	Acetone	ug/kg	108	<2.20	<2.16	n/a	n/a	n/a	n/a	2.16	n/a	U
S10V002480			71-43-2	Benzene	ug/kg	103	<0.147	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S10V002480			75-15-0	Carbon disulfide	ug/kg	n/a	<0.161	<0.158	n/a	n/a	n/a	n/a	0.158	n/a	U
S10V002480			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.0934	<0.0919	n/a	n/a	n/a	n/a	0.0919	n/a	U
S10V002480			67-66-3	Chloroform	ug/kg	n/a	<0.131	<0.129	n/a	n/a	n/a	n/a	0.129	n/a	U
S10V002480			108-90-7	Chlorobenzene	ug/kg	104	<0.0864	<0.0850	n/a	n/a	n/a	n/a	0.0850	n/a	U
S10V002480			100-41-4	Ethylbenzene	ug/kg	n/a	<0.107	<0.106	n/a	n/a	n/a	n/a	0.106	n/a	U
S10V002480			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.203	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S10V002480			78-93-3	2-Butanone	ug/kg	110	<1.96	<1.93	n/a	n/a	n/a	n/a	1.93	n/a	U
S10V002480			75-09-2	Methylenechloride	ug/kg	n/a	<0.0640	<0.0630	n/a	n/a	n/a	n/a	0.0630	n/a	U
S10V002480			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.110	<0.108	n/a	n/a	n/a	n/a	0.108	n/a	U
S10V002480			100-42-5	Styrene	ug/kg	n/a	0.371	0.327	n/a	n/a	n/a	n/a	0.125	n/a	BJ
S10V002480			108-88-3	Toluene	ug/kg	103	0.208	0.479	n/a	n/a	n/a	n/a	0.0789	n/a	BJ
S10V002480			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.271	<0.267	n/a	n/a	n/a	n/a	0.267	n/a	U
S10V002480			79-01-6	Trichloroethene	ug/kg	105	<0.121	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U
S10V002480			75-01-4	Vinyl chloride	ug/kg	n/a	<0.173	<0.171	n/a	n/a	n/a	n/a	0.171	n/a	U
S10V002480			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.182	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S10V002480			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.303	<0.298	n/a	n/a	n/a	n/a	0.298	n/a	U
S10V002480			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.116	<0.114	n/a	n/a	n/a	n/a	0.114	n/a	U
S10V002480			79-46-9	2-Nitropropane	ug/kg	n/a	<0.588	<0.579	n/a	n/a	n/a	n/a	0.579	n/a	U
S10V002480			141-78-6	Ethyl acetate	ug/kg	n/a	<0.587	<0.578	n/a	n/a	n/a	n/a	0.578	n/a	U
S10V002480			60-29-7	Diethyl ether	ug/kg	n/a	<0.256	<0.252	n/a	n/a	n/a	n/a	0.252	n/a	U

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Data Summary Report

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C62

Sample Depth: 122-124

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S10V002480			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<0.0940	<0.0925	n/a	n/a	n/a	n/a	0.0925	n/a	U
S10V002480			95-47-6	o-Xylene	ug/kg	n/a	<0.0920	<0.0906	n/a	n/a	n/a	n/a	0.0906	n/a	U
S10V002480			179601-23-1	m,p-Xylene	ug/kg	n/a	<0.167	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U

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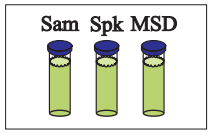
Attachment 2

SAMPLE BREAKDOWN DIAGRAM

Vadose Zone: C Farm WMC 2010-2
Core No.: C7682
Group 20100676 (Liquid)
Group 20100677 (Offsite Liquid)
Matrix: Liquid

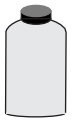
Segment No. Equipment Blank
Customer ID: B26PF9



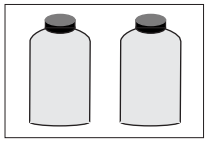
S10V002645
GC/MS VOA

S10V002646
GC/MS SVOA

S10V002647
MS Fiss Prod, Actinides
ICP-Metals
Mercury

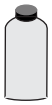


S10V002648
Iodine-129
Tritium Large
Carbon-14



S10V002649
GEA
Am-241, Iso Cm
Strontium-90
Iso-Pu
Nickel-63
Selenium-79

S10V002650
IC - Anions/Org Acids
pH

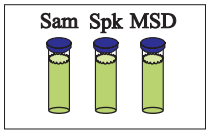


S10V002651
Sulfide

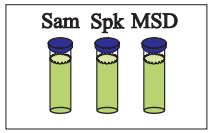
S10V002652
Cyanide-Water

SS10V002653
Ammonium

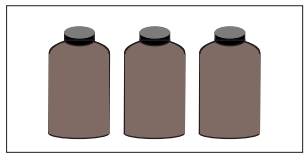
Group 20100677 (Offsite Liquid)



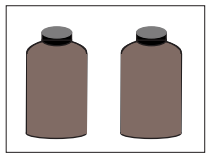
S10V002654
SHIP -OUTSIDE LAB
(Ethylene Glycol)



S10V002655
SHIP -OUTSIDE LAB
(TPH Gasoline)



S10V002656
SHIP - OUTSIDE LAB
(PCB)



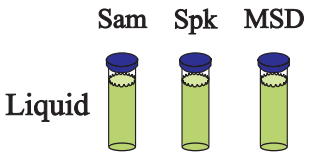
S10V002657
SHIP - OUTSIDE LAB
(Pesticides)

S10V002658
SHIP - OUTSIDE LAB
(TPH Diesel)

S10V002659
SHIP - OUTSIDE LAB
(MBP & DBP)

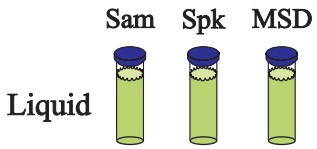
Vadose Zone: C Farm
Core No.: C7682
Group 20100657 (ATL)

Sample Depth: Field Blank-1
Customer ID: B26CY1



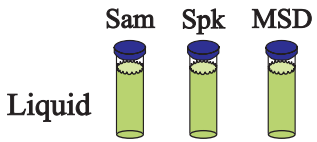
S10V002241
GC/MS VOA

Sample Depth: Field Blank-2
Customer ID: B26CY2



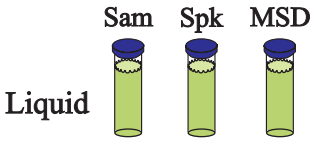
S10V002242
GC/MS VOA

Sample Depth: Field Blank-3
Customer ID: B26CY3



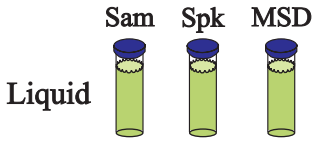
S10V002243
GC/MS VOA

Sample Depth: Field Blank-4
Customer ID: B26CY4



S10V002244
GC/MS VOA

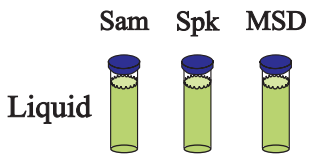
Sample Depth: Field Blank-5
Customer ID: B26CY5



S10V002245
GC/MS VOA

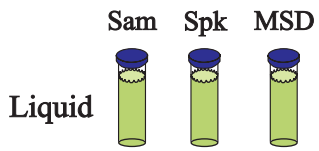
Vadose Zone: C Farm
Core No.: C7682
Group 20100657 (ATL)

Sample Depth: Field Blank-6
Customer ID: B26CY6



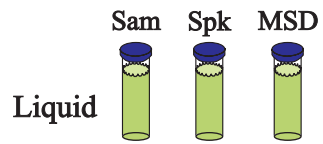
S10V002246
GC/MS VOA

Sample Depth: Field Blank-7
Customer ID: B26CY7



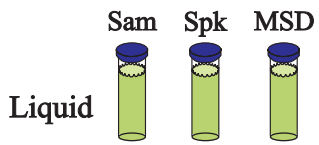
S10V002247
GC/MS VOA

Sample Depth: Field Blank-8
Customer ID: B26CY8



S10V002248
GC/MS VOA

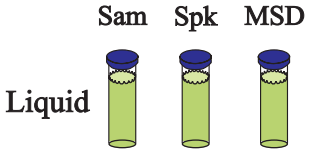
Sample Depth: Field Blank-9
Customer ID: B26CY9



S10V002249
GC/MS VOA

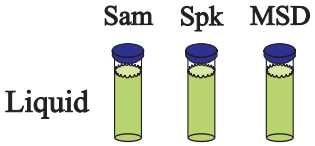
Vadose Zone: C Farm
Core No.: C7682
Group 20100657 (ATL)

Sample Depth: Trip Blank-1
Customer ID: B26CX1



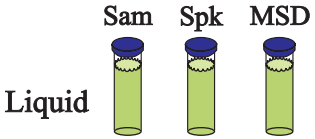
S10V002251
GC/MS VOA

Sample Depth: Trip Blank-2
2Customer ID: B26CX2



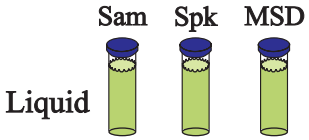
S10V002252
GC/MS VOA

Sample Depth: Trip Blank-3
Customer ID: B26CX3



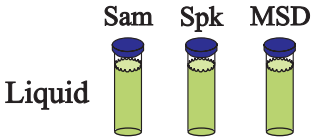
S10V002253
GC/MS VOA

Sample Depth: Trip Blank-4
Customer ID: B26CX4



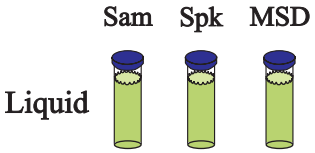
S10V002254
GC/MS VOA

Sample Depth: Trip Blank-5
Customer ID: B26CX5



S10V002255
GC/MS VOA

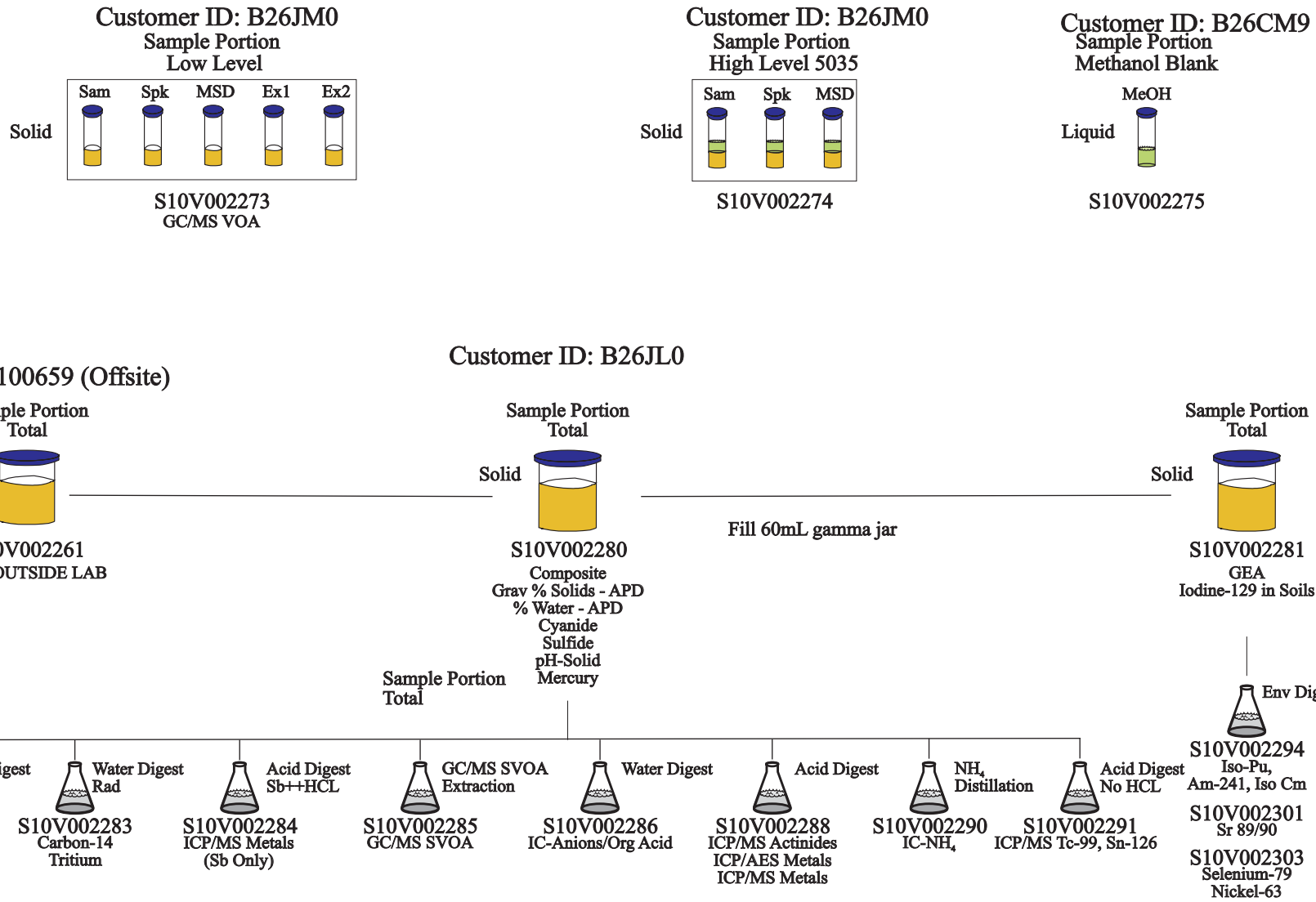
Sample Depth: Trip Blank-6
Customer ID: B26CX6



S10V002256
GC/MS VOA

Vadose Zone: C Farm 2010
Core No.: C7682
Group 20100660 (ATL)
Group 20100659 (Offsite)

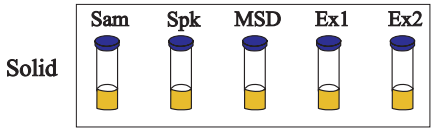
Sample Depth: Surface
Segment No: Surface



Vadose Zone: C Farm 2010
Core No.: C7682
Group 20100660 (ATL)
Group 20100659 (Offsite)

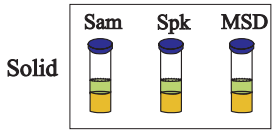
Sample Depth: Surface-Dup
Segment No: Surface Dup

Customer ID: B26JM1
Sample Portion
Low Level



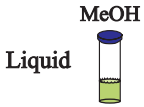
S10V002306
GC/MS VOA

Customer ID: B26JM1
Sample Portion
High Level 5035



S10V002307

Customer ID: B26CN0
Sample Portion
Methanol Blank



S10V002308

Customer ID: B26JL1

Group 20100659 (Offsite)

Sample Portion
Total

S10V002262
SHIP-OUTSIDE LAB

Sample Portion
Total

S10V002309
Composite
Grav % Solids - APD
% Water - APD
Cyanide
Sulfide
pH-Solid
Mercury

Fill 60mL gamma jar

Sample Portion
Total

S10V002310
GEA
Iodine-129 in Soils

Sample Portion
Total

S10V002311
ICP/MS Tc-99

S10V002312
Carbon-14
Tritium

S10V002313
ICP/MS Metals
(Sb Only)

S10V002314
GC/MS SVOA

S10V002315
IC-Anions/Org Acid

S10V002316
ICP/MS Actinides
ICP/AES Metals
ICP/MS Metals

S10V002317
IC-NH_4

S10V002318
ICP/MS Tc-99, Sn-126

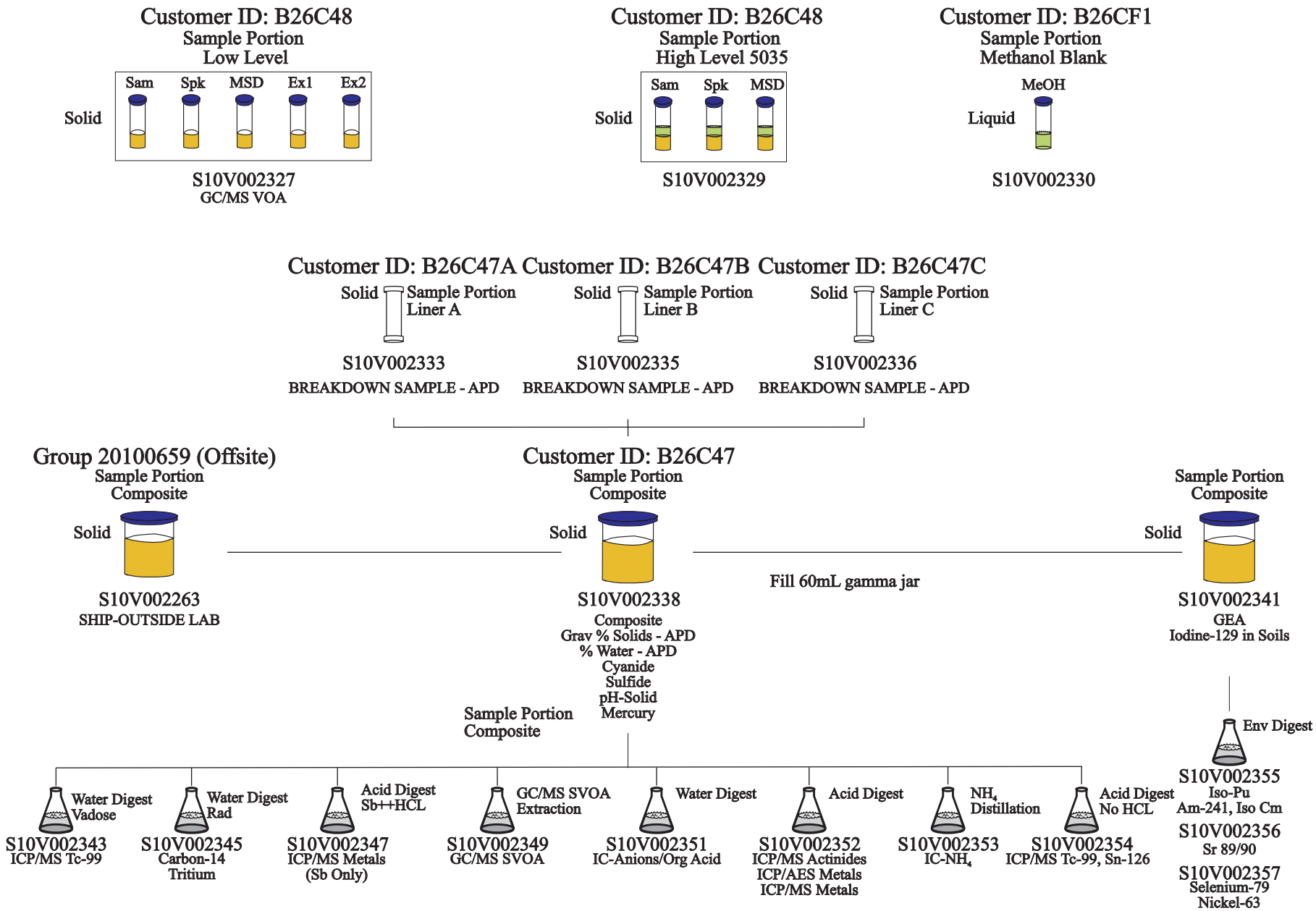
S10V002323
Iso-Pu,
Am-241, Iso Cm

S10V002324
Sr 89/90

S10V002325
Selenium-79
Nickel-63

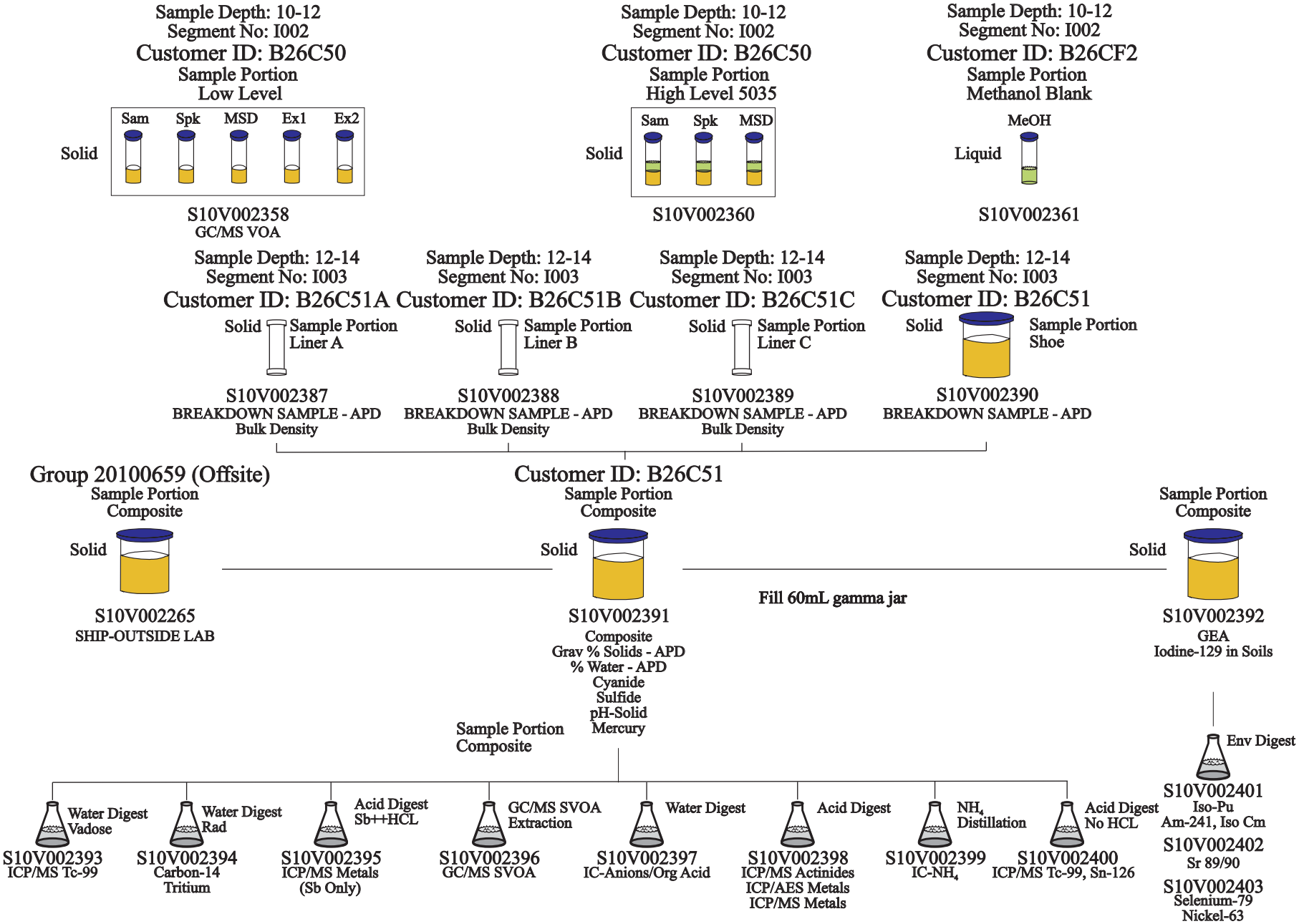
Vadose Zone: C Farm 2010
Core No.: C7682
Group 20100660 (ATL)
Group 20100659 (Offsite)

Sample Depth: 5-7
Segment No: I001



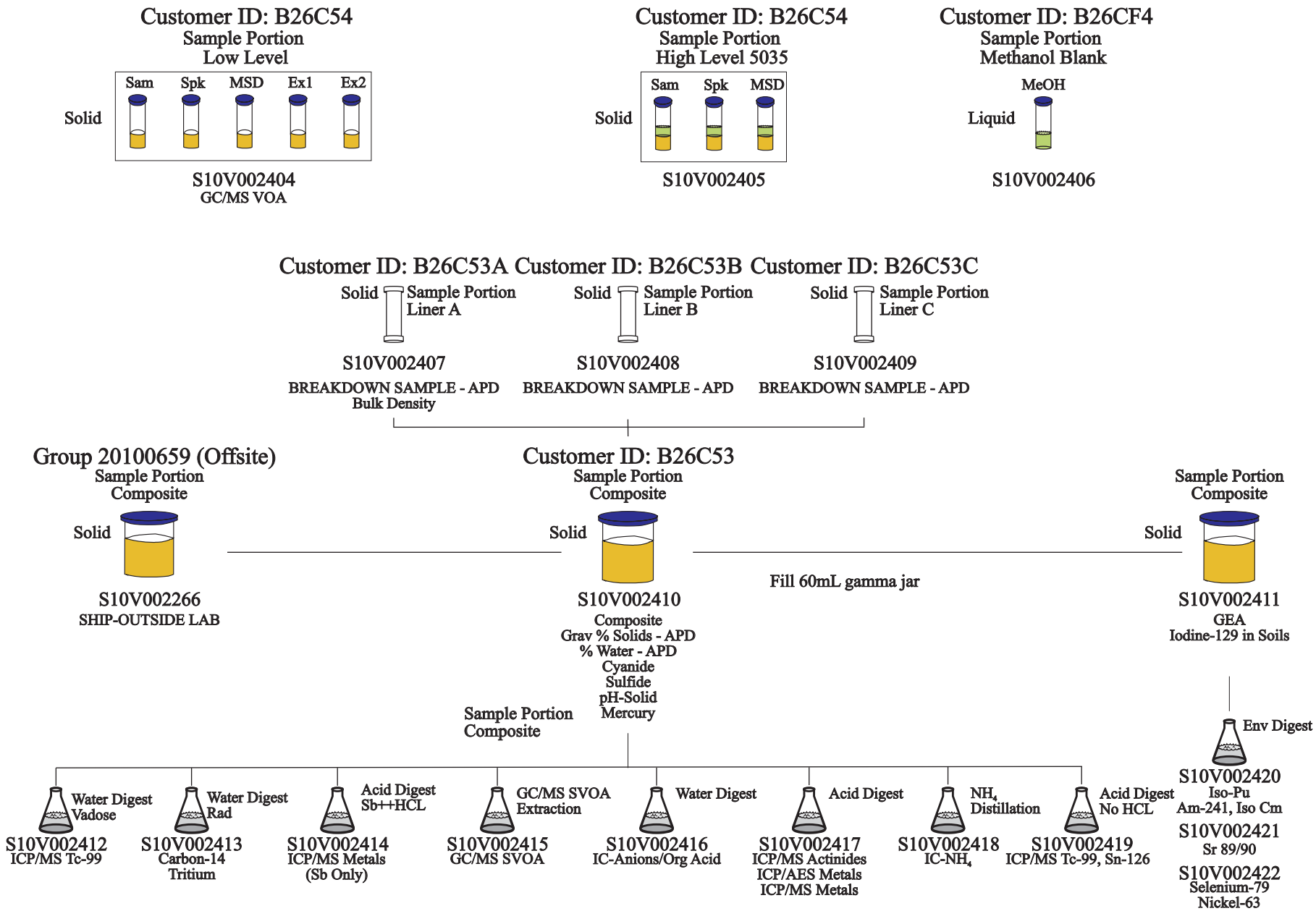
Vadose Zone: C Farm 2010
Core No.: C7682
Group 20100660 (ATL)
Group 20100659 (Offsite)

Sample Depth: 10-14
Segment No: I002+3



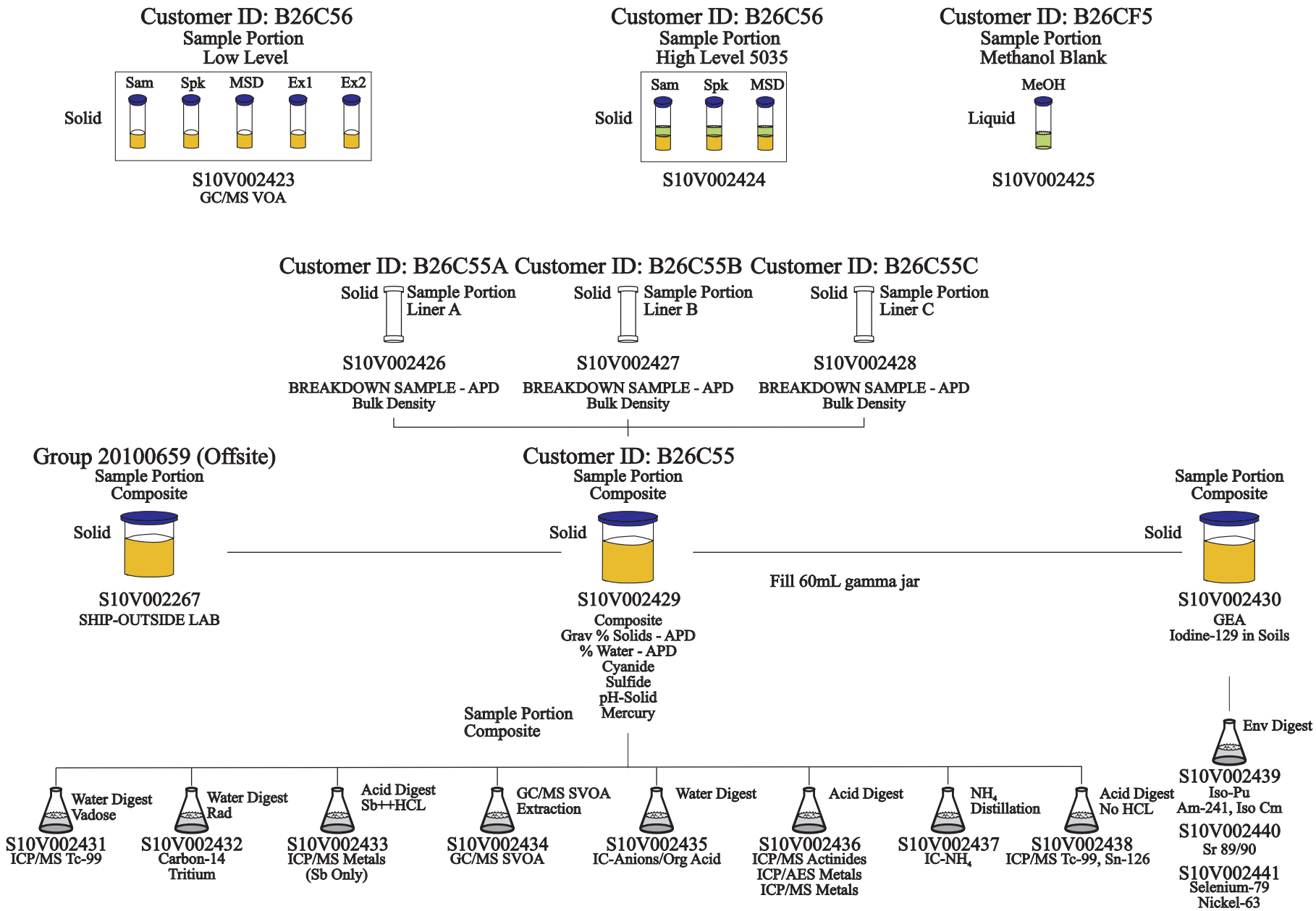
Vadose Zone: C Farm 2010
Core No.: C7682
Group 20100660 (ATL)
Group 20100659 (Offsite)

Sample Depth: 14-16
Segment No: I004



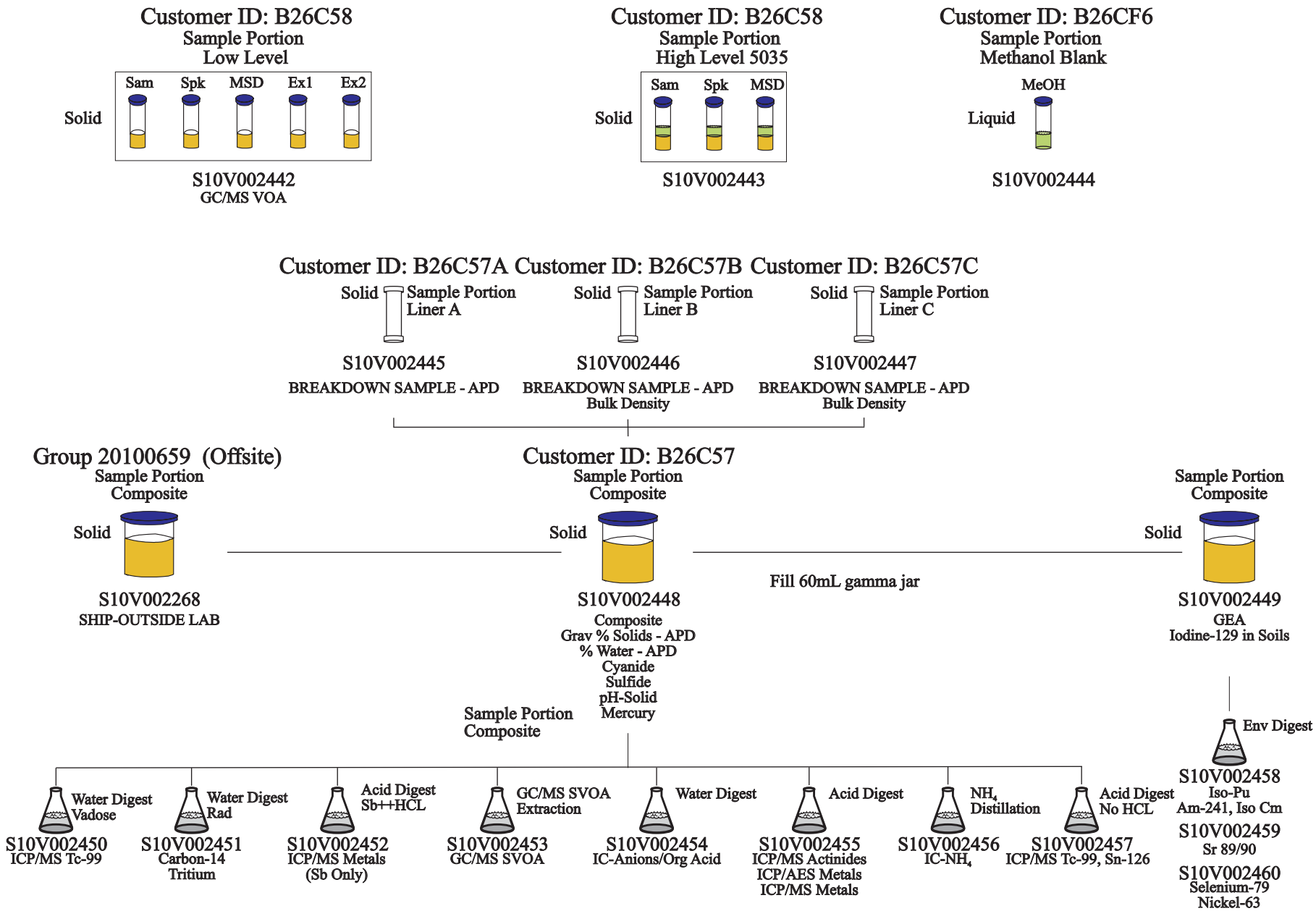
Vadose Zone: C Farm 2010
Core No.: C7682
Group 20100660 (ATL)
Group 20100659 (Offsite)

Sample Depth: 18-20
Segment No: I005



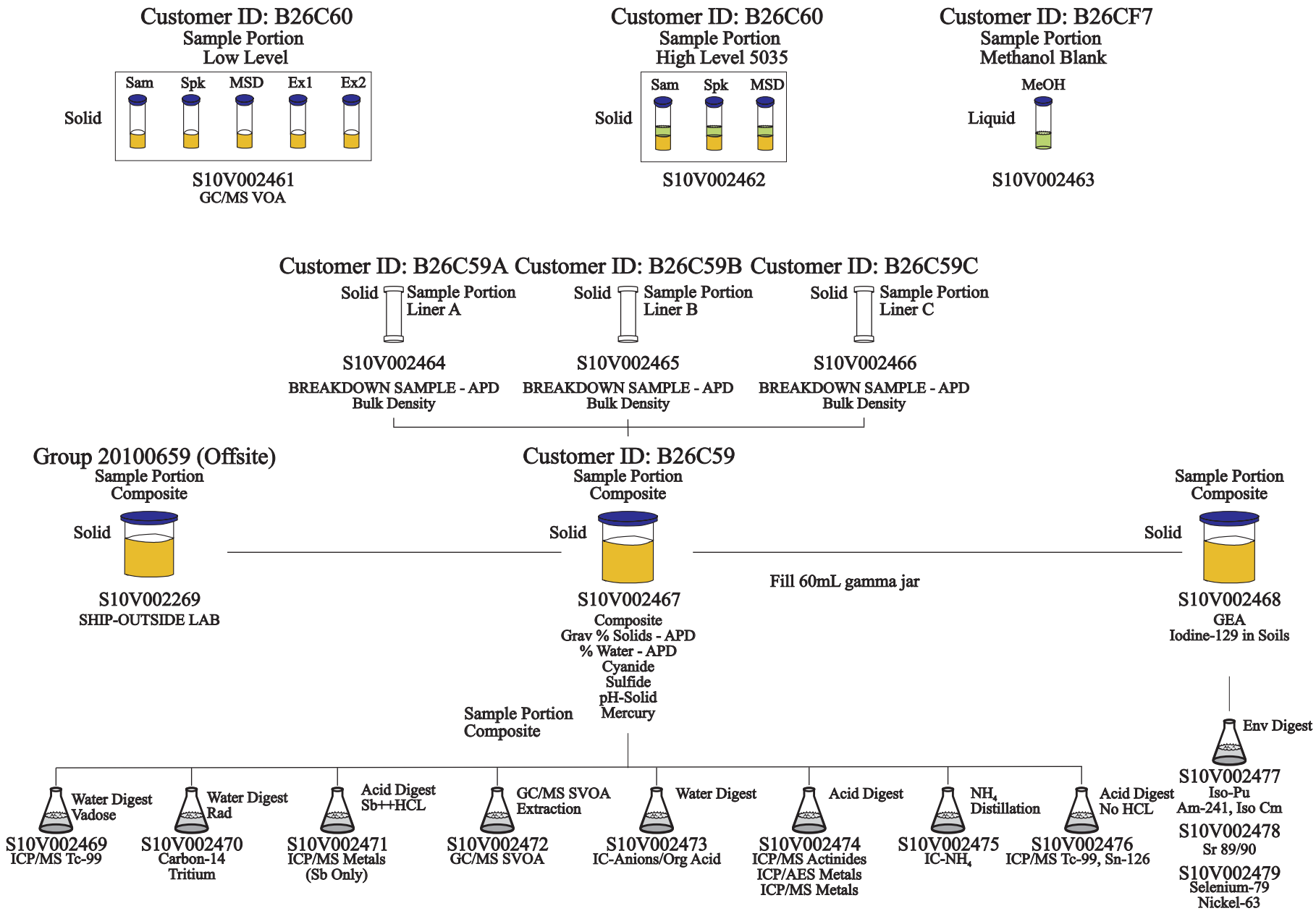
Vadose Zone: C Farm 2010
Core No.: C7682
Group 20100660 (ATL)
Group 20100659 (Offsite)

Sample Depth: 45-47
Segment No: I006



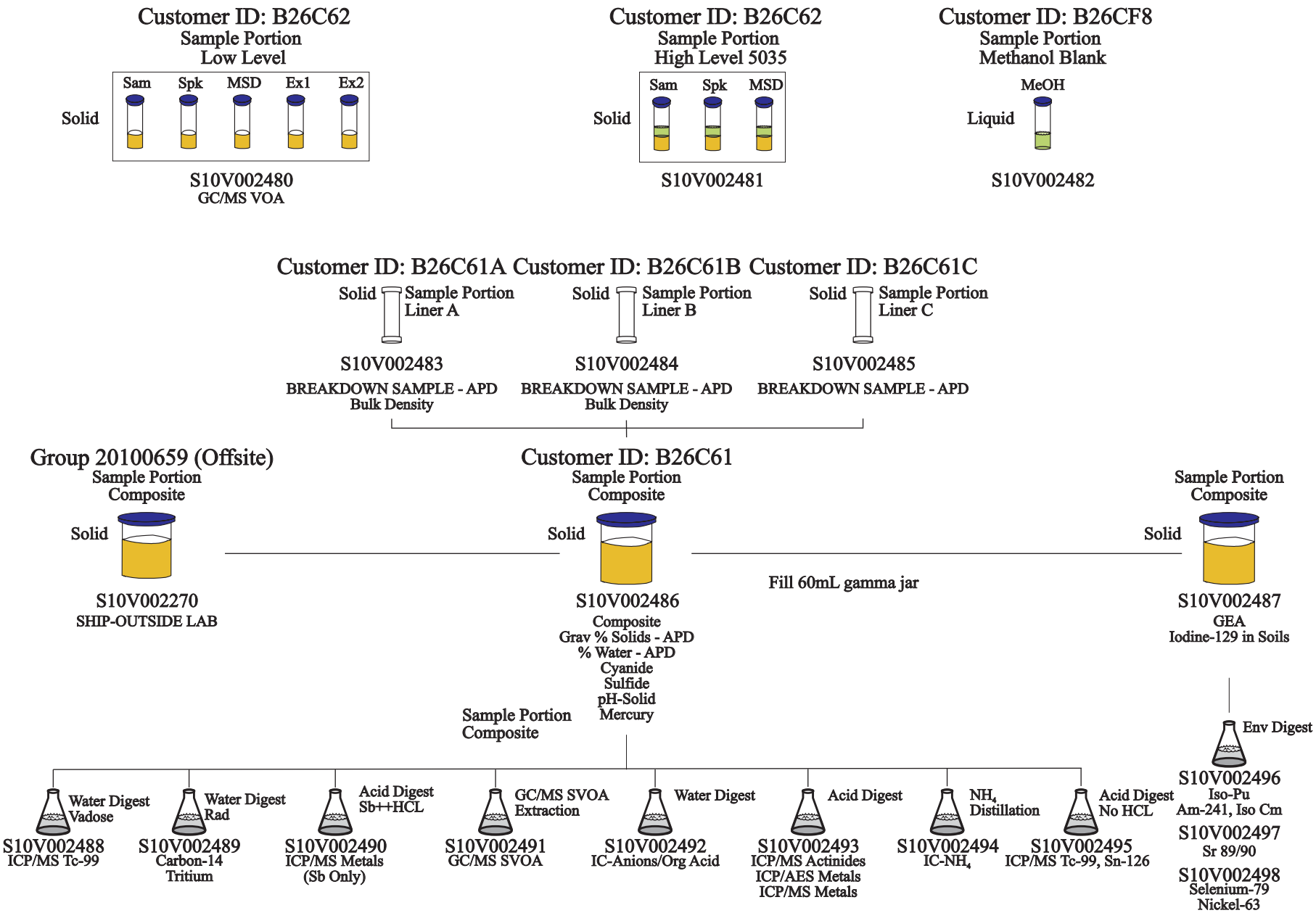
Vadose Zone: C Farm 2010
Core No.: C7682
Group 20100660 (ATL)
Group 20100659 (Offsite)

Sample Depth: 88-90
Segment No: I007



Vadose Zone: C Farm 2010
Core No.: C7682
Group 20100660 (ATL)
Group 20100659 (Offsite)

Sample Depth:122-124
Segment No: I008



Attachment 3

HOLDING TIME REPORT

Holding Time Report: Cyanide

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100660	S10V002280	SOLID	SW846-9014	SW846-9010C	08/17/10 09:30	08/17/10 11:00	08/23/10 15:22	N
20100660	S10V002309	SOLID	SW846-9014	SW846-9010C	08/17/10 09:30	08/17/10 11:00	08/23/10 15:22	N
20100660	S10V002338	SOLID	SW846-9014	SW846-9010C	08/18/10 09:00	08/18/10 12:00	08/23/10 15:22	N
20100660	S10V002391	SOLID	SW846-9014	SW846-9010C	08/18/10 11:30	08/18/10 12:00	08/23/10 15:22	N
20100660	S10V002410	SOLID	SW846-9014	SW846-9010C	08/19/10 09:10	08/19/10 11:40	08/27/10 14:35	N
20100660	S10V002429	SOLID	SW846-9014	SW846-9010C	08/19/10 10:30	08/19/10 11:40	08/27/10 14:35	N
20100660	S10V002448	SOLID	SW846-9014	SW846-9010C	08/23/10 10:00	08/23/10 11:15	08/31/10 14:40	N
20100660	S10V002467	SOLID	SW846-9014	SW846-9010C	08/24/10 10:30	08/24/10 11:30	08/31/10 14:40	N
20100660	S10V002486	SOLID	SW846-9014	SW846-9010C	08/25/10 10:05	08/25/10 11:05	08/31/10 14:40	N
20100676	S10V002652	LIQUID	SW846-9014	SW846-9010C	08/23/10 00:45	08/23/10 11:10	09/01/10 15:30	N

Holding Time Report: Sulfide

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100660	S10V002280	SOLID	SW-846 9215	SW-846 9030B	08/17/10 09:30	08/17/10 11:00	08/19/10 22:49	N
20100660	S10V002309	SOLID	SW-846 9215	SW-846 9030B	08/17/10 09:30	08/17/10 11:00	08/19/10 22:49	N
20100660	S10V002338	SOLID	SW-846 9215	SW-846 9030B	08/18/10 09:00	08/18/10 12:00	08/19/10 22:49	N
20100660	S10V002391	SOLID	SW-846 9215	SW-846 9030B	08/18/10 11:30	08/18/10 12:00	08/19/10 22:49	N
20100660	S10V002410	SOLID	SW-846 9215	SW-846 9030B	08/19/10 09:10	08/19/10 11:40	08/24/10 14:30	N
20100660	S10V002429	SOLID	SW-846 9215	SW-846 9030B	08/19/10 10:30	08/19/10 11:40	08/24/10 14:30	N
20100660	S10V002448	SOLID	SW-846 9215	SW-846 9030B	08/23/10 10:00	08/23/10 11:15	08/27/10 14:20	N
20100660	S10V002467	SOLID	SW-846 9215	SW-846 9030B	08/24/10 10:30	08/24/10 11:30	08/27/10 14:20	N
20100660	S10V002486	SOLID	SW-846 9215	SW-846 9030B	08/25/10 10:05	08/25/10 11:05	08/31/10 13:45	N
20100676	S10V002651	LIQUID	SW-846 9215	SW-846 9030B	08/23/10 00:45	08/23/10 11:10	08/24/10 14:30	N

Holding Time Report: pH

Sample Group	Sample	Matrix	Method	Sample Date	Received Date	Analysis Date	Days Lasped
20100676	S10V002650	LIQUID	SW-846 9040C	08/23/10 00:45	08/23/10 11:10	08/23/10 15:50	0.6
20100660	S10V002280	SOLID	SW-846 9045D	08/17/10 09:30	08/17/10 11:00	09/20/10 15:45	34.3
20100660	S10V002309	SOLID	SW-846 9045D	08/17/10 09:30	08/17/10 11:00	08/25/10 10:24	8.0
20100660	S10V002338	SOLID	SW-846 9045D	08/18/10 09:00	08/18/10 12:00	08/25/10 10:24	7.1
20100660	S10V002391	SOLID	SW-846 9045D	08/18/10 11:30	08/18/10 12:00	09/20/10 15:45	33.2
20100660	S10V002410	SOLID	SW-846 9045D	08/19/10 09:10	08/19/10 11:40	08/25/10 10:24	6.1
20100660	S10V002429	SOLID	SW-846 9045D	08/19/10 10:30	08/19/10 11:40	08/25/10 10:24	6.0
20100660	S10V002448	SOLID	SW-846 9045D	08/23/10 10:00	08/23/10 11:15	08/25/10 10:24	2.0
20100660	S10V002467	SOLID	SW-846 9045D	08/24/10 10:30	08/24/10 11:30	08/25/10 10:24	1.0
20100660	S10V002486	SOLID	SW-846 9045D	08/25/10 10:05	08/25/10 11:05	09/20/10 15:45	26.2

Holding Time Report: Mercury

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100660	S10V002280	SOLID	SW-846 7471A	SW-846 7471A	08/17/10 09:30	08/17/10 11:00	08/26/10 15:00	N
20100660	S10V002309	SOLID	SW-846 7471A	SW-846 7471A	08/17/10 09:30	08/17/10 11:00	08/26/10 15:00	N
20100660	S10V002338	SOLID	SW-846 7471A	SW-846 7471A	08/18/10 09:00	08/18/10 12:00	08/26/10 15:00	N
20100660	S10V002391	SOLID	SW-846 7471A	SW-846 7471A	08/18/10 11:30	08/18/10 12:00	08/26/10 15:00	N
20100660	S10V002410	SOLID	SW-846 7471A	SW-846 7471A	08/19/10 09:10	08/19/10 11:40	08/26/10 15:00	N
20100660	S10V002429	SOLID	SW-846 7471A	SW-846 7471A	08/19/10 10:30	08/19/10 11:40	08/26/10 15:00	N
20100660	S10V002448	SOLID	SW-846 7471A	SW-846 7471A	08/23/10 10:00	08/23/10 11:15	08/26/10 15:00	N
20100660	S10V002467	SOLID	SW-846 7471A	SW-846 7471A	08/24/10 10:30	08/24/10 11:30	09/14/10 20:20	N
20100660	S10V002486	SOLID	SW-846 7471A	SW-846 7471A	08/25/10 10:05	08/25/10 11:05	09/14/10 20:20	N
20100676	S10V002647	LIQUID	SW-846 7470A	SW-846 7470A	08/23/10 00:45	08/23/10 11:10	09/17/10 22:30	N

Holding Time Report: IC Ammonium

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100660	S10V002290	SOLID	EPA-300.7	Distillation	08/17/10 09:30	08/17/10 11:00	08/19/10 11:42	08/19/10 16:12	N
20100660	S10V002317	SOLID	EPA-300.7	Distillation	08/17/10 09:30	08/17/10 11:00	08/19/10 11:42	08/19/10 17:21	N
20100660	S10V002353	SOLID	EPA-300.7	Distillation	08/18/10 09:00	08/18/10 12:00	08/24/10 10:30	08/24/10 17:14	N
20100660	S10V002399	SOLID	EPA-300.7	Distillation	08/18/10 11:30	08/18/10 12:00	08/24/10 10:30	08/24/10 18:05	N
20100660	S10V002418	SOLID	EPA-300.7	Distillation	08/19/10 09:10	08/19/10 11:40	08/24/10 10:30	08/24/10 18:22	N
20100660	S10V002437	SOLID	EPA-300.7	Distillation	08/19/10 10:30	08/19/10 11:40	08/24/10 10:30	08/24/10 18:39	N
20100660	S10V002456	SOLID	EPA-300.7	Distillation	08/23/10 10:00	08/23/10 11:15	08/27/10 13:45	08/27/10 20:54	N
20100660	S10V002475	SOLID	EPA-300.7	Distillation	08/24/10 10:30	08/24/10 11:30	08/27/10 13:45	08/27/10 20:37	N
20100660	S10V002494	SOLID	EPA-300.7	Distillation	08/25/10 10:05	08/25/10 11:05	08/31/10 15:50	08/31/10 19:56	N
20100676	S10V002653	LIQUID	EPA-300.7	Distillation	08/23/10 00:45	08/23/10 11:10	08/24/10 10:30	08/24/10 18:56	N

Holding Time Report: IC-Anions/Small Organic Acids

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100660	S10V002286	SOLID	SW-846 9056A	Water Digest	08/17/10 09:30	08/17/10 11:00	09/14/10 10:00	09/15/10 01:28	N
20100660	S10V002315	SOLID	SW-846 9056A	Water Digest	08/17/10 09:30	08/17/10 11:00	09/14/10 10:00	09/15/10 12:23	N
20100660	S10V002351	SOLID	SW-846 9056A	Water Digest	08/18/10 09:00	08/18/10 12:00	09/14/10 10:00	09/15/10 04:07	N
20100660	S10V002397	SOLID	SW-846 9056A	Water Digest	08/18/10 11:30	08/18/10 12:00	09/14/10 10:00	09/15/10 04:39	N
20100660	S10V002416	SOLID	SW-846 9056A	Water Digest	08/19/10 09:10	08/19/10 11:40	09/14/10 10:00	09/15/10 05:11	N
20100660	S10V002435	SOLID	SW-846 9056A	Water Digest	08/19/10 10:30	08/19/10 11:40	09/14/10 10:00	09/15/10 05:43	N
20100660	S10V002454	SOLID	SW-846 9056A	Water Digest	08/23/10 10:00	08/23/10 11:15	09/14/10 10:00	09/15/10 07:19	N
20100660	S10V002473	SOLID	SW-846 9056A	Water Digest	08/24/10 10:30	08/24/10 11:30	09/14/10 10:00	09/15/10 07:51	N
20100660	S10V002315	SOLID	SW-846 9056A	Water Digest	08/17/10 09:30	08/17/10 11:00	10/05/10 01:00	10/06/10 09:30	N
20100660	S10V002492	SOLID	SW-846 9056A	Water Digest	08/25/10 10:05	08/25/10 11:05	10/05/10 17:00	10/06/10 07:54	N
20100676	S10V002650	LIQUID	SW-846 9056A	Water Digest	08/23/10 00:45	08/23/10 11:10	N/A	08/24/10 01:48	N

Holding Time Report: Metals

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100660	S10V002288	SOLID	SW-846 6010C	SW-846 3050B	08/17/10 09:30	08/17/10 11:00	11/05/10 16:16	11/18/10 10:34	N
20100660	S10V002316	SOLID	SW-846 6010C	SW-846 3050B	08/17/10 09:30	08/17/10 11:00	11/05/10 16:16	11/18/10 13:20	N
20100660	S10V002352	SOLID	SW-846 6010C	SW-846 3050B	08/18/10 09:00	08/18/10 12:00	11/05/10 16:16	11/18/10 13:23	N
20100660	S10V002398	SOLID	SW-846 6010C	SW-846 3050B	08/18/10 11:30	08/18/10 12:00	11/05/10 16:16	11/18/10 13:25	N
20100660	S10V002417	SOLID	SW-846 6010C	SW-846 3050B	08/19/10 09:10	08/19/10 11:40	11/05/10 16:16	11/18/10 13:28	N
20100660	S10V002436	SOLID	SW-846 6010C	SW-846 3050B	08/19/10 10:30	08/19/10 11:40	11/05/10 16:16	11/18/10 13:30	N
20100660	S10V002455	SOLID	SW-846 6010C	SW-846 3050B	08/23/10 10:00	08/23/10 11:15	11/05/10 16:16	11/18/10 13:33	N
20100660	S10V002474	SOLID	SW-846 6010C	SW-846 3050B	08/24/10 10:30	08/24/10 11:30	11/05/10 16:16	11/18/10 13:35	N
20100660	S10V002493	SOLID	SW-846 6010C	SW-846 3050B	08/25/10 10:05	08/25/10 11:05	11/05/10 16:16	11/18/10 14:00	N
20100676	S10V002647	LIQUID	SW-846 6010C	N/A	08/23/10 00:45	08/23/10 11:10	N/A	09/24/10 13:50	N
20100676	S10V002647	LIQUID	SW-846 6010C	N/A	08/23/10 00:45	08/23/10 11:10	N/A	09/24/10 14:03	N
20100660	S10V002284	SOLID	SW-846 6020A	SW-846 3050B	08/17/10 09:30	08/17/10 11:00	09/01/10 10:00	09/16/10 14:24	N
20100660	S10V002313	SOLID	SW-846 6020A	SW-846 3050B	08/17/10 09:30	08/17/10 11:00	09/01/10 10:00	09/16/10 14:46	N
20100660	S10V002347	SOLID	SW-846 6020A	SW-846 3050B	08/18/10 09:00	08/18/10 12:00	09/01/10 10:00	09/16/10 14:54	N
20100660	S10V002395	SOLID	SW-846 6020A	SW-846 3050B	08/18/10 11:30	08/18/10 12:00	09/01/10 10:00	09/16/10 15:01	N
20100660	S10V002414	SOLID	SW-846 6020A	SW-846 3050B	08/19/10 09:10	08/19/10 11:40	09/01/10 10:00	09/16/10 16:00	N
20100660	S10V002433	SOLID	SW-846 6020A	SW-846 3050B	08/19/10 10:30	08/19/10 11:40	09/01/10 10:00	09/16/10 16:08	N
20100660	S10V002452	SOLID	SW-846 6020A	SW-846 3050B	08/23/10 10:00	08/23/10 11:15	09/01/10 10:00	09/16/10 16:15	N
20100660	S10V002471	SOLID	SW-846 6020A	SW-846 3050B	08/24/10 10:30	08/24/10 11:30	09/01/10 10:00	09/16/10 16:23	N
20100660	S10V002490	SOLID	SW-846 6020A	SW-846 3050B	08/25/10 10:05	08/25/10 11:05	09/01/10 10:00	09/16/10 16:30	N
20100660	S10V002352	SOLID	SW-846 6020A	SW-846 3050B	08/18/10 09:00	08/18/10 12:00	09/17/10 17:00	11/04/10 19:32	N
20100660	S10V002352	SOLID	SW-846 6020A	SW-846 3050B	08/18/10 09:00	08/18/10 12:00	09/17/10 17:00	11/04/10 19:40	N
20100660	S10V002398	SOLID	SW-846 6020A	SW-846 3050B	08/18/10 11:30	08/18/10 12:00	09/17/10 17:00	11/04/10 19:26	N
20100660	S10V002398	SOLID	SW-846 6020A	SW-846 3050B	08/18/10 11:30	08/18/10 12:00	09/17/10 17:00	11/04/10 20:07	N
20100660	S10V002417	SOLID	SW-846 6020A	SW-846 3050B	08/19/10 09:10	08/19/10 11:40	09/17/10 17:00	11/04/10 20:00	N
20100660	S10V002417	SOLID	SW-846 6020A	SW-846 3050B	08/19/10 09:10	08/19/10 11:40	09/17/10 17:00	11/04/10 20:13	N
20100660	S10V002436	SOLID	SW-846 6020A	SW-846 3050B	08/19/10 10:30	08/19/10 11:40	09/17/10 17:00	11/04/10 20:05	N

Holding Time Report: Metals

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100660	S10V002436	SOLID	SW-846 6020A	SW-846 3050B	08/19/10 10:30	08/19/10 11:40	09/17/10 17:00	11/04/10 20:18	N
20100660	S10V002455	SOLID	SW-846 6020A	SW-846 3050B	08/23/10 10:00	08/23/10 11:15	09/17/10 17:00	11/04/10 20:11	N
20100660	S10V002455	SOLID	SW-846 6020A	SW-846 3050B	08/23/10 10:00	08/23/10 11:15	09/17/10 17:00	11/04/10 20:24	N
20100660	S10V002493	SOLID	SW-846 6020A	SW-846 3050B	08/25/10 10:05	08/25/10 11:05	09/17/10 17:00	11/04/10 20:23	N
20100660	S10V002493	SOLID	SW-846 6020A	SW-846 3050B	08/25/10 10:05	08/25/10 11:05	09/17/10 17:00	11/04/10 20:39	N

Holding Time Report: ICP/MS Radio-Isotopic

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100660	S10V002288	SOLID	ICP/MS Actinides	SW-846 3050B	08/17/10 09:30	08/17/10 11:00	09/17/10 17:00	11/03/10 19:23	N
20100660	S10V002316	SOLID	ICP/MS Actinides	SW-846 3050B	08/17/10 09:30	08/17/10 11:00	09/17/10 17:00	11/03/10 19:30	N
20100660	S10V002352	SOLID	ICP/MS Actinides	SW-846 3050B	08/18/10 09:00	08/18/10 12:00	09/17/10 17:00	11/03/10 19:36	N
20100660	S10V002398	SOLID	ICP/MS Actinides	SW-846 3050B	08/18/10 11:30	08/18/10 12:00	09/17/10 17:00	11/03/10 20:25	N
20100660	S10V002417	SOLID	ICP/MS Actinides	SW-846 3050B	08/19/10 09:10	08/19/10 11:40	09/17/10 17:00	11/03/10 20:31	N
20100660	S10V002436	SOLID	ICP/MS Actinides	SW-846 3050B	08/19/10 10:30	08/19/10 11:40	09/17/10 17:00	11/03/10 20:38	N
20100660	S10V002455	SOLID	ICP/MS Actinides	SW-846 3050B	08/23/10 10:00	08/23/10 11:15	09/17/10 17:00	11/03/10 20:44	N
20100660	S10V002474	SOLID	ICP/MS Actinides	SW-846 3050B	08/24/10 10:30	08/24/10 11:30	09/17/10 17:00	11/03/10 20:50	N
20100660	S10V002493	SOLID	ICP/MS Actinides	SW-846 3050B	08/25/10 10:05	08/25/10 11:05	09/17/10 17:00	11/03/10 20:57	N
20100676	S10V002647	LIQUID	ICP/MS Actinides	N/A	08/23/10 00:45	08/23/10 11:10	N/A	11/11/10 20:16	N
20100660	S10V002291	SOLID	ICP/MS Tc-99, Sb-126	SW-846 3050B	08/17/10 09:30	08/17/10 11:00	09/23/10 11:50	11/03/10 13:12	N
20100660	S10V002318	SOLID	ICP/MS Tc-99, Sb-126	SW-846 3050B	08/17/10 09:30	08/17/10 11:00	09/23/10 11:50	11/03/10 13:19	N
20100660	S10V002354	SOLID	ICP/MS Tc-99, Sb-126	SW-846 3050B	08/18/10 09:00	08/18/10 12:00	09/23/10 11:50	11/03/10 13:26	N
20100660	S10V002400	SOLID	ICP/MS Tc-99, Sb-126	SW-846 3050B	08/18/10 11:30	08/18/10 12:00	09/23/10 11:50	11/03/10 13:33	N
20100660	S10V002419	SOLID	ICP/MS Tc-99, Sb-126	SW-846 3050B	08/19/10 09:10	08/19/10 11:40	09/23/10 11:50	11/03/10 13:39	N
20100660	S10V002438	SOLID	ICP/MS Tc-99, Sb-126	SW-846 3050B	08/19/10 10:30	08/19/10 11:40	09/23/10 11:50	11/03/10 13:46	N
20100660	S10V002457	SOLID	ICP/MS Tc-99, Sb-126	SW-846 3050B	08/23/10 10:00	08/23/10 11:15	09/23/10 11:50	11/03/10 13:53	N
20100660	S10V002476	SOLID	ICP/MS Tc-99, Sb-126	SW-846 3050B	08/24/10 10:30	08/24/10 11:30	09/23/10 11:50	11/03/10 14:00	N
20100660	S10V002495	SOLID	ICP/MS Tc-99, Sb-126	SW-846 3050B	08/25/10 10:05	08/25/10 11:05	09/23/10 11:50	11/03/10 14:06	N
20100676	S10V002647	LIQUID	ICP/MS Tc-99, Sb-126	N/A	08/23/10 00:45	08/23/10 11:10	N/A	11/12/10 21:09	N
20100660	S10V002282	SOLID	ICP/MS Tc-99	Water Digest	08/17/10 09:30	08/17/10 11:00	09/22/10 10:00	09/24/10 18:55	N
20100660	S10V002311	SOLID	ICP/MS Tc-99	Water Digest	08/17/10 09:30	08/17/10 11:00	09/22/10 10:00	09/24/10 19:00	N
20100660	S10V002343	SOLID	ICP/MS Tc-99	Water Digest	08/18/10 09:00	08/18/10 12:00	09/22/10 10:00	09/24/10 19:06	N
20100660	S10V002393	SOLID	ICP/MS Tc-99	Water Digest	08/18/10 11:30	08/18/10 12:00	09/22/10 10:00	09/24/10 19:11	N
20100660	S10V002412	SOLID	ICP/MS Tc-99	Water Digest	08/19/10 09:10	08/19/10 11:40	09/22/10 10:00	09/24/10 19:16	N
20100660	S10V002431	SOLID	ICP/MS Tc-99	Water Digest	08/19/10 10:30	08/19/10 11:40	09/22/10 10:00	09/24/10 19:21	N
20100660	S10V002450	SOLID	ICP/MS Tc-99	Water Digest	08/23/10 10:00	08/23/10 11:15	09/22/10 10:00	09/24/10 19:41	N
20100660	S10V002469	SOLID	ICP/MS Tc-99	Water Digest	08/24/10 10:30	08/24/10 11:30	09/22/10 10:00	09/24/10 19:46	N
20100660	S10V002488	SOLID	ICP/MS Tc-99	Water Digest	08/25/10 10:05	08/25/10 11:05	09/22/10 10:00	09/24/10 19:51	N

Holding Time Report: Radiochemistry

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100660	S10V002294	SOLID	Am-241, Iso Cm	Acid Digest	08/17/10 09:30	08/17/10 11:00	11/05/10 15:14	11/19/10 11:00	N
20100660	S10V002323	SOLID	Am-241, Iso Cm	Acid Digest	08/17/10 09:30	08/18/10 10:55	11/05/10 15:14	11/19/10 11:00	N
20100660	S10V002355	SOLID	Am-241, Iso Cm	Acid Digest	08/18/10 09:00	08/18/10 12:00	11/05/10 15:14	11/19/10 11:00	N
20100660	S10V002401	SOLID	Am-241, Iso Cm	Acid Digest	08/18/10 11:30	08/19/10 12:00	11/05/10 15:14	11/19/10 11:00	N
20100660	S10V002420	SOLID	Am-241, Iso Cm	Acid Digest	08/19/10 09:10	08/19/10 11:40	11/05/10 15:14	11/19/10 11:00	N
20100660	S10V002439	SOLID	Am-241, Iso Cm	Acid Digest	08/19/10 10:30	08/19/10 11:40	11/05/10 15:14	11/19/10 11:00	N
20100660	S10V002458	SOLID	Am-241, Iso Cm	Acid Digest	08/23/10 10:00	08/23/10 11:15	11/05/10 15:14	11/19/10 11:00	N
20100660	S10V002477	SOLID	Am-241, Iso Cm	Acid Digest	08/24/10 10:30	08/24/10 11:30	11/05/10 15:14	11/19/10 11:00	N
20100660	S10V002496	SOLID	Am-241, Iso Cm	Acid Digest	08/25/10 10:05	08/25/10 11:05	11/05/10 15:14	11/19/10 11:00	N
20100676	S10V002649	LIQUID	Am-241, Iso Cm	NA	08/23/2010 00:45	08/23/2010 11:10	NA	09/29/2010 10:45	N
20100660	S10V002283	SOLID	Carbon-14	Water Digest	08/17/2010 09:30	08/17/2010 11:00	09/02/2010 10:00	10/06/2010 15:15	N
20100660	S10V002312	SOLID	Carbon-14	Water Digest	08/17/2010 09:30	08/17/2010 11:00	09/02/2010 10:00	10/06/2010 15:15	N
20100660	S10V002345	SOLID	Carbon-14	Water Digest	08/18/2010 09:00	08/18/2010 12:00	09/02/2010 10:00	10/06/2010 15:15	N
20100660	S10V002394	SOLID	Carbon-14	Water Digest	08/18/2010 11:30	08/18/2010 12:00	09/02/2010 10:00	10/06/2010 15:15	N
20100660	S10V002413	SOLID	Carbon-14	Water Digest	08/19/2010 09:10	08/19/2010 11:40	09/02/2010 10:00	10/06/2010 15:15	N
20100660	S10V002432	SOLID	Carbon-14	Water Digest	08/19/2010 10:30	08/19/2010 11:40	09/02/2010 10:00	10/06/2010 15:15	N
20100660	S10V002451	SOLID	Carbon-14	Water Digest	08/23/2010 10:00	08/23/2010 11:15	09/02/2010 10:00	10/06/2010 15:15	N
20100660	S10V002470	SOLID	Carbon-14	Water Digest	08/24/2010 10:30	08/24/2010 11:30	09/02/2010 10:00	10/06/2010 15:15	N
20100660	S10V002489	SOLID	Carbon-14	Water Digest	08/25/2010 10:05	08/25/2010 11:05	09/02/2010 10:00	10/06/2010 15:15	N
20100676	S10V002648	LIQUID	Carbon-14	NA	08/23/2010 00:45	08/23/2010 11:10	NA	09/23/2010 14:20	N
20100660	S10V002281	SOLID	GEA	NA	08/17/2010 09:30	08/17/2010 11:00	NA	09/10/2010 06:53	N
20100660	S10V002310	SOLID	GEA	NA	08/17/2010 09:30	08/18/2010 10:55	NA	09/10/2010 09:28	N
20100660	S10V002341	SOLID	GEA	NA	08/18/2010 09:00	08/18/2010 12:00	NA	09/10/2010 13:09	N
20100660	S10V002392	SOLID	GEA	NA	08/18/2010 11:30	08/18/2010 12:00	NA	09/10/2010 15:44	N
20100660	S10V002411	SOLID	GEA	NA	08/19/2010 09:10	08/19/2010 11:40	NA	09/10/2010 18:28	N
20100660	S10V002430	SOLID	GEA	NA	08/19/2010 10:30	08/19/2010 11:40	NA	09/10/2010 21:07	N
20100660	S10V002449	SOLID	GEA	NA	08/23/2010 10:00	08/23/2010 11:15	NA	09/11/2010 04:22	N
20100660	S10V002468	SOLID	GEA	NA	08/24/2010 10:30	08/24/2010 11:30	NA	09/11/2010 09:44	N
S10V0024	S10V002487	SOLID	GEA	NA	08/25/2010 10:05	08/25/2010 11:05	NA	09/11/2010 16:50	N
20100676	S10V002649	LIQUID	GEA	NA	08/23/2010 00:45	08/23/2010 11:10	NA	09/12/2010 11:02	N

Holding Time Report: Radiochemistry

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100660	S10V002281	SOLID	Iodine-129	Fusion	08/17/2010 09:30	08/17/2010 11:00	NA	11/08/2010 15:00	
20100660	S10V002310	SOLID	Iodine-129	Fusion	08/17/2010 09:30	08/18/2010 10:55	NA	11/08/2010 15:00	N
20100660	S10V002341	SOLID	Iodine-129	Fusion	08/18/2010 09:00	08/18/2010 12:00	NA	11/09/2010 23:15	N
20100660	S10V002392	SOLID	Iodine-129	Fusion	08/18/2010 11:30	08/18/2010 12:00	NA	11/09/2010 23:15	N
20100660	S10V002411	SOLID	Iodine-129	Fusion	08/19/2010 09:10	08/19/2010 11:40	NA	11/09/2010 23:15	N
20100660	S10V002430	SOLID	Iodine-129	Fusion	08/19/2010 10:30	08/19/2010 11:40	NA	11/09/2010 23:15	N
20100660	S10V002449	SOLID	Iodine-129	Fusion	08/23/2010 10:00	08/23/2010 11:15	NA	11/09/2010 23:15	N
20100660	S10V002468	SOLID	Iodine-129	Fusion	08/24/2010 10:30	08/24/2010 11:30	NA	11/09/2010 23:15	N
20100660	S10V002487	SOLID	Iodine-129	Fusion	08/25/2010 10:05	08/25/2010 11:05	NA	11/09/2010 23:15	N
20100676	S10V002648	LIQUID	Iodine-129	NA	08/23/2010 00:45	08/23/2010 11:10	NA	09/17/2010 10:00	N
20100660	S10V002303	SOLID	Nickel-63	Acid Digest	08/17/10 09:30	08/17/10 11:00	11/08/10 14:50	11/12/10 13:45	N
20100660	S10V002325	SOLID	Nickel-63	Acid Digest	08/17/10 09:30	08/18/10 10:55	11/08/10 14:50	11/12/10 13:45	N
20100660	S10V002357	SOLID	Nickel-63	Acid Digest	08/18/10 09:00	08/18/10 12:00	11/08/10 14:50	11/12/10 13:45	N
20100660	S10V002403	SOLID	Nickel-63	Acid Digest	08/18/10 11:30	08/18/10 12:00	11/08/10 14:50	11/12/10 13:45	N
20100660	S10V002422	SOLID	Nickel-63	Acid Digest	08/19/10 09:10	08/19/10 11:40	11/08/10 14:50	11/12/10 13:45	N
20100660	S10V002441	SOLID	Nickel-63	Acid Digest	08/19/10 10:30	08/19/10 11:40	11/08/10 14:50	11/12/10 13:45	N
20100660	S10V002460	SOLID	Nickel-63	Acid Digest	08/23/10 10:00	08/23/10 11:15	11/08/10 14:50	11/12/10 13:45	N
20100660	S10V002479	SOLID	Nickel-63	Acid Digest	08/24/10 10:30	08/24/10 11:30	11/08/10 14:50	11/12/10 13:45	N
20100660	S10V002498	SOLID	Nickel-63	Acid Digest	08/25/10 10:05	08/25/10 11:05	11/08/10 14:50	11/12/10 13:45	N
20100676	S10V002649	LIQUID	Nickel-63	NA	08/23/2010 00:45	08/23/2010 11:10	NA	10/20/2010 15:25	N
20100660	S10V002294	SOLID	Iso-Putonium	Acid Digest	08/17/10 09:30	08/17/10 11:00	11/05/10 15:14	11/18/10 23:15	N
20100660	S10V002323	SOLID	Iso-Putonium	Acid Digest	08/17/10 09:30	08/18/10 10:55	11/05/10 15:14	11/18/10 23:15	N
20100660	S10V002355	SOLID	Iso-Putonium	Acid Digest	08/18/10 09:00	08/18/10 12:00	11/05/10 15:14	11/18/10 23:15	N
20100660	S10V002401	SOLID	Iso-Putonium	Acid Digest	08/18/10 11:30	08/19/10 12:00	11/05/10 15:14	11/18/10 23:15	N
20100660	S10V002420	SOLID	Iso-Putonium	Acid Digest	08/19/10 09:10	08/19/10 11:40	11/05/10 15:14	11/18/10 23:15	N
20100660	S10V002439	SOLID	Iso-Putonium	Acid Digest	08/19/10 10:30	08/19/10 11:40	11/05/10 15:14	11/18/10 23:15	N
20100660	S10V002458	SOLID	Iso-Putonium	Acid Digest	08/23/10 10:00	08/23/10 11:15	11/05/10 15:14	11/18/10 23:15	N
20100660	S10V002477	SOLID	Iso-Putonium	Acid Digest	08/24/10 10:30	08/24/10 11:30	11/05/10 15:14	11/18/10 23:15	N
20100660	S10V002496	SOLID	Iso-Putonium	Acid Digest	08/25/10 10:05	08/25/10 11:05	11/05/10 15:14	11/18/10 23:15	N
20100676	S10V002649	LIQUID	Iso-Putonium	NA	08/23/2010 00:45	08/23/2010 11:10	NA	11/09/2010 21:45	N

Holding Time Report: Radiochemistry

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100660	S10V002303	SOLID	Selenium-79	Acid Digest	08/17/10 09:30	08/17/10 11:00	11/08/10 14:50	11/16/10 10:50	N
20100660	S10V002325	SOLID	Selenium-79	Acid Digest	08/17/10 09:30	08/18/10 10:55	11/08/10 14:50	11/16/10 10:50	N
20100660	S10V002357	SOLID	Selenium-79	Acid Digest	08/18/10 09:00	08/18/10 12:00	11/08/10 14:50	11/16/10 10:50	N
20100660	S10V002403	SOLID	Selenium-79	Acid Digest	08/18/10 11:30	08/18/10 12:00	11/08/10 14:50	11/16/10 10:50	N
20100660	S10V002422	SOLID	Selenium-79	Acid Digest	08/19/10 09:10	08/19/10 11:40	11/08/10 14:50	11/16/10 10:50	N
20100660	S10V002441	SOLID	Selenium-79	Acid Digest	08/19/10 10:30	08/19/10 11:40	11/08/10 14:50	11/16/10 10:50	N
20100660	S10V002460	SOLID	Selenium-79	Acid Digest	08/23/10 10:00	08/23/10 11:15	11/08/10 14:50	11/16/10 10:50	N
20100660	S10V002479	SOLID	Selenium-79	Acid Digest	08/24/10 10:30	08/24/10 11:30	11/08/10 14:50	11/16/10 10:50	N
20100660	S10V002498	SOLID	Selenium-79	Acid Digest	08/25/10 10:05	08/25/10 11:05	11/08/10 14:50	11/16/10 10:50	N
20100676	S10V002649	LIQUID	Selenium-79	NA	08/23/2010 00:45	08/23/2010 11:10	NA	09/30/2010 16:00	N
20100676	S10V002649	LIQUID	Strontium-89/90	NA	08/23/2010 00:45	08/23/2010 11:10	NA	09/28/2010 15:20	N
20100660	S10V002301	SOLID	Strontium-89/90	Acid Digest	08/17/10 09:30	08/17/10 11:00	11/05/10 15:09	11/08/10 16:15	N
20100660	S10V002324	SOLID	Strontium-89/90	Acid Digest	08/17/10 09:30	08/18/10 10:55	11/05/10 15:10	11/08/10 16:15	N
20100660	S10V002356	SOLID	Strontium-89/90	Acid Digest	08/18/10 09:00	08/18/10 12:00	11/05/10 15:10	11/08/10 16:15	N
20100660	S10V002402	SOLID	Strontium-89/90	Acid Digest	08/18/10 11:30	08/18/10 12:00	11/05/10 15:10	11/08/10 16:15	N
20100660	S10V002421	SOLID	Strontium-89/90	Acid Digest	08/19/10 09:10	08/19/10 11:40	11/05/10 15:10	11/08/10 16:15	N
20100660	S10V002440	SOLID	Strontium-89/90	Acid Digest	08/19/10 10:30	08/19/10 11:40	11/05/10 15:11	11/08/10 16:15	N
20100660	S10V002459	SOLID	Strontium-89/90	Acid Digest	08/23/10 10:00	08/23/10 11:15	11/05/10 15:11	11/08/10 16:15	N
20100660	S10V002478	SOLID	Strontium-89/90	Acid Digest	08/24/10 10:30	08/24/10 11:30	11/05/10 15:11	11/08/10 16:15	N
20100660	S10V002497	SOLID	Strontium-89/90	Acid Digest	08/25/10 10:05	08/25/10 11:05	11/05/10 15:11	11/08/10 16:15	N
20100660	S10V002283	SOLID	Tritium	Water Digest	08/17/10 09:30	08/17/10 11:00	09/02/10 11:00	11/16/10 11:25	N
20100660	S10V002312	SOLID	Tritium	Water Digest	08/17/10 09:30	08/17/10 11:00	09/02/10 11:00	11/16/10 11:25	N
20100660	S10V002345	SOLID	Tritium	Water Digest	08/18/10 09:00	08/18/10 12:00	09/02/10 11:00	11/16/10 11:25	N
20100660	S10V002394	SOLID	Tritium	Water Digest	08/18/10 11:30	08/18/10 12:00	09/02/10 11:00	11/16/10 11:25	N
20100660	S10V002413	SOLID	Tritium	Water Digest	08/19/10 09:10	08/19/10 11:40	09/02/10 11:00	11/16/10 11:25	N
20100660	S10V002432	SOLID	Tritium	Water Digest	08/19/10 10:30	08/19/10 11:40	09/02/10 11:00	11/16/10 11:25	N
20100660	S10V002451	SOLID	Tritium	Water Digest	08/23/10 10:00	08/23/10 11:15	09/02/10 11:00	11/16/10 11:25	N
20100660	S10V002470	SOLID	Tritium	Water Digest	08/24/10 10:30	08/24/10 11:30	09/02/10 11:00	11/16/10 11:25	N
20100660	S10V002489	SOLID	Tritium	Water Digest	08/25/10 10:05	08/25/10 11:05	09/02/10 11:00	11/16/10 11:25	N
20100676	S10V002648	LIQUID	Tritium	NA	08/23/2010 00:45	08/23/2010 11:10	NA	10/08/2010 10:55	N

Holding Time Report: GC/MS VOA

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20100657	S10V002251	LIQUID	SW846-8260C	SW846-5030C	08/17/10 08:55	08/17/10 11:00	08/25/10 17:49	N
20100657	S10V002241	LIQUID	SW846-8260C	SW846-5030C	08/17/10 09:30	08/17/10 11:00	08/26/10 14:11	N
20100657	S10V002242	LIQUID	SW846-8260C	SW846-5030C	08/17/10 09:30	08/17/10 11:00	08/25/10 16:20	N
20100657	S10V002252	LIQUID	SW846-8260C	SW846-5030C	08/18/10 08:45	08/18/10 12:00	08/25/10 18:19	N
20100657	S10V002243	LIQUID	SW846-8260C	SW846-5030C	08/18/10 09:25	08/18/10 12:00	08/25/10 16:50	N
20100657	S10V002244	LIQUID	SW846-8260C	SW846-5030C	08/18/10 10:30	08/18/10 13:27	08/25/10 17:20	N
20100657	S10V002253	LIQUID	SW846-8260C	SW846-5030C	08/19/10 08:30	08/19/10 12:45	08/26/10 17:10	N
20100657	S10V002245	LIQUID	SW846-8260C	SW846-5030C	08/19/10 08:45	08/19/10 11:40	08/26/10 14:41	N
20100657	S10V002246	LIQUID	SW846-8260C	SW846-5030C	08/19/10 10:05	08/19/10 11:40	08/26/10 16:10	N
20100657	S10V002255	LIQUID	SW846-8260C	SW846-5030C	08/23/10 08:45	08/23/10 11:15	08/26/10 18:38	N
20100657	S10V002247	LIQUID	SW846-8260C	SW846-5030C	08/23/10 08:55	08/23/10 11:15	08/26/10 18:09	N
20100657	S10V002254	LIQUID	SW846-8260C	SW846-5030C	08/24/10 09:30	08/24/10 11:30	08/26/10 17:39	N
20100657	S10V002248	LIQUID	SW846-8260C	SW846-5030C	08/24/10 09:35	08/24/10 11:30	08/26/10 16:40	N
20100657	S10V002256	LIQUID	SW846-8260C	SW846-5030C	08/25/10 08:45	08/25/10 11:05	08/27/10 14:45	N
20100657	S10V002249	LIQUID	SW846-8260C	SW846-5030C	08/25/10 08:55	08/25/10 11:05	08/27/10 14:15	N
20100660	S10V002273	SOLID	SW846-8260C	SW-846 5035A	08/17/10 09:30	08/17/10 11:00	08/24/10 14:14	N
20100660	S10V002306	SOLID	SW846-8260C	SW-846 5035A	08/17/10 09:30	08/17/10 11:00	08/24/10 16:12	N
20100660	S10V002327	SOLID	SW846-8260C	SW-846 5035A	08/18/10 09:00	08/18/10 12:00	08/24/10 16:41	N
20100660	S10V002358	SOLID	SW846-8260C	SW-846 5035A	08/18/10 10:15	08/18/10 12:00	08/24/10 17:11	N
20100660	S10V002404	SOLID	SW846-8260C	SW-846 5035A	08/19/10 09:10	08/19/10 11:40	08/24/10 17:41	N
20100660	S10V002423	SOLID	SW846-8260C	SW-846 5035A	08/19/10 10:30	08/19/10 11:40	08/24/10 18:10	N
20100660	S10V002442	SOLID	SW846-8260C	SW-846 5035A	08/23/10 10:00	08/23/10 11:15	08/24/10 18:40	N
20100660	S10V002461	SOLID	SW846-8260C	SW-846 5035A	08/24/10 10:30	08/24/10 11:30	08/24/10 19:09	N
20100660	S10V002480	SOLID	SW846-8260C	SW-846 5035A	08/25/10 10:05	08/25/10 11:05	08/27/10 17:14	N
20100676	S10V002645	LIQUID	SW846-8260C	SW846-5030C	08/23/10 00:45	08/23/10 11:10	09/10/10 15:59	**Y**

Holding Time Report: GC/MS SVOA

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20100660	S10V002285	SOLID	SW-846-8270D	SW-846 3540C	08/17/10 09:30	08/17/10 11:00	08/23/10 15:52	09/01/10 16:11	N
20100660	S10V002314	SOLID	SW-846-8270D	SW-846 3540C	08/17/10 09:30	08/17/10 11:00	08/23/10 15:52	09/01/10 13:33	N
20100660	S10V002349	SOLID	SW-846-8270D	SW-846 3540C	08/18/10 09:00	08/18/10 12:00	08/23/10 15:52	09/01/10 16:57	N
20100660	S10V002396	SOLID	SW-846-8270D	SW-846 3540C	08/18/10 11:30	08/18/10 12:00	08/23/10 15:52	09/01/10 17:42	N
20100660	S10V002415	SOLID	SW-846-8270D	SW-846 3540C	08/19/10 09:10	08/19/10 11:40	08/25/10 15:45	09/02/10 00:15	N
20100660	S10V002434	SOLID	SW-846-8270D	SW-846 3540C	08/19/10 10:30	08/19/10 11:40	08/25/10 15:45	09/02/10 01:00	N
20100660	S10V002453	SOLID	SW-846-8270D	SW-846 3540C	08/23/10 10:00	08/23/10 11:15	08/25/10 15:45	09/01/10 21:59	N
20100660	S10V002472	SOLID	SW-846-8270D	SW-846 3540C	08/24/10 10:30	08/24/10 11:30	08/25/10 15:45	09/02/10 01:45	N
20100660	S10V002491	SOLID	SW-846-8270D	SW-846 3540C	08/25/10 10:05	08/25/10 11:05	09/07/10 16:02	09/13/10 14:52	N
20100676	S10V002646	LIQUID	SW-846-8270D	SW-846 3520C	08/23/10 00:45	08/23/10 11:10	08/31/10 10:58	09/08/10 14:35	N

Attachment 4

ADDITIONAL QC RESULTS

HG Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2010-2

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B26JL0	S10V002280	Mercury	101	102	75	125	1.22	20
B26PF9	S10V002647	Mercury	103	103	75	125	0.777	20

SVOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2010-2

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B26C57	S10V002453	1,2,4-Trichlorobenzene	56.9	54.5	2	128	4.38	30
		2,4-Dinitrotoluene	83.5	87.4	55	111	4.52	30
		2-Chlorophenol	71.3	72.6	28	111	1.85	30
		4-Chloro-3-methylphenol	68.1	68.6	42	103	0.740	30
		Acenaphthene	69.3	71.8	36	114	3.50	30
		N-Nitrosodipropylamine	64.8	66.5	18	108	2.62	30
		Pyrene	88.6	86.4	64	113	2.54	30
B26C61	S10V002491	1,2,4-Trichlorobenzene	59.6	61.0	2	128	2.37	30
		2,4-Dinitrotoluene	78.4	79.1	55	111	0.887	30
		2-Chlorophenol	70.1	68.2	28	111	2.81	30
		4-Chloro-3-methylphenol	65.5	67.0	42	103	2.36	30
		Acenaphthene	67.2	70.3	36	114	4.56	30
		N-Nitrosodipropylamine	61.4	64.4	18	108	4.90	30
		Pyrene	75.9	80.8	64	113	6.32	30
B26JL1	S10V002314	1,2,4-Trichlorobenzene	63.3	57.3	2	128	9.91	30
		2,4-Dinitrotoluene	86.1	83.2	55	111	3.47	30
		2-Chlorophenol	70.9	65.2	28	111	8.42	30
		4-Chloro-3-methylphenol	63.5	63.7	42	103	0.303	30
		Acenaphthene	72.6	69.1	36	114	4.90	30
		N-Nitrosodipropylamine	64.5	62.2	18	108	3.64	30
		Pyrene	75.1	76.6	64	113	1.94	30
B26PF9	S10V002646	1,2,4-Trichlorobenzene	38.9	41.5	22.6	92.5	6.42	30
		2,4-Dinitrotoluene	71.3	78.6	37	136.3	9.72	
		2-Chlorophenol	64.3	65.0	42	109	1.08	30
		4-Chloro-3-methylphenol	60.5	61.7	49	102	2.03	30
		Acenaphthene	58.9	66.1	34	113	11.5	30
		N-Nitrosodipropylamine	64.9	70.5	39	108	8.26	30
		Pyrene	70.1	76.7	45	134	8.93	30

VOA 222S #2 Analysis Matrix Spike/Matrix Spike Duplicate Summary for C Farm WMC 2010-2

Client Sample Id	Sample Id	Analyte	MS Recovery %	MSD Recovery %	Lower Limit	Upper Limit	RPD %	RPD Limit
B26CY1	S10V002241	1,1-Dichloroethene	92.0	103	62	151	11.7	30
		1-Butanol	94.8	108	73	140	12.9	30
		2-Butanone	84.8	93.2	60	146	9.43	30
		4-Methyl-2-pentanone	92.8	102	75	137	9.64	30
		Acetone	77.7	83.5	55	139	7.21	30
		Benzene	94.0	98.1	86	120	4.27	30
		Chlorobenzene	97.1	102	88	113	5.22	30
		Toluene	96.4	104	83	118	7.81	30
		Trichloroethene	93.0	98.5	71	128	5.65	30
B26CY5	S10V002245	1,1-Dichloroethene	95.0	100	62	151	5.24	30
		1-Butanol	91.9	88.6	73	140	3.65	30
		2-Butanone	80.9	96.0	60	146	17.1	30
		4-Methyl-2-pentanone	87.3	77.7	75	137	11.7	30
		Acetone	75.7	85.6	55	139	12.3	30
		Benzene	92.2	97.2	86	120	5.27	30
		Chlorobenzene	93.7	94.8	88	113	1.16	30
		Toluene	93.7	97.0	83	118	3.51	30
		Trichloroethene	93.4	104	71	128	10.3	30
B26JM0	S10V002273	1,1-Dichloroethene	122	128	67	129	4.74	30
		1-Butanol	106	143	68	143	30.3	30
		2-Butanone	112	124	56	143	10.0	30
		4-Methyl-2-pentanone	109	125	59	151	13.4	30
		Acetone	99.8	113	66	134	12.4	30
		Benzene	103	106	78	122	2.42	30
		Chlorobenzene	100	100	80	121	0.0799	30
		Toluene	97.5	102	88	124	4.79	30
		Trichloroethene	106	106	77	119	0.0850	30
B26PF9	S10V002645	1,1-Dichloroethene	123	121	62	151	2.03	30
		1-Butanol	115	105	73	140	8.89	30
		2-Butanone	112	107	60	146	4.90	30
		4-Methyl-2-pentanone	114	110	75	137	2.88	30
		Acetone	110	104	55	139	5.25	30
		Benzene	109	115	86	120	4.54	30
		Chlorobenzene	101	106	88	113	5.19	30
		Toluene	102	107	83	118	4.59	30
		Trichloroethene	109	111	71	128	1.37	30

VOA Batch # 21533

FORM 2

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100824_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	CCB	111	120	106	107	0
02	LCS	110	113	107	104	0
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1	= Dibromofluoromethane	(77-129)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(73-140)
SMC3 (TOL)	= Toluene-d8	(70-126)
OTHER(BFB)	= Bromofluorobenzene	(79-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOA Batch #21533

FORM 2

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100824_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	S10V002273	104	107	101	100	0
02	S10V002273MS	111	112	102	103	0
03	S10V002273MS	112	119	105	107	0
04	S10V002306SA	111	109	92	102	0
05	S10V002327SA	112	113	102	104	0
06	S10V002358SA	113	117	101	100	0
07	S10V002404SA	113	122	102	102	0
08	S10V002423SA	114	118	102	102	0
09	S10V002442SA	117	125	102	105	0
10	S10V002461SA	113	122	101	104	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(74-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(78-133)
SMC3 (TOL)	= Toluene-d8	(74-128)
OTHER(BFB)	= Bromofluorobenzene	(64-144)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOA Batch # 21533

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: 222-S Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100824_CFARM

Matrix Spike - Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	20.000		20.941	105	66-141
Acetone	100.00		91.525	92	58-135
2-Butanone	100.00		101.80	102	50-149
n-Butanol	200.00		223.19	112	53-148
Benzene	20.000		21.100	106	70-126
Trichloroethene	20.000		20.853	104	71-127
Methyl Isobutyl Ketone	100.00		104.96	105	61-145
Toluene	20.000		20.614	103	71-125
2-Hexanone	100.00		104.75	105	59-148
Chlorobenzene	20.000		20.128	101	81-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100825CFARMVOA

Batch 21601 8/25/10

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	LCS	100	99	105	107	0
02	CCB	104	107	104	104	0
03						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER(BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOA Batch #21601

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100825CFARMVOA

Summary For Batch 21601, 8/25/10

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
1- 01	S10V002241	99	103	94	102	0
02	S10V002241MS	99	101	100	99	0
03	S10V002241MS	107	106	108	104	0
04	S10V002242	102	102	102	99	0
05	S10V002243	100	103	101	102	0
06	S10V002244	101	98	100	100	0
07	S10V002251	100	97	100	100	0
08	S10V002252	104	102	102	101	0
09						
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12	1- Severe loss of internal standard					
13	response. Result not reported.					
14	Rerun performed on 8/26/10.					
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MP 11/30/10

		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOA Batch #21601

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100825CFARMVOA

Matrix Spike - Sample No.: LCS

Batch 21601, 8/25/10

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	10.000		9.430	94	62-151
Acetone	50.000		50.311	101	55-139
2-Butanone	50.000		38.732	77	60-146
n-Butanol	100.00		85.290	85	73-140
Benzene	10.000		9.586	96	86-120
Trichloroethene	10.000		9.632	96	71-128
Methyl Isobutyl Ketone	50.000		42.779	86	75-137
Toluene	10.000		9.971	100	83-118
2-Hexanone	50.000		41.729	83	71-141
Chlorobenzene	10.000		9.846	98	88-113

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100826CFRMVOA

Batch 21716 8/26/10

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB	101	96	102	101	0
02	LCS	101	102	105	101	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER(BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100826CFRMVOA

Summary For batch 21716, 8/26/10

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V002241	98	95	98	98	0
02	S10V002245	94	93	97	94	0
03	S10V002245MS	96	96	97	94	0
04	S10V002245MS	99	97	103	128	0
05	S10V002246	97	96	100	102	0
06	S10V002248	99	96	98	98	0
07	S10V002253	98	99	100	98	0
08	S10V002254	101	100	98	97	0
09	S10V002247	100	99	97	95	0
10	S10V002255	103	97	100	98	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100826CFRMVOA

Matrix Spike - Sample No.: LCS

Batch 21716 8/26/10

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	10.000		10.074	101	62-151
Acetone	50.000		40.243	80	55-139
2-Butanone	50.000		42.367	85	60-146
n-Butanol	100.00		96.932	97	73-140
Benzene	10.000		9.750	98	86-120
Trichloroethene	10.000		9.899	99	71-128
Methyl Isobutyl Ketone	50.000		47.007	94	75-137
Toluene	10.000		10.162	102	83-118
2-Hexanone	50.000		45.915	92	71-141
Chlorobenzene	10.000		10.003	100	88-113

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA

VOA Batch #21718

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	CCB	103	100	104	102	0
02	LCS	105	109	104	100	0
03						
04						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER(BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOA Batch # 21718

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	S10V002249	101	101	98	96	0
02	S10V002256	105	102	103	101	0
03	S10V001856	103	101	96	95	0
04	S10V001856MS	105	102	101	98	0
05	S10V001856MS	104	103	102	99	0
06	S10V001846	101	100	96	100	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOA Batch #21718

FORM 3
WATER VOLATILE LAB CONTROL SAMPLE

Lab Name: 222-S Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

Matrix Spike - Sample No.: LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	11.111		11.028	99	62-151
Acetone	55.556		42.738	77	55-139
2-Butanone	55.556		46.490	84	60-146
n-Butanol	111.11		103.16	93	73-140
Benzene	11.111		11.068	100	86-120
Trichloroethene	11.111		11.093	100	71-128
Methyl Isobutyl Ketone	55.556		50.740	91	75-137
Toluene	11.111		11.375	102	83-118
2-Hexanone	55.556		50.674	91	71-141
Chlorobenzene	11.111		11.236	101	88-113

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA

VOA Batch #21719

FORM 2

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	CCB	108	111	105	107	0
02	LCS	109	114	105	105	0
03						
04						
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06						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(77-129)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(73-140)
SMC3 (TOL)	= Toluene-d8	(70-126)
OTHER(BFB)	= Bromofluorobenzene	(79-125)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOA Batch #21719

FORM 2

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

Level:(low/med) LOW

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE)#	SMC3 (TOL)#	OTHER (BFB)#	TOT OUT
01	S10V002480	108	112	101	101	0
02	S10V001866	108	115	102	105	0
03	S10V001866MS	113	118	103	104	0
04	S10V001866MS	115	123	104	105	0
05	S10V001883	116	120	100	106	0
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		QC LIMITS
SMC1	= Dibromofluoromethane	(74-126)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(78-133)
SMC3 (TOL)	= Toluene-d8	(74-128)
OTHER(BFB)	= Bromofluorobenzene	(64-144)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOA Batch # 21719

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100827_CFARM

Matrix Spike - Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	20.000		20.767	104	66-141
Acetone	100.00		107.57	108	58-135
2-Butanone	100.00		109.51	110	50-149
n-Butanol	200.00		234.26	117	53-148
Benzene	20.000		20.558	103	70-126
Trichloroethene	20.000		20.963	105	71-127
Methyl Isobutyl Ketone	100.00		114.59	114	61-145
Toluene	20.000		20.522	103	71-125
2-Hexanone	100.00		116.72	117	59-148
Chlorobenzene	20.000		20.725	104	81-120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III VOA

VOA Batch # 23317

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100910CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	CCB	110	109	105	99	0
02	LCS	111	112	101	96	0
03						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(85-123)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(83-123)
SMC3 (TOL)	= Toluene-d8	(82-121)
OTHER(BFB)	= Bromofluorobenzene	(82-126)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

page 1 of 1 FORM II VOA

VOA Batch # 23317

FORM 2
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: 100910CFARM

	CLIENT SAMPLE NO.	SMC1 #	SMC2 (DCE) #	SMC3 (TOL) #	OTHER (BFB) #	TOT OUT
01	S10V002645	108	106	98	98	0
02	S10V002645MS	114	111	100	96	0
03	S10V002645MS	116	118	104	101	0
04						
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		QC LIMITS
SMC1	= Dibromofluoromethane	(73-136)
SMC2 (DCE)	= 1,2-Dichloroethane-d4	(77-132)
SMC3 (TOL)	= Toluene-d8	(86-119)
OTHER(BFB)	= Bromofluorobenzene	(82-128)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

VOA Batch #23317

Data File: 10091006LCS.D
Report Date: 07-Nov-2010 14:33

WSCF

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: LCS
Level: LOW
Data Type: MS DATA
SpikeList File: 2009LCS_LIQ.spk
Sublist File: 2009QC.sub
Method File: \\APWSCF02\slab\chem\Ohura.i\data\V100910CFarm.b\8260S100803.m
Misc Info: VOA

Client SDG: 100910CFarm
Fraction: VOA
Client Smp ID: LCS
Operator: awg
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
14 1,1-Dichloroethene	10.000	12.363	123.63	77-136
19 Acetone	50.000	49.549	99.10	61-136
38 2-Butanone	50.000	51.758	103.52	70-130
41 Benzene	10.000	10.970	109.70	87-120
47 Trichloroethene	10.000	10.819	108.19	82-122
49 n-Butanol	100.00	111.91	111.91	61-143
59 Toluene	10.000	10.449	104.49	87-119
60 Methyl Isobutyl Ke	50.000	52.342	104.68	81-127
68 2-Hexanone	50.000	52.306	104.61	76-134
72 Chlorobenzene	10.000	10.385	103.85	88-119

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 35 Dibromofluorometha	10.000	11.135	111.35	85-123
$ 43 1,2-Dichloroethane	10.000	11.244	112.44	83-123
$ 57 Toluene-d8	10.000	10.067	100.67	82-121
$ 79 Bromofluorobenzene	10.000	9.658	96.58	82-126

SVOA Batch # 21694

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMC_F

Level:(low/med) LOW

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	70	67	61	72	84	88			0
02	LCS	71	68	66	73	82	94			0
03	S10V002453	62	59	54	67	84	84			0
04	S10V002453MS	73	72	68	78	90	101			0
05	S10V002453MS	73	75	67	80	93	97			0
06	S10V002415	67	63	48	76	92	97			0
07	S10V002434	65	61	58	69	85	89			0
08	S10V002472	63	57	49	67	91	91			0
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		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(10-147)
S2 (2FP)	= 2-Fluorophenol	(0-127)
S3 (NBZ)	= Nitrobenzene-d5	(0-125)
S4	= Phenol-d6	(37-125)
S5 (TBP)	= 2,4,6-Tribromophenol	(40-176)
S6 (TPH)	= Terphenyl-d14	(71-175)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

SVOA Batch # 21694

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMC_F

Matrix Spike - CHG Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	2000.0		1215.9	61	2-128
2,4-Dinitrotoluene	2000.0		1604.0	80	55-111
Acenaphthene	2000.0		1376.6	69	36-114
4-Chloro-3-Methylphenol	4000.0		2494.3	62	42-103
2-Chlorophenol	4000.0		2704.2	68	28-111
N-Nitroso-di-n-prop.(1)	2000.0		1237.2	62	18-108
Pyrene	2000.0		1601.9	80	64-113

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 7 outside limits

COMMENTS: _____

FORM III SV

SVOA Batch # 21831

FORM 2
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMCG

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	19	65	63	71	66	78			0
02	LCS	31	69	71	76	77	85			0
03	S10V002646	40	66	67	70	68	80			0
04	S10V002646MS	48	64	71	69	72	82			0
05	S10V002646MS	51	68	72	74	77	84			0
06										
07										
08										
09										
10										
11										
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27										
28										
29										
30										

		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(19-116)
S2 (2FP)	= 2-Fluorophenol	(30-172)
S3 (NBZ)	= Nitrobenzene-d5	(61-171)
S4	= Phenol-d6	(29-180)
S5 (TBP)	= 2,4,6-Tribromophenol	(26-136)
S6 (TPH)	= Terphenyl-d14	(53-135)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

SVOA Batch # 21831

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMCG

Matrix Spike - CHG Sample No.: LCS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	571.43		218.89	38	23- 92
2,4-Dinitrotoluene	571.43		428.66	75	37-136
Acenaphthene	571.43		319.41	56	34-113
4-Chloro-3-Methylphenol	1142.8		743.41	65	49-102
2-Chlorophenol	1142.8		759.97	66	42-109
N-Nitroso-di-n-prop.(1)	571.43		393.86	69	39-108
Pyrene	571.43		446.56	78	45-134

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 7 outside limits

COMMENTS: _____

FORM III SV

SVOA Batch # 22129

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMC_E

Level:(low/med) LOW

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	71	66	67	70	88	100			0
02	LCS	81	77	75	83	95	100			0
03	S10V002314	67	62	60	68	83	92			0
04	S10V002314MS	77	70	71	76	88	89			0
05	S10V002314MS	71	66	63	72	90	92			0
06	S10V002285	76	69	70	76	87	95			0
07	S10V002349	69	66	63	72	87	101			0
08	S10V002396	66	63	58	69	82	95			0
09										
10										
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30										

		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(10-147)
S2 (2FP)	= 2-Fluorophenol	(0-127)
S3 (NBZ)	= Nitrobenzene-d5	(0-125)
S4	= Phenol-d6	(37-125)
S5 (TBP)	= 2,4,6-Tribromophenol	(40-176)
S6 (TPH)	= Terphenyl-d14	(71-175)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

SVOA Batch # 22129

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMC_E

Matrix Spike - CHG Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	2000.0		1314.9	66	2-128
2,4-Dinitrotoluene	2000.0		1797.9	90	55-111
Acenaphthene	2000.0		1499.4	75	36-114
4-Chloro-3-Methylphenol	4000.0		2786.0	70	42-103
2-Chlorophenol	4000.0		2926.4	73	28-111
N-Nitroso-di-n-prop.(1)	2000.0		1338.3	67	18-108
Pyrene	2000.0		1673.3	84	64-113

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 7 outside limits

COMMENTS: _____

FORM III SV

SVOA Batch# 22254

FORM 2
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMCH

Level:(low/med) LOW

	CHG SAMPLE NO.	S1 (FBP)#	S2 (2FP)#	S3 (NBZ)#	S4 #	S5 (TBP)#	S6 (TPH)#	S7 #	S8 #	TOT OUT
01	BLANK	70	66	62	70	71	97			0
02	LCS	72	70	70	75	80	99			0
03	S10V002491	63	60	58	65	76	86			0
04	S10V002491MS	70	70	65	74	86	87			0
05	S10V002491MS	70	70	66	75	88	93			0
06	S10V001912	63	60	58	65	78	86			0
07	S10V001932	64	61	61	66	77	96			0
08	S10V001952	74	78	66	83	82	102			0
09	S10V001972	63	61	60	66	72	78			0
10	S10V001972MS	60	63	57	68	79	83			0
11	S10V001972MS	58	56	54	62	74	82			0
12	S10V002058	58	57	50	63	71	87			0
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS
S1 (FBP)	= 2-Fluorobiphenyl	(10-147)
S2 (2FP)	= 2-Fluorophenol	(0-127)
S3 (NBZ)	= Nitrobenzene-d5	(0-125)
S4	= Phenol-d6	(37-125)
S5 (TBP)	= 2,4,6-Tribromophenol	(40-176)
S6 (TPH)	= Terphenyl-d14	(71-175)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

SVOA Batch # 22254

FORM 3
SOIL SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: CFARMWMCH

Matrix Spike - CHG Sample No.: LCS Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
1,2,4-Trichlorobenzene	2000.0		1201.1	60	2-128
2,4-Dinitrotoluene	2000.0		1555.3	78	55-111
Acenaphthene	2000.0		1359.2	68	36-114
4-Chloro-3-Methylphenol	4000.0		2507.5	63	42-103
2-Chlorophenol	4000.0		2720.4	68	28-111
N-Nitroso-di-n-prop.(1)	2000.0		1275.4	64	18-108
Pyrene	2000.0		1726.5	86	64-113

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 7 outside limits

COMMENTS: _____

FORM III SV

Matrix Spike Summary for C7676/C7682*

Batch	Client Sample Id	Lab Sample Id	Analyte	MS Recovery %	Lower Limit (%)	Upper Limit (%)
22686	B26CD0	S10V001768	Carbon-14	94.7	75	125
23864	B26CD0	S10V001772	Neptunium-237	98.0	75	125
			Thorium-232	95.1	75	125
			Uranium-235	101	75	125
			Uranium-238	106	75	125
23853	B26CD4	S10V001814	Technetium-99	108	75	125
			Tin-117	74.5	75	125
24036	B26CD0	S10V001772	Cadmium	105	75	125
			Lead	88.6	75	125
			Silver	38.7	75	125
			Thallium	102	75	125
23162	B29612 WE	S10V001657	Technetium-99	101	75	125
23378	B26CD0	S10V001768	Tritium	97.0	75	125

* For these analyses C7676 and C7682 were analyzed together. All MS samples were from C7676. 1

Attachment 5

TICs FOR ORGANIC ANALYSES

22-Feb-2011 9:5447
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX1

Sample Depth: Trip Blank 1

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002251				Unknown-1		15.31	ug/L	3.9	BJ
S10V002251				Unknown-2		17.03	ug/L	3.9	BJ
S10V002251			BLNK	Unknown-1		15.31	ug/L	2.8	
S10V002251			BLNK	Unknown-2		17.03	ug/L	3.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit
J - Estimated

22-Feb-2011 9:5447
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX2

Sample Depth: Trip Blank 2

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002252				Unknown-1		15.31	ug/L	10	BJ
S10V002252				Unknown-2		17.03	ug/L	9.8	BJ
S10V002252			BLNK	Unknown-1		15.31	ug/L	2.8	
S10V002252			BLNK	Unknown-2		17.03	ug/L	3.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit
J - Estimated

22-Feb-2011 9:5447
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX3

Sample Depth: Trip Blank 3

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002253				Unknown-1		15.31	ug/L	8.1	BJ
S10V002253				Unknown-2		17.03	ug/L	5.0	BJ
S10V002253			BLNK	Unknown-1		15.31	ug/L	2.6	
S10V002253			BLNK	Unknown-2		17.04	ug/L	1.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit

22-Feb-2011 9:5447
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX4

Sample Depth: Trip Blank 4

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002254				Unknown-1		15.31	ug/L	4.3	BJ
S10V002254				Unknown-2		17.03	ug/L	2.8	BJ
S10V002254			BLNK	Unknown-1		15.31	ug/L	2.6	
S10V002254			BLNK	Unknown-2		17.04	ug/L	1.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit

22-Feb-2011 9:5447
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX5

Sample Depth: Trip Blank 5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002255				Unknown-1		15.31	ug/L	4.7	BJ
S10V002255				Unknown-2		17.03	ug/L	4.4	BJ
S10V002255			BLNK	Unknown-1		15.31	ug/L	2.6	
S10V002255			BLNK	Unknown-2		17.04	ug/L	1.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit

22-Feb-2011 9:5447
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CX6

Sample Depth: Trip Blank 6

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002256				Unknown-1		15.31	ug/L	4.5	BJ
S10V002256				Unknown-2		17.03	ug/L	2.9	BJ
S10V002256			BLNK	Unknown-1		15.32	ug/L	1.6	
S10V002256			BLNK	Unknown-2		17.04	ug/L	0.81	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit

22-Feb-2011 9:5447
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.27

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY1

Sample Depth: Field Blank 1

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002241				Unknown-1		15.32	ug/L	5.1	BJ
S10V002241				Unknown-2		17.03	ug/L	5.6	BJ
S10V002241			BLNK	Unknown-1		15.31	ug/L	2.6	
S10V002241			BLNK	Unknown-2		17.04	ug/L	1.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY2

Sample Depth: Field Blank 2

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002242				Unknown-1		15.31	ug/L	3.5	BJ
S10V002242				Unknown-2		17.03	ug/L	2.4	BJ
S10V002242			BLNK	Unknown-1		15.31	ug/L	2.8	
S10V002242			BLNK	Unknown-2		17.03	ug/L	3.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY3

Sample Depth: Field Blank 3

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002243				Unknown-1		15.31	ug/L	4.3	BJ
S10V002243				Unknown-2		17.03	ug/L	3.5	BJ
S10V002243			BLNK	Unknown-1		15.31	ug/L	2.8	
S10V002243			BLNK	Unknown-2		17.03	ug/L	3.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY4

Sample Depth: Field Blank 4

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002244				Unknown-1		15.31	ug/L	7.0	BJ
S10V002244				Unknown-2		17.03	ug/L	5.7	BJ
S10V002244			BLNK	Unknown-1		15.31	ug/L	2.8	
S10V002244			BLNK	Unknown-2		17.03	ug/L	3.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY5

Sample Depth: Field Blank 5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002245				Unknown-1		15.31	ug/L	4.9	BJ
S10V002245				Unknown-2		17.03	ug/L	3.3	BJ
S10V002245			BLNK	Unknown-1		15.31	ug/L	2.6	
S10V002245			BLNK	Unknown-2		17.04	ug/L	1.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY6

Sample Depth: Field Blank 6

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002246				Unknown-1		15.31	ug/L	7.5	BJ
S10V002246				Unknown-2		17.03	ug/L	4.8	BJ
S10V002246			BLNK	Unknown-1		15.31	ug/L	2.6	
S10V002246			BLNK	Unknown-2		17.04	ug/L	1.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY7

Sample Depth: Field Blank 7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002247				Unknown-1		15.31	ug/L	7.8	BJ
S10V002247				Unknown-2		17.03	ug/L	4.5	BJ
S10V002247			BLNK	Unknown-1		15.31	ug/L	2.6	
S10V002247			BLNK	Unknown-2		17.04	ug/L	1.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY8

Sample Depth: Field Blank 8

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002248				Unknown-1		15.31	ug/L	4.6	BJ
S10V002248				Unknown-2		17.03	ug/L	3.7	BJ
S10V002248			BLNK	Unknown-1		15.31	ug/L	2.6	
S10V002248			BLNK	Unknown-2		17.04	ug/L	1.5	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100657

Core Number: C7682

Customer Sample ID: B26CY9

Sample Depth: Field Blank 9

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002249				Unknown-1		15.31	ug/L	3.5	BJ
S10V002249				Unknown-2		17.04	ug/L	2.0	BJ
S10V002249			BLNK	Unknown-1		15.32	ug/L	1.6	
S10V002249			BLNK	Unknown-2		17.04	ug/L	0.81	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C47

Sample Depth: 5-7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002349		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	260	BJN
S10V002349		O	BLNK	Amylene Hydrate	75-85-4	3.08	ug/kg	220	
S10V002349		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	820	
S10V002349		O	BLNK	Unknown-1		18.88	ug/kg	250	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C48

Sample Depth: 5-7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002327				Unknown-1		17.03	ug/kg	1.7	J

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C51

Sample Depth: 12-14

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002396		O		Unknown-1		3.08	ug/kg	200	J
S10V002396		O		Unknown-2		12.32	ug/kg	800	J
S10V002396		O		Unknown-3		12.37	ug/kg	480	J
S10V002396		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	380	BJN
S10V002396		O		Unknown-4		18.88	ug/kg	250	BJ
S10V002396		O	BLNK	Amylene Hydrate	75-85-4	3.08	ug/kg	220	
S10V002396		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	820	
S10V002396		O	BLNK	Unknown-1		18.88	ug/kg	250	

NA = Not Analyzed, ND = Not Detectec

X - Comment
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit
J - Estimated

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C53

Sample Depth: 14-16

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002415		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	420	BJN
S10V002415		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	560	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C55

Sample Depth: 18-20

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002434		O		Unknown Phthalate-1		15.01	ug/kg	540	J
S10V002434		O		Unknown-2		15.38	ug/kg	210	J
S10V002434		O		Unknown-3		19.14	ug/kg	270	J
S10V002434		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	560	

NA = Not Analyzed, ND = Not Detectec

X - Comment
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit
J - Estimated

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C57

Sample Depth: 45-47

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002453		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	470	BJN
S10V002453		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	560	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C59

Sample Depth: 88-90

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002472		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	410	BJN
S10V002472		O		Unknown-1		19.14	ug/kg	230	J
S10V002472		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	560	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C61

Sample Depth: 122-124

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002491		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	460	BJN
S10V002491		O	BLNK	Unknown-1		2.63	ug/kg	350	
S10V002491		O	BLNK	Unknown-2		2.95	ug/kg	280	
S10V002491		O	BLNK	Amylene Hydrate	75-85-4	3.10	ug/kg	240	
S10V002491		O	BLNK	Unknown-3		12.32	ug/kg	630	
S10V002491		O	BLNK	Unknown-4		12.36	ug/kg	330	
S10V002491		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	320	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26C62

Sample Depth: 122-124

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002480				Unknown-1		10.34	ug/kg	0.93	J
S10V002480				Unknown-2		15.03	ug/kg	1.3	J
S10V002480				3-Heptanone	106-35-4	15.40	ug/kg	2.5	JN
S10V002480				2-Octanone	111-13-7	16.69	ug/kg	4.6	JN
S10V002480				1-Hexanol, 2-ethyl-	104-76-7	16.83	ug/kg	6.4	JN

NA = Not Analyzed, ND = Not Detectec

X - Comment
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit
J - Estimated

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL0

Sample Depth: Surface

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002285		O		Amylene Hydrate	75-85-4	3.09	ug/kg	230	BJN
S10V002285		O		3-Buten-2-one, 3-methy	814-78-8	3.37	ug/kg	250	JN
S10V002285		O		Unknown Phthalate-1		15.01	ug/kg	380	J
S10V002285		O	BLNK	Amylene Hydrate	75-85-4	3.08	ug/kg	220	
S10V002285		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	820	
S10V002285		O	BLNK	Unknown-1		18.88	ug/kg	250	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit

C Farm WMC 2010-2

Data Summary and Opportunistic Analyte Results

Sample Group: 20100660

Core Number: C7682

Customer Sample ID: B26JL1

Sample Depth: Surface Dup

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002314		O		1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	210	BJN
S10V002314		O	BLNK	Amylene Hydrate	75-85-4	3.08	ug/kg	220	
S10V002314		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	15.01	ug/kg	820	
S10V002314		O	BLNK	Unknown-1		18.88	ug/kg	250	

NA = Not Analyzed, ND = Not Detectec

X - Comment
J - Estimated

B - Blank Contamination

N - Named TIC

U - Less Than Detection Limit

C Farm WMC 2010-2
Data Summary and Opportunistic Analyte Results

Sample Group: 20100676

Core Number: C7682

Customer Sample ID: B26PF9

Sample Depth: Equipment Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S10V002645				Unknown-1		8.17	ug/L	0.74	J
S10V002645				Unknown-2		15.31	ug/L	6.4	BJ
S10V002645				Unknown-3		17.03	ug/L	4.3	BJ
S10V002645			BLNK	Unknown-1		15.31	ug/L	1.6	
S10V002645			BLNK	Unknown-2		17.03	ug/L	1.0	

NA = Not Analyzed, ND = Not Detectec

X - Comment
B - Blank Contamination
N - Named TIC
U - Less Than Detection Limit
J - Estimated

Attachment 6

ANALYTICAL BATCH AND LABORATORY SAMPLE ID INDEX

Batch/Sample Index

Project: C Farm WMC 2010-2
Group: 20100660
Core Hole C 7682

METHOD	BATCH	SAMPLE	MATRIX
%WATER-APD	00021921	S10V002280	SOLID
%WATER-APD	00021921	S10V002309	SOLID
%WATER-APD	00021921	S10V002338	SOLID
%WATER-APD	00021921	S10V002391	SOLID
%WATER-APD	00021921	S10V002410	SOLID
%WATER-APD	00021921	S10V002429	SOLID
%WATER-APD	00021921	S10V002448	SOLID
%WATER-APD	00021921	S10V002467	SOLID
%WATER-APD	00021921	S10V002486	SOLID
AMERICIUM	00022643	S10V002649	LIQUID
AMERICIUM	00023879	S10V002294	SOLID
AMERICIUM	00023879	S10V002323	SOLID
AMERICIUM	00023879	S10V002355	SOLID
AMERICIUM	00023879	S10V002401	SOLID
AMERICIUM	00023879	S10V002420	SOLID
AMERICIUM	00023879	S10V002439	SOLID
AMERICIUM	00023879	S10V002458	SOLID
AMERICIUM	00023879	S10V002477	SOLID
AMERICIUM	00023879	S10V002496	SOLID
CARBON-14	00022221	S10V002648	LIQUID
CARBON-14	00022686	S10V002283	SOLID
CARBON-14	00022686	S10V002312	SOLID
CARBON-14	00022686	S10V002345	SOLID
CARBON-14	00022686	S10V002394	SOLID
CARBON-14	00022686	S10V002413	SOLID
CARBON-14	00022686	S10V002432	SOLID
CARBON-14	00022686	S10V002451	SOLID
CARBON-14	00022686	S10V002470	SOLID
CARBON-14	00022686	S10V002489	SOLID
CN - EDTA	00021785	S10V002448	SOLID
CN - EDTA	00021785	S10V002467	SOLID
CN - EDTA	00021785	S10V002486	SOLID
CN - EDTA	00022013	S10V002410	SOLID
CN - EDTA	00022013	S10V002429	SOLID
CN - EDTA	00022014	S10V002280	SOLID
CN - EDTA	00022014	S10V002309	SOLID
CN - EDTA	00022014	S10V002338	SOLID
CN - EDTA	00022014	S10V002391	SOLID
CN - WATER DIST.	00021829	S10V002652	LIQUID
GEA	00022049	S10V002281	SOLID
GEA	00022049	S10V002310	SOLID
GEA	00022049	S10V002341	SOLID
GEA	00022049	S10V002392	SOLID
GEA	00022049	S10V002411	SOLID
GEA	00022049	S10V002430	SOLID
GEA	00022049	S10V002449	SOLID
GEA	00022049	S10V002468	SOLID
GEA	00022049	S10V002487	SOLID
GEA	00022052	S10V002649	LIQUID

METHOD	BATCH	SAMPLE	MATRIX
HG	00021668	S10V002280	SOLID
HG	00021668	S10V002309	SOLID
HG	00021668	S10V002338	SOLID
HG	00021668	S10V002391	SOLID
HG	00021668	S10V002410	SOLID
HG	00021668	S10V002429	SOLID
HG	00021668	S10V002448	SOLID
HG	00022200	S10V002467	SOLID
HG	00022200	S10V002486	SOLID
HG	00022278	S10V002647	LIQUID
IC - ANIONS	00021524	S10V002650	LIQUID
IC - ANIONS	00022189	S10V002286	SOLID
IC - ANIONS	00022189	S10V002351	SOLID
IC - ANIONS	00022189	S10V002397	SOLID
IC - ANIONS	00022189	S10V002416	SOLID
IC - ANIONS	00022189	S10V002435	SOLID
IC - ANIONS	00022189	S10V002454	SOLID
IC - ANIONS	00022189	S10V002473	SOLID
IC - ANIONS	00022897	S10V002315	SOLID
IC - ANIONS	00022897	S10V002492	SOLID
IC - NH4	00021436	S10V002290	SOLID
IC - NH4	00021436	S10V002317	SOLID
IC - NH4	00021540	S10V002353	SOLID
IC - NH4	00021540	S10V002399	SOLID
IC - NH4	00021540	S10V002418	SOLID
IC - NH4	00021540	S10V002437	SOLID
IC - NH4	00021540	S10V002653	LIQUID
IC - NH4	00021732	S10V002456	SOLID
IC - NH4	00021732	S10V002475	SOLID
IC - NH4	00021784	S10V002494	SOLID
ICP/AES Metals	00022570	S10V002647	LIQUID
ICP/AES Metals	00024239	S10V002288	SOLID
ICP/AES Metals	00024239	S10V002316	SOLID
ICP/AES Metals	00024239	S10V002352	SOLID
ICP/AES Metals	00024239	S10V002398	SOLID
ICP/AES Metals	00024239	S10V002417	SOLID
ICP/AES Metals	00024239	S10V002436	SOLID
ICP/AES Metals	00024239	S10V002455	SOLID
ICP/AES Metals	00024239	S10V002474	SOLID
ICP/AES Metals	00024239	S10V002493	SOLID
IODINE-129	00022139	S10V002648	LIQUID
IODINE-129 in SOIL	00023600	S10V002281	SOLID
IODINE-129 in SOIL	00023600	S10V002310	SOLID
IODINE-129 in SOIL	00023602	S10V002341	SOLID
IODINE-129 in SOIL	00023602	S10V002392	SOLID
IODINE-129 in SOIL	00023602	S10V002411	SOLID
IODINE-129 in SOIL	00023602	S10V002430	SOLID
IODINE-129 in SOIL	00023602	S10V002449	SOLID
IODINE-129 in SOIL	00023602	S10V002468	SOLID
IODINE-129 in SOIL	00023602	S10V002487	SOLID
ICP/MS ACTINIDES	00023864	S10V002288	SOLID
ICP/MS ACTINIDES	00023864	S10V002316	SOLID
ICP/MS ACTINIDES	00023864	S10V002352	SOLID
ICP/MS ACTINIDES	00023864	S10V002398	SOLID
ICP/MS ACTINIDES	00023864	S10V002417	SOLID
ICP/MS ACTINIDES	00023864	S10V002436	SOLID
ICP/MS ACTINIDES	00023864	S10V002455	SOLID
ICP/MS ACTINIDES	00023864	S10V002474	SOLID
ICP/MS ACTINIDES	00023864	S10V002493	SOLID
ICP/MS ACTINIDES	00024022	S10V002647	LIQUID

METHOD	BATCH	SAMPLE	MATRIX
IC/MS Tc-99, Sn-126	00023853	S10V002291	SOLID
IC/MS Tc-99, Sn-126	00023853	S10V002318	SOLID
IC/MS Tc-99, Sn-126	00023853	S10V002354	SOLID
IC/MS Tc-99, Sn-126	00023853	S10V002400	SOLID
IC/MS Tc-99, Sn-126	00023853	S10V002419	SOLID
IC/MS Tc-99, Sn-126	00023853	S10V002438	SOLID
IC/MS Tc-99, Sn-126	00023853	S10V002457	SOLID
IC/MS Tc-99, Sn-126	00023853	S10V002476	SOLID
IC/MS Tc-99, Sn-126	00023853	S10V002495	SOLID
IC/MS Tc-99, Sn-126	00024429	S10V002647	LIQUID
ICPMS Metals	00022376	S10V002284	SOLID
ICPMS Metals	00022376	S10V002313	SOLID
ICPMS Metals	00022376	S10V002347	SOLID
ICPMS Metals	00022376	S10V002395	SOLID
ICPMS Metals	00022376	S10V002414	SOLID
ICPMS Metals	00022376	S10V002433	SOLID
ICPMS Metals	00022376	S10V002452	SOLID
ICPMS Metals	00022376	S10V002471	SOLID
ICPMS Metals	00022376	S10V002490	SOLID
ICPMS Metals	00024036	S10V002352	SOLID
ICPMS Metals	00024036	S10V002398	SOLID
ICPMS Metals	00024036	S10V002417	SOLID
ICPMS Metals	00024036	S10V002436	SOLID
ICPMS Metals	00024036	S10V002455	SOLID
ICPMS Metals	00024036	S10V002493	SOLID
ICP/MS TC-99	00023162	S10V002282	SOLID
ICP/MS TC-99	00023162	S10V002311	SOLID
ICP/MS TC-99	00023162	S10V002343	SOLID
ICP/MS TC-99	00023162	S10V002393	SOLID
ICP/MS TC-99	00023162	S10V002412	SOLID
ICP/MS TC-99	00023162	S10V002431	SOLID
ICP/MS TC-99	00023162	S10V002450	SOLID
ICP/MS TC-99	00023162	S10V002469	SOLID
ICP/MS TC-99	00023162	S10V002488	SOLID
NICKEL-63	00023251	S10V002649	LIQUID
NICKEL-63	00023911	S10V002303	SOLID
NICKEL-63	00023911	S10V002325	SOLID
NICKEL-63	00023911	S10V002357	SOLID
NICKEL-63	00023911	S10V002403	SOLID
NICKEL-63	00023911	S10V002422	SOLID
NICKEL-63	00023911	S10V002441	SOLID
NICKEL-63	00023911	S10V002460	SOLID
NICKEL-63	00023911	S10V002479	SOLID
NICKEL-63	00023911	S10V002498	SOLID
PH LIQUID	00021500	S10V002650	LIQUID
PH SOLID	00021602	S10V002309	SOLID
PH SOLID	00021602	S10V002338	SOLID
PH SOLID	00021602	S10V002410	SOLID
PH SOLID	00021602	S10V002429	SOLID
PH SOLID	00021602	S10V002448	SOLID
PH SOLID	00021602	S10V002467	SOLID
PH SOLID	00022336	S10V002280	SOLID
PH SOLID	00022336	S10V002391	SOLID
PH SOLID	00022336	S10V002486	SOLID

METHOD	BATCH	SAMPLE	MATRIX
PLUTONIUM	00022778	S10V002649	LIQUID
PLUTONIUM	00023878	S10V002294	SOLID
PLUTONIUM	00023878	S10V002323	SOLID
PLUTONIUM	00023878	S10V002355	SOLID
PLUTONIUM	00023878	S10V002401	SOLID
PLUTONIUM	00023878	S10V002420	SOLID
PLUTONIUM	00023878	S10V002439	SOLID
PLUTONIUM	00023878	S10V002458	SOLID
PLUTONIUM	00023878	S10V002477	SOLID
PLUTONIUM	00023878	S10V002496	SOLID
SELENIUM-79	00022655	S10V002649	LIQUID
SELENIUM-79	00023910	S10V002303	SOLID
SELENIUM-79	00023910	S10V002325	SOLID
SELENIUM-79	00023910	S10V002357	SOLID
SELENIUM-79	00023910	S10V002403	SOLID
SELENIUM-79	00023910	S10V002422	SOLID
SELENIUM-79	00023910	S10V002441	SOLID
SELENIUM-79	00023910	S10V002460	SOLID
SELENIUM-79	00023910	S10V002479	SOLID
SELENIUM-79	00023910	S10V002498	SOLID
SR-90 ENV LIQUID	00022646	S10V002649	LIQUID
STRONTIUM-90	00023880	S10V002301	SOLID
STRONTIUM-90	00023880	S10V002324	SOLID
STRONTIUM-90	00023880	S10V002356	SOLID
STRONTIUM-90	00023880	S10V002402	SOLID
STRONTIUM-90	00023880	S10V002421	SOLID
STRONTIUM-90	00023880	S10V002440	SOLID
STRONTIUM-90	00023880	S10V002459	SOLID
STRONTIUM-90	00023880	S10V002478	SOLID
STRONTIUM-90	00023880	S10V002497	SOLID
SULFIDE	00021465	S10V002280	SOLID
SULFIDE	00021465	S10V002309	SOLID
SULFIDE	00021465	S10V002338	SOLID
SULFIDE	00021465	S10V002391	SOLID
SULFIDE	00021529	S10V002410	SOLID
SULFIDE	00021529	S10V002429	SOLID
SULFIDE	00021530	S10V002651	LIQUID
SULFIDE	00021697	S10V002448	SOLID
SULFIDE	00021697	S10V002467	SOLID
SULFIDE	00021779	S10V002486	SOLID
SVOA 222S #2	00021694	S10V002415	SOLID
SVOA 222S #2	00021694	S10V002434	SOLID
SVOA 222S #2	00021694	S10V002453	SOLID
SVOA 222S #2	00021694	S10V002472	SOLID
SVOA 222S #2	00021831	S10V002646	LIQUID
SVOA 222S #2	00022129	S10V002285	SOLID
SVOA 222S #2	00022129	S10V002314	SOLID
SVOA 222S #2	00022129	S10V002349	SOLID
SVOA 222S #2	00022129	S10V002396	SOLID
SVOA 222S #2	00022254	S10V002491	SOLID
TRITIUM	00022818	S10V002648	LIQUID
TRITIUM	00023378	S10V002283	SOLID
TRITIUM	00023378	S10V002312	SOLID
TRITIUM	00023378	S10V002345	SOLID
TRITIUM	00023378	S10V002394	SOLID
TRITIUM	00023378	S10V002413	SOLID
TRITIUM	00023378	S10V002432	SOLID
TRITIUM	00023378	S10V002451	SOLID
TRITIUM	00023378	S10V002470	SOLID
TRITIUM	00023378	S10V002489	SOLID

METHOD	BATCH	SAMPLE	MATRIX
VOA 222S #2	00021533	S10V002273	SOLID
VOA 222S #2	00021533	S10V002306	SOLID
VOA 222S #2	00021533	S10V002327	SOLID
VOA 222S #2	00021533	S10V002358	SOLID
VOA 222S #2	00021533	S10V002404	SOLID
VOA 222S #2	00021533	S10V002423	SOLID
VOA 222S #2	00021533	S10V002442	SOLID
VOA 222S #2	00021533	S10V002461	SOLID
VOA 222S #2	00021601	S10V002241	LIQUID
VOA 222S #2	00021601	S10V002242	LIQUID
VOA 222S #2	00021601	S10V002243	LIQUID
VOA 222S #2	00021601	S10V002244	LIQUID
VOA 222S #2	00021601	S10V002251	LIQUID
VOA 222S #2	00021601	S10V002252	LIQUID
VOA 222S #2	00021716	S10V002245	LIQUID
VOA 222S #2	00021716	S10V002246	LIQUID
VOA 222S #2	00021716	S10V002247	LIQUID
VOA 222S #2	00021716	S10V002248	LIQUID
VOA 222S #2	00021716	S10V002253	LIQUID
VOA 222S #2	00021716	S10V002254	LIQUID
VOA 222S #2	00021716	S10V002255	LIQUID
VOA 222S #2	00021718	S10V002249	LIQUID
VOA 222S #2	00021718	S10V002256	LIQUID
VOA 222S #2	00021719	S10V002480	SOLID
VOA 222S #2	00023317	S10V002645	LIQUID

Attachment 7

GEOLOGICAL REPORT WITH BULK DENSITY RESULTS

C7682 Bulk Density Result

Core Number	Customer Sample ID	Sample Depth	Lab Sample ID	Analyte	Unit	Result
C7682	B26C51A	12-14	S10V002387	Bulk Density	g/mL	1.98
C7682	B26C51B	12-14	S10V002388	Bulk Density	g/mL	2.14
C7682	B26C51C	12-14	S10V002389	Bulk Density	g/mL	2.03
C7682	B26C53A	14-16	S10V002407	Bulk Density	g/mL	1.88
C7682	B26C55A	18-20	S10V002426	Bulk Density	g/mL	2.20
C7682	B26C55B	18-20	S10V002427	Bulk Density	g/mL	1.97
C7682	B26C55C	18-20	S10V002428	Bulk Density	g/mL	1.90
C7682	B26C57B	45-47	S10V002446	Bulk Density	g/mL	2.03
C7682	B26C57C	45-47	S10V002447	Bulk Density	g/mL	1.89
C7682	B26C59A	88-90	S10V002464	Bulk Density	g/mL	1.91
C7682	B26C59B	88-90	S10V002465	Bulk Density	g/mL	1.93
C7682	B26C59C	88-90	S10V002466	Bulk Density	g/mL	1.90
C7682	B26C61A	122-124	S10V002483	Bulk Density	g/mL	1.99
C7682	B26C61B	122-124	S10V002484	Bulk Density	g/mL	2.11

Sample ID	Laboratory ID	Date examined	Description
B26JL0-surface	S10V002280	08-19-2010	sM sandy mud, dry, trace gravel, trace clay. Sample is mostly fine to very fine grained sand and silt. Largest piece 18mm. Uniform color and texture. Some clasts, easily broken, very slightly cohesive, trace mica. Color: 2.5Y6/2 Acid reactivity: Vigorous.
B26JL1-surface dup	S10V002309	08-19-2010	sM sandy mud, very slightly moist, trace gravel, trace clay. Sample is mostly fine to very fine sand and silt. Largest piece 10mm. Uniform color and texture. Some clasts, easily broken, trace mica. Color: 2.5Y5/2 Acid reactivity: Vigorous.
B26C47-A 5' - 7'	S10V002333	08-19-2010	Core has shrunk from walls on top, 22mm gap at bottom. sM sandy mud, slightly moist, fine grained sand and silt with minor clay, no gravel, largest grains <0.5mm, slightly cohesive, uniform color and texture, trace mica. Color: 2.5Y4/2 Acid reactivity: Vigorous.
B26C47-B 5' - 7'	S10V002335	08-19-2010	10mm gap at top, bottom is full but loose. Core slides out of tube. mS muddy sand, very slightly moist, mix of fine sand and silt, very slightly cohesive, very friable, minor clay, largest grains 0.5mm, sand is mostly fine to very fine grained, uniform color and texture, trace mica. Color: 2.5Y4/3 Acid reactivity: Very slight.
B26C47-C 5' - 7'	S10V002336	08-19-2010	2mm gap at top with some shrinkage from walls, irregular gap at bottom, about 2mm, soil slides out easily. mS muddy sand, slightly moist, vaguely cohesive, very friable. Fine to very fine sand and silt, trace clay, uniform color and texture, Largest grains <0.5mm, trace mica. Color: 2.5Y4/3 Acid reactivity: Slight.
B26C51-A 12' - 14'	S10V002387	08-19-2010	Tube is full. (m)S slightly muddy sand, very slightly moist, medium grained sand with trace gravel and minor silt, no clay. Largest piece 18mm. Non cohesive, salt and pepper

			texture, angular to sub-angular, trace mica. Color: 2.5Y4/2 Acid reactivity: Moderate.
B26C51-B 12' - 14'	S10V002388	08-19-2010	Tube is full. (m)S slightly muddy sand, slightly moist, medium to fine grained sand with minor silt, no gravel. Largest piece 4mm. Sand became finer grained toward the top of tube. Very slightly cohesive, but friable. Coarsest grains are angular to sub-rounded, trace mica. Color: 2.5Y 4/3 Acid reactivity: Moderate.
B26C51-C 12' - 14'	S10V002389	08-19-2010	Tube is full, slight 1mm bulge at top. mS muddy sand, slightly moist. Sand is mostly fine to very fine grained, trace medium grained, minor silt, no clay, trace mica. Uniform color and texture. Coarsest piece 1mm. Color: 2.5Y4/2 Acid reactivity: Moderate.
B26C51-shoe 12' - 14'	S10V002390	08-19-2010	(m)S slightly muddy sand, very slightly moist, poorly sorted, coarse to very fine sand with minor silt, no clay. Slight salt and pepper texture. Largest piece 1mm, trace mica. Color: 2.5Y4/3 Acid reactivity: Moderate.
B26C53-A 14' - 16'	S10V002407	08-23-2010	Tube is full. (m)S slightly muddy sand, slightly moist, moderately well sorted, very fine to fine grained with silt. Uniform color and texture, largest piece is about 1mm, angular to sub-angular, slight salt and pepper texture, trace mica. Color: 2.5Y4/3 Acid reactivity: Slight to moderate.
B26C53-B 14' - 16'	S10V002408	08-23-2010	Slight irregular depression on bottom 3mm deep. (m)S slightly muddy sand Fairly well sorted, very fine to fine grained sand with silt. Largest piece about 2mm, sub-angular to angular, slight salt and pepper texture, trace mica, uniform color and texture. Color: 2.5Y4/2 Acid reactivity: Slight to moderate.
B26C53-C 14' - 16'	S10V002409	08-23-2010	Slight irregular depression on bottom 3mm deep. (m)S slightly muddy sand, slightly moist, very fine to fine grained with silt, slightly finer than tubes A and B. Uniform color and

			texture. Largest piece 8mm, angular to sub-angular, trace mica. Non cohesive as were tube A and B. Color: 2.5Y4/3 Acid reactivity: Moderate.
B26C55-A 18' - 20'	S10V002426	08-23-2010	Tube is full, free moisture and mud in top of tube. S sand, for first 50mm from bottom M mud for remaining 100mm, moist. Sand is fairly well sorted, medium grained, largest piece 2mm, salt and pepper texture, trace silt and clay, trace mica. Mud is mix of silt and clay, uniform cohesive, non plastic, trace sand. Color sand, 2.5Y4/2 Color mud, 2.5Y4/4 Acid reactivity sand, slight. Acid reactivity mud, slight to moderate.
B26C55-B 18' - 20'	S10V002427	08-23-2010	Tube is full, free moisture in bottom cap. Bottom 30mm is M, mud grades to mS muddy sand toward top. Slightly moist. Mud has uniform color and texture, slightly cohesive, trace sand, same color as sand, trace mica. Sand is very fine grained with silt, largest grains <0.5mm. Sample mixed for soil color and acid test. Color: 2.5Y5/3 Acid reactivity: Moderate. Transition between clay and Sand is gradual.
B26C55-C 18' - 20'	S10V002428	08-23-2010	Tube is full. mS muddy sand, slightly moist, fine to very fine sand with abundant silt, cohesive, largest piece <0.5mm, slightly more clay rich in bottom 50mm of tube, no obvious boundary, trace mica, mud is mostly silt. Color: 2.5Y4/3 Acid reactivity: Moderate to vigorous.
B26C57-A 45' - 47'	S10V002445	08-24-2010	Tube bulging 4mm on top, thin layer coarse sand at bottom. sM sandy mud moist, largest piece is 7mm in bottom of sand layer. Bulk of sample is sandy mud with clay rich lenses, but mostly silt and sand, cohesive, slight plasticity in clay lenses. Trace mica. Color: 2.5Y4/3 Acid reactivity: Slight to moderate.
B26C57-B 45' - 47'	S10V002446	08-24-2010	Tube is full. First 50mm from bottom sM sandy mud similar to tub A,

			remainder of tube (m)S slightly muddy sand, slightly moist, poorly sorted sand and silt, non cohesive, salt and pepper texture, largest piece 4mm, trace fine gravel, sub-angular to sub-rounded, trace mica. Color:2.5Y 5/1 Acid reactivity: Slight to moderate.
B26C57-C 45' - 47'	S10V002447	08-24-2010	Tube is full. S sand, very slightly moist, largest piece 2mm, angular to sub-angular, salt and pepper texture, moderately well sorted, medium grained sand, no mud, no gravel, trace mica. Color: 2.5Y5/2 Acid reactivity: Skipped.
B26C59-A 88' - 90'	S10V002464	08-24-2010	Tube is full. (m)S slightly muddy sand, very slightly moist, fine grained sand with silt, no clay, no gravel, trace coarsest grains medium sand, very slightly cohesive, largest grains ~1mm, trace mica. Color: 2.5Y6/3 Acid reactivity: Moderate.
B26C59-B 88' - 90'	S10V002465	08-24-2010	Tube is full. (m)S slightly muddy sand, very slightly moist, fine sand to silt, trace material coarser than medium sand. Largest particle 9mm. Very slightly cohesive, moderately well sorted, few larger pieces visible sub-rounded to round, uniform color and texture. Trace mica. Color: 2.5Y 6/3 Acid reactivity: Moderate.
B26C59-C 88' - 90'	S10V002466	08-24-2010	Tube is full. (m)S slightly muddy sand, very slightly moist, fine sand and silt, no clay, no gravel, trace medium and coarse grained sand, largest grains ~1mm, moderately well sorted, uniform color and texture, trace mica. Color: 2.5Y6/2 Acid reactivity: Slight to moderate.
B26C61-A 122' - 124'	S10V002483	08-27-2010	Tube is full. (m)S slightly muddy sand, very slightly moist, poorly sorted with minor mud, trace gravel, largest piece 10mm (excluded). Dominant sand size medium to fine grained, coarsest grains are angular to sub-angular, mud is silt, soil is slightly cohesive, very friable, trace mica. Color: 2.5Y5/3 Acid reactivity:

			Slight.
B26C61-B 122' - 124'	S10V002484	08-27-2010	Tube is full. S sand, very slightly moist, poorly sorted with trace silt and gravel. Largest piece 14mm, sub-angular to sub-rounded, slight salt and pepper texture, non cohesive, majority of sand is medium to fine grained, trace mica. Color: 2.5Y5/2 Acid reactivity: Slight to moderate.
B26C61-C 122' - 124'	S10V002485	08-27-2010	Irregular depression in bottom of tube,3mm deep. (m)S slightly muddy sand, very slightly moist. Largest piece 13mm. Poorly sorted, sub-angular to sub-rounded, predominantly medium to fine grained, minor silt, trace gravel, very slightly cohesive, trace mica. Color: 2.5Y5/3 Acid reactivity: Moderate.

C Farm 2010-2, C7682 Photographic Log and Scanned Geologic Descriptions 10/12/2010

Figure A-1 Sample B26JLO (Surface Sample)

Figure A-2 Sample B26JL1 (Surface Sample Duplicate)

Figure A-3 Sample B26C47 CORE A (5'-7')

Figure A-4 Sample B26C47 CORE B (5'-7')

Figure A-5 Sample B26C47 CORE C (5'-7')

Figure A-6 Sample B26C51 SHOE (12'-14')

Figure A-7 Sample B26C51 CORE A (12'-14')

Figure A-8 Sample B26C51 CORE B (12'-14')

Figure A-9 Sample B26C51 CORE C (12'-14')

Figure A-10 Sample B26C53 CORE A (14'-16')

Figure A-11 Sample B26C53 CORE B (14'-16')

Figure A-12 Sample B26C53 CORE C (14'-16')

Figure A-13 Sample B26C55 CORE A (18'-20')

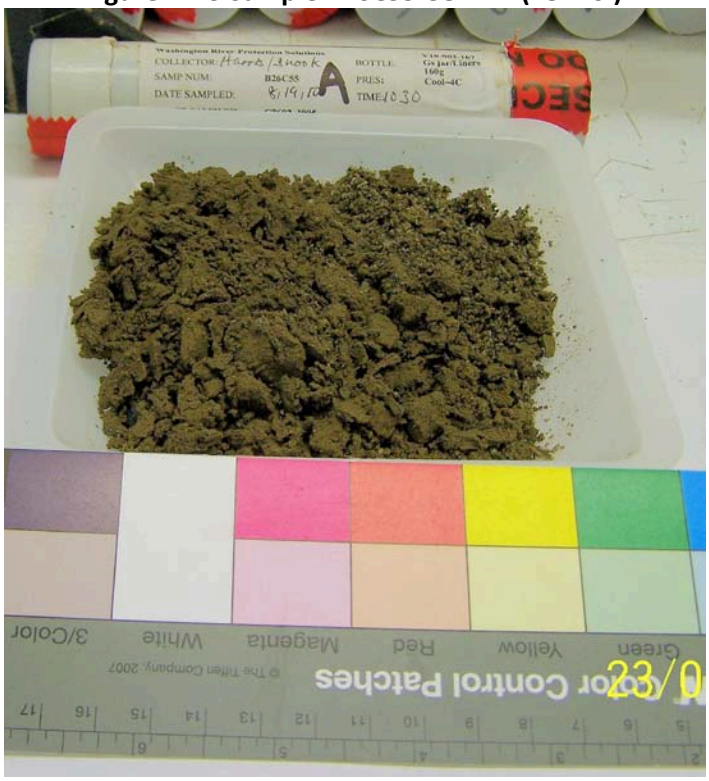

Figure A-14 Sample B26C55 CORE B (18'-20')

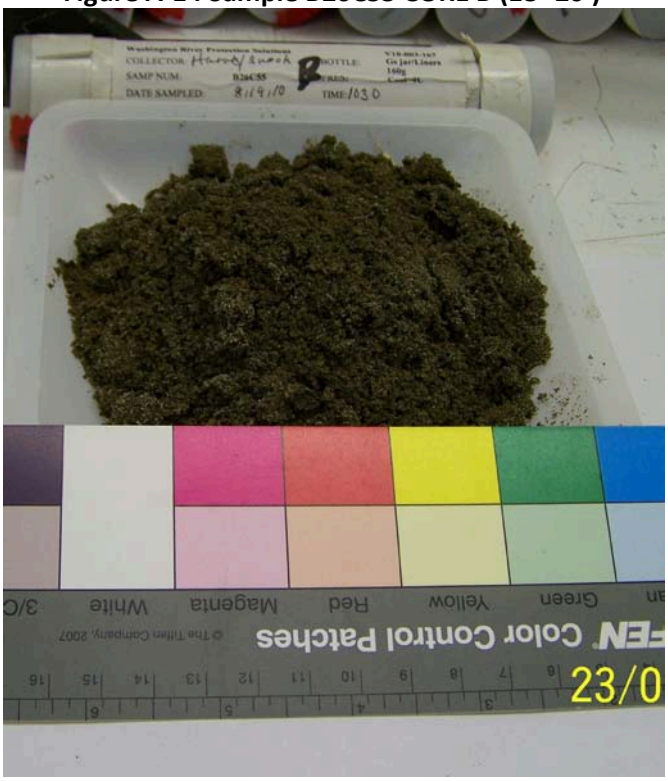

Figure A-15 Sample B26C55 CORE C (18'-20')

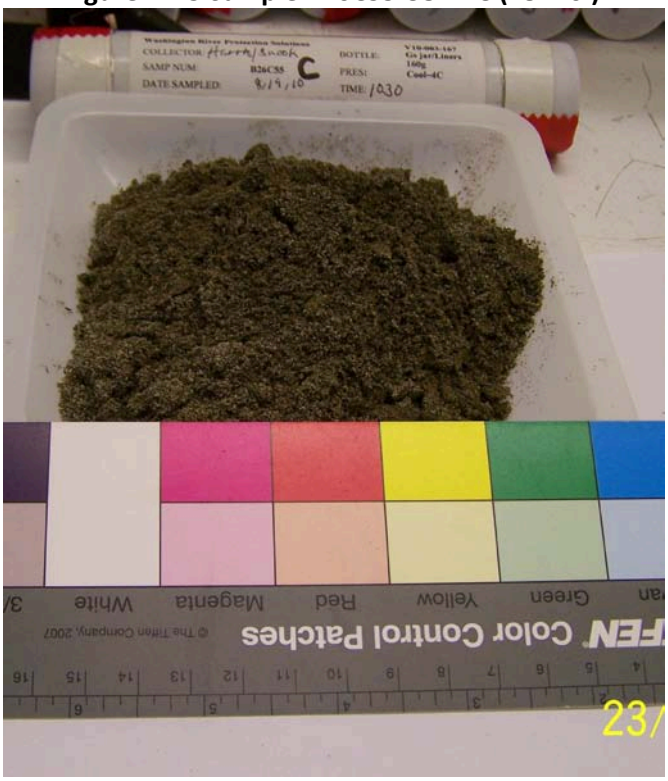

Figure A-16 Sample B26C57 CORE A (45'-47')

Figure A-17 Sample B26C57 CORE B (45'-47')

Figure A-18 Sample B26C57 CORE C (45'-47')

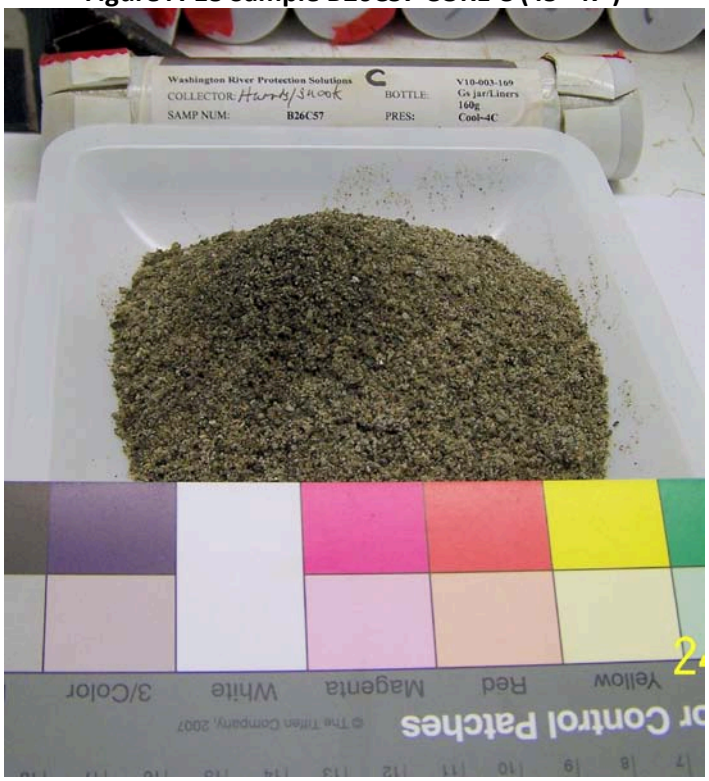

Figure A-19 Sample B26C59 CORE A (88'-90')

Figure A-20 Sample B26C59 CORE B (88'-90')

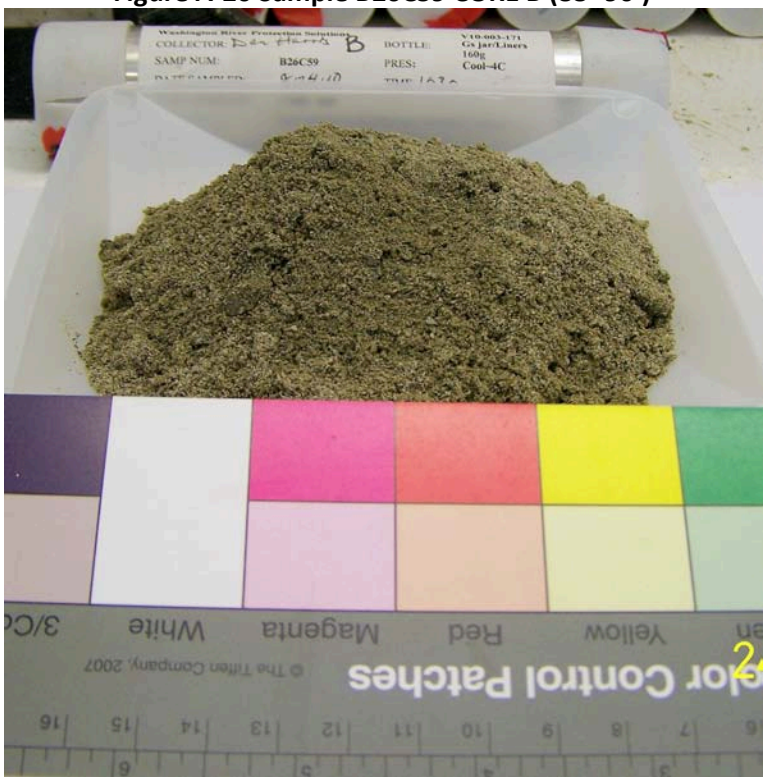

Figure A-21 Sample B26C59 CORE C (88'-90')

Figure A-22 Sample B26C61 CORE A (122'-124')

Figure A-23 Sample B26C61 CORE B (122'-124')

Figure A-24 Sample B26C61 CORE C (122'-124')

Attachment 8

CHARACTERIZATION CHANGE NOTICES
AND CORRESPONDENCE

VADOSE ZONE
CHARACTERIZATION CHANGE NOTICE

Document: RPP-PLAN-40564 Rev 2 **Change Number:** WMAC-0012 **ECN to TSAP Required?** Y / N

Requestor: Andrew M. Templeton **Date:** 9-27-10

Original Requirement: At each sample depth, three (3) liner samples and one (1) shoe sample are targeted to be taken. Good recovery is required to perform all of the requested analyses.

Samples Impacted: Samples collected in C Farm at site I, location 7682, 10-12 ft. bgs.

Proposed Change:

Due to poor sample recovery from the 10-12 ft. bgs (100% in shoe, 0% in Liner A, 0% in Liner B and 0% in Liner C), an additional sample was collected from 12-14 ft. bgs. (100% in shoe, 100% in Liner A, 100% in Liner B and 100% in Liner C)

To ensure that we have enough material to do all the analyses, a composite will be prepared from and the shoe, Liner A, Liner B and Liner C from the 12-14 ft. bgs interval.

The samples for volatile organic compound (VOC) analysis were collected from the shoe at the 10-12 ft. bgs interval.

Reason for Change: Poor sample recovery.

Date Change Effective: 8-18-10

Schedule Impact: None

Authorization:

Vadose Zone POC (Print/Sign): A.M. Templeton **Date:** 11-28-10

Vadose Zone Quality Assurance (Print/Sign): K.J. Dunbar **Date:** 11-29-10

222-S Project Coordinator (Print/Sign): S.G. Mckinney **Date:** 12-9-10

ATL Project Coordinator (Print/Sign): G.P. Ritenour **Date:** 1-18-10

Vadose Lab Interface Lead (Print/Sign): HL Anastos **Date:** 12-3-10

cc: S. J. Eberlein, K. M. Hall, Dana Stewart, Dave Myers, Penny Berlin, Eric Wyse, Mike Connelly, Harold Sydnor, Cindy Tabor

Ritenour, Gerald P

From: McKinney, Steve G
Sent: Wednesday, July 07, 2010 12:10 PM
To: Tabor, Cynthia L
Cc: Templeton, Andrew M; Ritenour, Gerald P; Berlin, Penelope C
Subject: FW: Confirming our Telephone Conversation

From: McKinney, Steve G
Sent: Wednesday, February 18, 2009 9:11 AM
To: Hansen, Daniel R; Baker, Harold L
Cc: Ritenour, Gerald P
Subject: FW: Confirming our Telephone Conversation

We will still have the secondary's in omni, just not reported in the HEISS upload if they are a less than....

From: Connelly, Michael
Sent: Wednesday, February 18, 2009 9:08 AM
To: McKinney, Steve G
Subject: FW: Confirming our Telephone Conversation

From: Barnes, Michael (ECY) [mailto:miba461@ecy.wa.gov]
Sent: Tuesday, February 17, 2009 2:31 PM
To: Connelly, Michael
Subject: RE: Confirming our Telephone Conversation

Both are correct…….

Mike

From: Connelly, Michael [mailto:Michael_Connelly@RL.gov]
Sent: Tuesday, February 17, 2009 2:21 PM
To: Barnes, Michael (ECY)
Subject: Confirming our Telephone Conversation

Mike

I just want to confirm our discussion earlier today

1) With regard to secondary constituents/compounds, they will only be reported if the results are above detection limits.
2) With regard to methanol, because this is analyte is often found due to laboratory contamination, it will be dropped from the analysis

Let me know if this is the correct or if you need me to say something else.

From: Templeton, Andrew M
Sent: Thursday, August 26, 2010 3:00 PM
To: Eberlein, Susan J; Dunbar, Kathryn J
Cc: Tabor, Cynthia L; Sydnor, Harold A; McKinney, Steve G; Stewart, Dana
Subject: FW: Equipment rinsate sample issue

Please see the e-mail below from Steve. Kathy and I have discussed this and Kathy agrees that we can write a CCN documenting what occurred and indicate the analysis that will not be performed. At this point we will be lacking QC samples on the pesticide analysis and there is no subsample for monobutyl/dibutyl phosphate analysis.

Steve is going to check to see if they (Test America) has enough extra water to do the may have monobutyl/dibutyl phosphate analysis.

There are no plans to re-take the equipment blank.

Please let me know if you have any questions or concerns.

Thanks

Andrew

From: McKinney, Steve G
Sent: Thursday, August 26, 2010 1:15 PM
To: Templeton, Andrew M
Subject: Equipment rinsate sample issue

There is an issue with the C Farm equipment rinsate sample received at the lab last Monday. One of the three 1 – L samples for PCB analysis, 1 of the two 1-L samples for pesticides and the monobuty/dibuty phosphate sample froze and broke. The refrigerator is working - it would appear that there were too many samples in the fridge to allow proper air circulation, which caused the samples in the back row to freeze. Based on customer guidance, the remaining samples were shipped this morning.

Test America will use half the normal sample amount for the MS/MSD for PCB's so this analysis will not be impacted. There will not be enough sample to permit QC samples on the pesticide analysis and there is no subsample for monobutyl/dibutyl phosphate analysis.

Thanks.

CONFIDENTIALITY NOTICE: This e-mail communication, including any attachments, may contain privileged or confidential information for specific individuals and is protected by law. If you are not the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation.

Please consider the environment before printing this e-mail.

Ritenour, Gerald P

From: McKinney, Steve G
Sent: Monday, September 13, 2010 5:30 PM
To: Ritenour, Gerald P
Subject: FW: Equipment rinsate sample issue

For the data package – remember, ecology is asking for any/all email correspondence that alters/clarifies FSAP instruction….

Thanks.

From: Franks, Mike [mailto:Mike.Franks@testamericainc.com]
Sent: Monday, September 13, 2010 5:03 PM
To: McKinney, Steve G
Cc: Johnson, Jo M
Subject: RE: Equipment rinsate sample issue

Steve,

The sample volume for the rinsate sample was consumed during the prep of all the other analysis.
There is no additional sample volume to ship to SWRI for DBP/MBP analysis.

Sorry.

Mike

Mike Franks
PM Dept. Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

13715 Rider Trail North
St. Louis, MO 43045
314-298-8566|Fax: 314-298-8757
www.testamericainc.com

From: McKinney, Steve G [mailto:Steve_G_McKinney@RL.gov]
Sent: Thursday, August 26, 2010 5:04 PM
To: Franks, Mike
Cc: Johnson, Jo M
Subject: FW: Equipment rinsate sample issue

Hi Mike,

The promised email on the equipment rinsate. The program is ok with what we talked about earlier – half the volume for the PCB MS/MSD, and no QC for the pesticides. One thing I was wondering was if you might have 125 mL left from one of the other analyses to donate to the MBP/DBP cause..? If not, as you can see, they are ok with cancelling that analysis.

Please let me know.

Thanks.

Ritenour, Gerald P

From: Clauss, Scott A
Sent: Monday, September 20, 2010 8:39 AM
To: Ritenour, Gerald P
Cc: Duchsherer, Mark J
Subject: Missed hold time on equipment blank

JR,

The equipment blank S10V002645 in group 20100676 was run out of hold time by 4 days.

I discovered this when I cross checked my list with Tom's list. Only the equipment blank was not on my list. I was feeling pretty happy about not missing any C Farm hold times despite all the VOA issues. Then I found the equipment blank. It was run as soon as it was discovered.

To overuse and abuse a cliché, it was a perfect storm that made me miss the equipment blank.

- The equipment blank is on a separate group number. I monitor the C Farm groups in Sample Viewer daily, but because it has its own group I never looked at it.
- The SBD this group is on does not have the equipment blank group number on the title page, and I printed a version of it before the equipment blank page was inserted. So I didn't know to look for it.
- Not too sure about this, but I don't believe the sample appended to the end of the sample availability list. OMNILims may have inserted it into the middle of the list. All other C Farms appended to the end of this list as we received them, so that is where I look each morning. For a good example of this phenomenon look at how the PFP samples appear in sample availability. They are way up the list with samples that were received in July, but we just got them 2-3 weeks ago.
- One major problem with OMNILims and VOAs is there is no way to mark a sample as run. It stays on the sample availability list until it is uploaded. I have only a few samples to run, but sample availability lists over 60 liquids and Tom's work status shows over 100 samples.
- The last time I verified my list against Tom's list was the day the equipment blank came in.

Thanks,
Scott Clauss

From: Anastos, Heather L
To: Ritenour, Gerald P
Cc: Johnson, Jo M; McKinney, Steve G
Subject: RE: C Farm C7682 IC Sulfate RPD
Date: Tuesday, February 15, 2011 12:02:36 PM

It is acceptable.

Heather Anastos
Chemist, Closure & Corrective Measures
(509) 373-2616
1200 Jadwin/301

washington river protection solutions
contractor to the United States Department of Energy

From: Ritenour, Gerald P
Sent: Monday, February 14, 2011 2:46 PM
To: Anastos, Heather L
Cc: Johnson, Jo M; McKinney, Steve G
Subject: C Farm C7682 IC Sulfate RPD

Heather,

The QC sample for one the IC anions batches for the C7682 samples had a high RPD for sulfate at 34% exceeding the required ±30%. We would like to report this with a narrative indicating possible matrix non-homogeneity. Is that acceptable?

Thanks JR

Core Number	Customer Sample ID	Sample Depth	SAMPLE_R	ANALYTE	Units	LCS	BLANK	RESULT	Dup	RPD	MS	Det Limit	Q Flag
C7682	B26C61	122-124	S10V002492	Acetate	ug/g	98.8	<6.04E-03	0.159	0.137	15.4	94.0	0.0601	B
C7682	B26C61	122-124	S10V002492	Bromide	ug/g	101	<0.0580	<0.577	<0.574	n/a	97.0	0.577	U
C7682	B26C61	122-124	S10V002492	Chloride	ug/g	100	<9.98E-03	3.71	4.72	24.0	107	0.0993	
C7682	B26C61	122-124	S10V002492	Fluoride	ug/g	103	<1.61E-03	0.825	0.899	8.61	93.1	0.0160	
C7682	B26C61	122-124	S10V002492	Formate	ug/g	102	<4.67E-03	0.361	0.457	23.5	98.5	0.0465	B
C7682	B26C61	122-124	S10V002492	Glycolate	ug/g	101	<9.37E-03	<0.0933	<0.0928	n/a	97.3	0.0933	U
C7682	B26C61	122-124	S10V002492	Nitrate	ug/g	101	<0.0208	5.85	7.11	19.5	98.8	0.207	
C7682	B26C61	122-124	S10V002492	Nitrite	ug/g	100	0.0449	0.276	0.375	30.7	95.2	0.191	CB
C7682	B26C61	122-124	S10V002492	Oxalate	ug/g	101	<0.0231	0.739	1.40	61.9	96.6	0.230	B
C7682	B26C61	122-124	S10V002492	Phosphate	ug/g	101	<0.0167	0.460	0.366	22.9	77.6	0.166	B
C7682	**B26C61**	**122-124**	**S10V002492**	**Sulfate**	**ug/g**	**102**	**<0.0187**	**61.6**	**86.8**	**34.0**	**117**	**0.186**	**M**

ATL Analytical Operations
Advanced Technologies and Laboratories International, Inc.
Contractor to the Office of River Protection
U.S. Department of Energy
Currently at 509-375-4200, Ext 247

From: Anastos, Heather L
To: Ritenour, Gerald P
Cc: McKinney, Steve G; Johnson, Jo M
Subject: RE: Missing QC for C7682
Date: Tuesday, February 15, 2011 12:18:05 PM

We are accepting this data for C7682, but please ensure that the laboratory provides QC for each core in the future.

Heather Anastos
Chemist, Closure & Corrective Measures
(509) 373-2616
1200 Jadwin/301

washington river protection solutions

contractor to the United States Department of Energy

From: Ritenour, Gerald P
Sent: Tuesday, February 15, 2011 12:16 PM
To: Anastos, Heather L
Cc: McKinney, Steve G; Johnson, Jo M
Subject: Missing QC for C7682

ICP/MS Tc-99, Sn-126, Batch 23853: There were no notable issues with this batch, and all QC requirements in the QAPP were met. However the laboratory failed to include MS and duplicate QC samples from core hole C7682. This fails to meet QC requirements in the SAP and FSAP, since all of this core's solid samples were in this batch. The batch did include MS and duplicate QC samples for another C Farm core, C7676, whose recoveries and RPDs meet the SAP and FSAP requirements. The laboratory is proposing to report this data and the associated QC samples from C7676 in a separate attachment. Is this acceptable?
Thanks, JR

Gerald "JR" Ritenour
Project Manager
ATL Analytical Operations
Advanced Technologies and Laboratories International, Inc.
Contractor to the Office of River Protection
U.S. Department of Energy
(509) 372-2742 office
(509) 438-8837 cell
gerald_p_ritenour@rl.gov

Attachment 9

RECEIPT PAPERWORK

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev 66.0

Date Samples Received: 8-23-10 Group #: 20100677

Number of Samples: 1(Set) C-Farm Equipment Blank

Sample Custodian: [illegible]

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete	✓		on file
Check that outer custody seal is intact, if present	✓		
Record cooler temperature in centigrade, as appropriate	1°C		☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling			
• Sampling location or origin			
• Container type, size, and number			
• Analysis request is clear			
• Signature of persons relinquishing and receiving samples			
• Date and/or time of sample custody exchange			
Verify that sample numbers on containers match the COC and/or RSA			
Samples stored properly (e.g., refrigeration)	✓		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials DPR Date 8-23-2010

If No, comment on communication and resolution:

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-165	PAGE 1 OF 3

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Ekstrom / Harris	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 Equipment Blank	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFV2-10-000004	N/A	N/A	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C	HCl or H2SO4 to pH <2/Cool~4C	Cool~6C	Cool~4C	Cool~6C	HCl to pH <2/Cool~6C	Cool~6C	Cool~6C	Cool~6C	HNO3 to pH <2
HOLDING TIME	ASAP	14 Days	14 Days	7/40 Days	14/40 Days	14 Days	14 Days	14/40 Days	None	28 Days
TYPE OF CONTAINER	G/P	aGs*	Gs*	aG	aG	aGs*	G/P	aG	aG	G/P
NO. OF CONTAINER(S)	1	3	3	1	1	3	1	2	3	1
VOLUME	500mL	40mL	40mL	1000mL	1000mL	40mL	125mL	1000mL	1000mL	500mL
SAMPLE ANALYSIS	pH (Water) - 9040 (TF); IC Anions - 9056;	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Ethylene glycol - 8015B;	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	TPH-Diesel Range - WTPH-D;	TPH-Gasoline Range - WTPH-G;	MBP/DBP - 9056 (modified);	Pesticides - 8081 (TF);	PCBs - 8082;	SEE ITEM (3) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B26PF9	WATER	8/23/10	0045	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
				SDVOD 2650	2645	2654	2646	2658	2655	2659	2657	2656	2647

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris 8-23-10	1110	RASteele RASteele	8.23.10 1110
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

SDGs
20100676 - 2225
20100677 - Offsite

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-165	PAGE 2 OF 3
COLLECTOR Ekstrom / Harris	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 7P	**DATA TURNAROUND**
SAMPLING LOCATION C7682 Equipment Blank	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC Sampling		**SAF NO.** V10-002	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO. TFVS-09-	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** N/A	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

SPECIAL INSTRUCTIONS

(1) VOA - 8260 (TCL) (TF) {(m+p)-Xylene, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethene, 1,2-Dichloroethane, 1-Butanol, 2-Butanone, 2-Nitropropane, 4-Methyl-2-pentanone, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, cis-1,2-Dichloroethylene, Diethyl ether, Ethyl acetate, Ethylbenzene, Isobutyl alcohol, Methanol, Methylene chloride, o-Xylene, Tetrachloroethene, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total)};
(2) Semi-VOA - 8270 Complete (TF) {1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dinitrotoluene, 2,6-bis(1,1-dimethylethyl)-4-methyl phenol, 2-Chlorophenol, 2-Methylphenol (cresol, o-), 2-Nitrophenol, 3+4 Methylphenol (cresol, m+p), 4-Chloro-3-methylphenol, Acenaphthene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Bis(2-ethylhexyl) phthalate, Butylbenzylphthalate, Cellosolve Solvent, Chrysene, Cyclohexanone, Di-n-butylphthalate, Di-n-octylphthalate, Dibenz[a,h]anthracene, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate};
(3) Mercury - 7470 - (CV) (TF); ICP Metals - 6010 (SW-846) (TF); RADISO_ICPMS (TF);

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-165	PAGE 3 OF 3

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Ekstrom / Harris	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 Equipment Blank	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004		N/A	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	H2SO4 to pH <2/Cool~6C	ZnAc+NaOH to pH > 9/Cool~6C	NaOH to pH >=12/Cool~4 C	HNO3 to pH <2	None
HOLDING TIME	28 Days	7 Days	14 Days	6 Months	6 Months
TYPE OF CONTAINER	G/P	G/P	G/P	G/P	G/P
NO. OF CONTAINER(S)	1	1	1	2	1
VOLUME	250mL	500mL	250mL	1000mL	1000mL
SAMPLE ANALYSIS	300.7_AMMONIUM (TF);	Sulfide - 9215;	Total Cyanide - 9014 (TF);	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	C-14; H3 - TRITIUM; I129_SEP_GEA (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B26PF9	WATER	8/23/10	0045	✓ 2653	✓ 2651	✓ 2652	✓ 2649	✓ 2648

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris 8-23-10	1110	R.A. Steele R.A. Steele 8-23-10	1110
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
(4) GAMMA ENERGY ANALYSIS (TF); Americium-241 (TF); CURIUM; Nickel-63 (TF); Selenium-79 (TF); Strontium-89,90 -- Sr-90; Isotopic Plutonium {Plutonium-238, Plutonium-239/240};
1°C
RA

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev GG.0

Date Samples Received: 8-17-10

Number of Samples: 2 (sets) GVADOSE

Sample Custodian: [illegible]

Group #: 20100~~584~~, ~~583~~ 660, 657 VPR 8-17-10

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete		✓	on file
Check that outer custody seal is intact, if present	✓		
Record cooler temperature in centigrade, as appropriate	0°C / 1°C		☐ Check if no cooler and/or no ice
Samples are intact and in good condition			If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling	✓		
• Sampling location or origin	✓		
• Container type, size, and number	✓		
• Analysis request is clear	✓		
• Signature of persons relinquishing and receiving samples	✓		
• Date and/or time of sample custody exchange	✓		
Verify that sample numbers on containers match the COC and/or RSA	✓		
Samples stored properly (e.g., refrigeration)	✓		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials VPR Date 8-17-2010

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 0)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-095	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Ekstrom / Campbell	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 Field Blank 1	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	Surface	N/A	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CY1	WATER	8/17/10	0930	✓

S10V002241

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	0°C / RS
PR Ekstrom PC Ekstrom	8/17/10 1100	RS Steele RS Steele	8.17.10 1100	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	2225-20100657
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-096	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Ekstrom/Campbell	TEMPLETON, AM	373-5589	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	**75 Days / 75 Days**
C7682 Field Blank 2	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	Surface Dup	N/A	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CY2	WATER	8/17/10	0930	✓

S10V002242

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	0°C/RK
RE Ekstrom BC Ekstrom	8/17/10 1100	RL Steele RL Steele	8.17.10 1100	2223 - 20100657
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-085	PAGE 1 OF 1

COLLECTOR Ekstrom / Campbell	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 7P **AIR QUALITY** ☐
SAMPLING LOCATION C7682 Trip Blank 1	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC Sampling		**SAF NO.** V10-002	**DATA TURNAROUND** 75 Days / 75 Days
ICE CHEST NO. TFVS-09-003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** Surface	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A	

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	**PRESERVATION**	HCl or H2SO4 to pH <2/Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	**SAMPLE ANALYSIS**	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CX1	WATER	8/17/10	0855	✓

S10V002251

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	0°C / RF
BC Ekstrom	8/17/10 1100	RHSteele	8.17.10 1100	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	2225-20100657
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-260	PAGE 1 OF 1

COLLECTOR: Eksinom / Campbell	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P; DATA TURNAROUND
SAMPLING LOCATION: C7682 Surface	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐; 75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: Surface	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
HOLDING TIME	14 Days	14 Days
TYPE OF CONTAINER	Gs*	Gs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26JM0	SOIL	8/17/10	0930	✓	✓

S10V002273 - Low
S10V002274 - High

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: RRSteele RRSteele	DATE/TIME: 8/17/10 1100	RECEIVED BY/STORED IN: RRSteele RRSteele	DATE/TIME: 8.17.10 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, and 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

0°C / RS 0°C / RS

2225-20100660

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-012-059	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 9P	DATA TURNAROUND
Ekstrom / Campbell	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 Surface	WMA C Sampling for CMS - Methanol Process Control Sample		V10-012		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	Surface	N/A	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	Gs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CM9	OTHER LIQUID	8/17/10	0930	✓

S0V00 2275 - MB

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	8/17/10 1100	[illegible] RHSteele	8.17.10 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.

** This SAF addresses the one methanol process control sample collected whenever a VOA sample is collected.

0°C/pk

2225-20100660

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-259	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Ekstrom / Campbell	TEMPLETON, AM	373-5589	BERLIN, PC		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	**75 Days / 75 Days**
C7682 Surface	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFV2-10-000004	Surface	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14/40 Days
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26JL0	SOIL	8/17/10	0930	✓

S10V002280

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RAEhrs BCEkstrom	8/17/10 1100	RAStegle RASTEGLE	8.17.10 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

0°C / NK

2225-20100660

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-259	PAGE 2 OF 2
COLLECTOR Ekstrom / Campbell	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7682 Surface	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFV2-10-000004	ACTUAL SAMPLE DEPTH Surface	COA N/A	METHOD OF SHIPMENT Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1) Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); 1668 PCB CONGENER (TCL); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-262	PAGE 1 OF 1
COLLECTOR: Ekstrom / Campbell	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7682 Surface Dup	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: Surface Dup	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
HOLDING TIME	14 Days	14 Days
TYPE OF CONTAINER	Gs*	Gs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26JM1	SOIL	8/17/10	0930	✓	✓

S10V002306 - Low
S10V002307 - High

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: BCEkstrom BCEkstrom	DATE/TIME: 8/17/10 1100	RECEIVED BY/STORED IN: RKteele RKteele	DATE/TIME: 8.17.10 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, and 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

2225 - 20100650

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-060	PAGE 1 OF 1
COLLECTOR: Ekstrom / Campbell	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 9P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7682 Surface Dup	PROJECT DESIGNATION: WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO.: V10-012	AIR QUALITY: ☐	
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: Surface Dup	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	Gs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CN0	OTHER LIQUID	8/17/10	0930	✓

S10V002308 mB

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
BC Ekstrom BC Ekstrom	8/17/10 1100	RHStaeb RHStaeb	8.17.10 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.

** This SAF addresses the one methanol process control sample collected whenever a VOA sample is collected.

0°C / RK

2225-20100660

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-261	PAGE 1 OF 2
COLLECTOR: Ekstrom / Campbell	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7682 Surface Dup	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: Surface Dup	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14/40 Days
TYPE OF CONTAINER	G/P
NO. OF CONTAINER(S)	1
VOLUME	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26JL1	SOIL	8/17/10	0930	✓

S10V002309

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RL Ekstrom RC Ekstrom	8/17/10 1100	RA Steele RA Steele	8.17.10 1100
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

0 U / RK

222S-20100660

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-261	PAGE 2 OF 2
COLLECTOR Ekstrom/Campbell	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C7682 Surface Dup	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH Surface Dup	COA N/A	METHOD OF SHIPMENT Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1) Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); 1668 PCB CONGENER (TCL); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C 7682 Surface		
Sampler Initials:	BC / BE	**Date:**	8-17-10
Scale Number:	820-66-06-002	**Cal. Due Date:**	11-09-10

Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B26JM0	K	N/A	N/A	26.22	31.73	5.51	No Methanol
B26JM0	L	N/A	N/A	26.29	32.00	5.71	No Methanol
B26JM0	M	N/A	N/A	26.36	31.91	5.55	No Methanol
B26JM0	N	N/A	N/A	26.37	31.93	5.56	No Methanol
B26JM0	P	N/A	N/A	26.44	32.08	5.64	No Methanol
B26JM0	W	37.173	37.01	37.46	43.05	5.65	10 ml
B26JM0	X	36.861	36.69	37.06	42.63	5.57	10 ml
B26JM0	Y	37.262	37.11	37.49	42.70	5.21	10 ml
B26CM9	*	37.761	37.64	37.99	N/A	N/A	10 ml

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C7682 Surface Dup		
Sampler Initials:	BC/BE	**Date:**	8-17-10
Scale Number:	820-66-06-002	**Cal. Due Date:**	11-09-10

Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B26JM1	K	N/A	N/A	26.37	32.19	5.82	No Methanol
B26JM1	L	N/A	N/A	26.47	32.14	5.67	No Methanol
B26JM1	M	N/A	N/A	26.44	32.21	5.77	No Methanol
B26JM1	N	N/A	N/A	26.33	32.20	5.87	No Methanol
B26JM1	P	N/A	N/A	26.37	32.10	5.73	No Methanol
B26JM1	W	37.317	37.26	37.63	43.28	5.65	10ml
B26JM1	X	37.175	37.11	37.50	42.90	5.40	10ml
B26JM1	Y	37.207	37.15	37.55	43.21	5.66	10ml
B26CN0	*	37.772	37.74	38.08	N/A	N/A	10ml

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev EG.0

Date Samples Received: 8.18.10 Group #: 20100660

Number of Samples: 3 sets C-Farm VADOSE 20100657

Sample Custodian: RLRtas

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete	✓		on file
Check that outer custody seal is intact, if present			
Record cooler temperature in centigrade, as appropriate	~~10.6~~ ~~°C~~ ~~11~~		☐ Check if no cooler and/or no ice
Samples are intact and in good condition			If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling	✓		
• Sampling location or origin	✓		
• Container type, size, and number	✓		
• Analysis request is clear	✓		
• Signature of persons relinquishing and receiving samples	✓		
• Date and/or time of sample custody exchange	✓		
Verify that sample numbers on containers match the COC and/or RSA	✓		
Samples stored properly (e.g., refrigeration)	✓		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials YPR Date 8-18-10

If No, comment on communication and resolution:

Other Comments:

A-6005-342 (REV 0)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-086	PAGE 1 OF 1
COLLECTOR Harris / Snook	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 7P	**DATA TURNAROUND**
SAMPLING LOCATION C7682 Trip Blank 2	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC Sampling		**SAF NO.** V10-002	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO. TFVS-09-003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 5' to 7'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	**PRESERVATION**	HCl or H2SO4 to pH <2/Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	**SAMPLE ANALYSIS**	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CX2	WATER	8-18-10	0845	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	100/pk
Dan Harris Dan Harris	8-18-10 1200	RHSteele	8.18.10 1200	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	CRP# 20100657
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	Sm # 510V002252
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-097	PAGE 1 OF 1
COLLECTOR: Harris / Snock	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C7682 Field Blank 3	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V10-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 5' to 7'	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CY3	WATER	8-18-10	0925	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM: Dan Harris	DATE/TIME: 8-18-10 1200	RECEIVED BY/STORED IN: R Stegelc	DATE/TIME: 8.18.10 1200	1°V GRP # 20100657 Smp # S10V002243
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-098	PAGE 1 OF 1
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 Field Blank 4	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFUS-08-005	FIELD LOGBOOK NO. TFUZ-10-000004	ACTUAL SAMPLE DEPTH 10'-12'	COA N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CY4	WATER	8-18-10	1030	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
Dan Adams Dan Harris	8-18-10 1200	RHSteele RHSteele	8.18.10 1200	i/PK
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

GRP# 20100657
SAF# S10V002244

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-160	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7682 I001	WMA C Sampling for CMS	V10-003

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVS-09-003	TFVZ-10-000004	5'-7'	N/A	Govt. Vehicle

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations	N/A	N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
HOLDING TIME	14 Days	14 Days
TYPE OF CONTAINER	Gs*	Gs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26C48	SOIL	8-18-10	0900	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-18-10 1200	RLSteele RLSteele	8.18.10 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

-1°C
-4°C NA

GRP# 20100660
Smp# S10V002327
✓ 2329

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-001	PAGE 1 OF 1
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 9P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 I001	PROJECT DESIGNATION WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO. V10-012		
ICE CHEST NO. TFVS-09-005	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 5'-7'	COA n/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. n/A		BILL OF LADING/AIR BILL NO. n/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	Gs*
		NO. OF CONTAINER(S)	1
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CF1	OTHER LIQUID	8-18-10	0900	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[illegible]	8-18-10 1200	RHSteele	8.18.10 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.

** This SAF addresses the one methanol process control sample collected whenever a VOA sample is collected.

-1°C / RK

GRP# 20100660

SM# 510V002330

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-159	PAGE 1 OF 2
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 I001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 5'-7'	COA N/A	METHOD OF SHIPMENT Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14/40 Days
		TYPE OF CONTAINER	Gs jar/Liners
		NO. OF CONTAINER(S)	3
		VOLUME	160g
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C47	SOIL	8-18-10	0900	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Dan Harris Dan Harris 8-18-10	1200	RHStegle RHStegle	8.18.10 1200	0°C -1°C pk
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	GRP # 20100660
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	SAM # 510V00 2333 RHS ~~2335~~ 2335 2336
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-159	PAGE 2 OF 2
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 I001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFUS-09-003	FIELD LOGBOOK NO. TFUZ-10-000004	ACTUAL SAMPLE DEPTH 5'-7'	COA n/A	METHOD OF SHIPMENT Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. n/A		BILL OF LADING/AIR BILL NO. n/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1) Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); 1668 PCB CONGENER (TCL); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-162	PAGE 1 OF 1
COLLECTOR Harris / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 I002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFUS-09-003	FIELD LOGBOOK NO. TFUZ-10-000004	ACTUAL SAMPLE DEPTH 10' - 12'	COA n/A	METHOD OF SHIPMENT Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. n/A		BILL OF LADING/AIR BILL NO. n/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days	14 Days
		TYPE OF CONTAINER	Gs*	Gs*
		NO. OF CONTAINER(S)	5	3
		VOLUME	40mL	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26C50	SOIL	8-18-10	1015	✓	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-18-10 1200	RAStegl RASTEGL	8-18-10 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

-1°C
RA 0°C
-4 pH

GRP# 20100660
Sam# S10V 2358 RASTEGL
Y ~~2359~~ 2360

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-012-002	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 9P	DATA TURNAROUND
Harris / Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7682 I002	WMA C Sampling for CMS - Methanol Process Control Sample	V10-012

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVS-09-003	TFVZ-10-000004	10'-12'	N/A	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations	N/A	N/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	Gs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CF2	OTHER LIQUID	8-18-10	1015	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-18-10 1200	R.L. Steele R.L. Steele	8.18.10 1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.

** This SAF addresses the one methanol process control sample collected whenever a VOA sample is collected.

GRP # 20100660
SMM # S10V00 ~~2366~~ 2361

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-163	PAGE 1 OF 2
COLLECTOR: Harris / Snock	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7682 I003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 12' to 14'	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14/40 Days
TYPE OF CONTAINER	Gs jar/Liners
NO. OF CONTAINER(S)	14 SIS 8-18-10
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

3 Liners A,B,C
1 Shoe Sound
RtStd

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C51	SOIL	8-18-10	1130	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris 8-18-10	1200	RtStd RtStd 8-18-10	1200
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

-1 OV
RtS

GRP# 20100660
SAM# S10V 2387
2388
2389
2390

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-163	PAGE 2 OF 2
COLLECTOR Hardy Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 I003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 12' - 14'	COA n/A	METHOD OF SHIPMENT Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. n/A		BILL OF LADING/AIR BILL NO. n/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1) Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); 1668 PCB CONGENER (TCL); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

8-24-10

5/10/2010 1:54 PM	WORKING COPY

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C-7682 I 001		
Sampler Initials:	SAS	**Date:**	8-18-10
Scale Number:	820-66-06-002	**Cal. Due Date:**	11-09-10

Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B26C48	K	N/A	N/A	26.30	32.17	5.87	No Methanol
B26C48	L	N/A	N/A	26.34	32.16	5.82	No Methanol
B26C48	M	N/A	N/A	26.32	32.12	5.80	No Methanol
B26C48	N	N/A	N/A	26.53	32.16	5.63	No Methanol
B26C48	P	N/A	N/A	26.50	32.44	5.94	No Methanol
B26C48	W	37.187	37.13	37.56	42.86	5.30	10ml
B26C48	X	37.415	37.31	37.71	43.60	5.89	10 ml
B26C48	Y	37.064	37.02	37.37	42.64	5.27	10ml
B26CF1	*	36.721	36.66	37.02	N/A	N/A	10ml

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

5/10/2010 1:54 PM	WORKING COPY

VOC Soil and Sediment Sampling

ST
1015

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C7682 I002		
Sampler Initials:	SAS	**Date:**	8-18-10
Scale Number:	820-66-06-002	**Cal. Due Date:**	11-09-10

Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B26C50	K	N/A	N/A	25.87	30.81	4.94	No Methanol
B26C50	L	N/A	N/A	26.23	31.70	5.47	No Methanol
B26C50	M	N/A	N/A	26.29	31.96	5.67	No Methanol
B26C50	N	N/A	N/A	26.16	31.60	5.44	No Methanol
B26C50	P	N/A	N/A	26.15	30.92	4.77	No Methanol
B26C50	W	37.137	37.11	37.45	42.56	5.11	10ml
B26C50	X	36.954	36.92	37.26	42.28	5.02	10ml
B26C50	Y	36.629	36.59	36.91	42.17	5.26	10ml
B26CF2	*	37.133	37.09	37.43	N/A	N/A	10ml

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev EG.0

Date Samples Received: 8.19.10 Group #: 20100660, 657

Number of Samples:

Sample Custodian: [illegible]

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete		✓	on file
Check that outer custody seal is intact, if present	✓		
Record cooler temperature in centigrade, as appropriate	F 7°C / I 0°C		☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling			
• Sampling location or origin			
• Container type, size, and number			
• Analysis request is clear			
• Signature of persons relinquishing and receiving samples			
• Date and/or time of sample custody exchange			
Verify that sample numbers on containers match the COC and/or RSA			
Samples stored properly (e.g., refrigeration)	✓		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Yes PM Initials VPR Date 8/19/2010

If No, comment on communication and resolution:

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-087	PAGE 1 OF 1
COLLECTOR Harris / Snook	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 7P	**DATA TURNAROUND**
SAMPLING LOCATION C7682 Trip Blank 3	**PROJECT DESIGNATION** WMA C Sampling for CMS - QC Sampling		**SAF NO.** V10-002	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO. TFUS - 09-005	**FIELD LOGBOOK NO.** TFUZ-10-000004	**ACTUAL SAMPLE DEPTH** 14'-16'	**COA** n/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** n/A		**BILL OF LADING/AIR BILL NO.** n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CX3	WATER	8-19-10	0830	—

S10V002253

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	O/RA 20100657
Dan Harris	8-19-10 1140	RHSteele	8.19.10 1140	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-099	PAGE 1 OF 1
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 Field Blank 5	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 14' - 16'	COA N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CY5	WATER	8-19-10	0845	—

S10V002245

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	°C 0 26 222-20100657
Dan Harris, Dan Harris	8-19-10 1140	RPSteele RPSteele	8.19.10 1140	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-100	PAGE 1 OF 1
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 Field Blank 6	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 18' - 20'	COA n/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. n/A		BILL OF LADING/AIR BILL NO. n/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CY6	WATER	8-19-10	1005	✓

S10V002246

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
Dan Harris Dan Harris	8-19-10 1140	RT Steele RTSteele	8.19.10 1140	0°C/ice
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	2225-20100657
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME	

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-166	PAGE 1 OF 1
COLLECTOR Hurst/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 I004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-005	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 14'-16'	COA N/A	METHOD OF SHIPMENT Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
HOLDING TIME	14 Days	14 Days
TYPE OF CONTAINER	Gs*	Gs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26C54	SOIL	8-19-10	0910	✓	✓

S10V002404 ~~High~~ Low DPR 8-19-10
2405 High

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Davis Dan Davis	8-19-10 1140	RA Steele RA Steele	8.19.10 1140
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

2225-20100600

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-004	PAGE 1 OF 1
COLLECTOR: Snook / Harris	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 9P	DATA TURNAROUND
SAMPLING LOCATION: C7682 I004	PROJECT DESIGNATION: WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO.: V10-012	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 14' to 16'	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	Gs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CF4	OTHER LIQUID	8-19-10	0910	✓

S10V002406

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-19-10 1140	RtSkolk RtSkolk	8.19.10 1140
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.

** This SAF addresses the one methanol process control sample collected whenever a VOA sample is collected.

O/RK

~~2226-20100660~~ JPR 8-19-10

2225-20100660

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-165	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris/Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 I004	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	14'-16'	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14/40 Days
TYPE OF CONTAINER	Gs jar/Liners
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C53	SOIL	8-19-10	0910	—

S10V002407 A
2408 B
2409 C

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dea Anna Dee Harris 8-19-10	1140	R Steele RJSteele	8.19.10 1140
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

°C
0/pk

2225-20100660

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-165	PAGE 2 OF 2
COLLECTOR Hurst / Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 I004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000084	ACTUAL SAMPLE DEPTH 14'-16'	COA N/A	METHOD OF SHIPMENT Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1) Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); 1668 PCB CONGENER (TCL); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-168	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7682 I005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 18' - 20'	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
HOLDING TIME	14 Days	14 Days
TYPE OF CONTAINER	Gs*	Gs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26C56	SOIL mpl 8-19-10	8-19-10	1030	✓	✓

S10V002423 ~~High~~ Low
2424 ~~Low~~ High

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris 8-19-10	1140	RTSteele RTSteele 8.19.10	1140
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

7°C
0°C
2225-20100660

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-005	PAGE 1 OF 1
COLLECTOR Harris / Smook	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 9P	**DATA TURNAROUND**
SAMPLING LOCATION C7682 I005	**PROJECT DESIGNATION** WMA C Sampling for CMS - Methanol Process Control Sample		**SAF NO.** V10-012	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO. TFVS-09-003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 18' - 20'	**COA** N/A	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** N/A		**BILL OF LADING/AIR BILL NO.** N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	**PRESERVATION**	Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	Gs*
		NO. OF CONTAINER(S)	1
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	**SAMPLE ANALYSIS**	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CF5	OTHER LIQUID	8-19-10	1030	✓

S10V002425

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-19-10 1140	R Steele R Steele	8.19.10 1140
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.

** This SAF addresses the one methanol process control sample collected whenever a VOA sample is collected.

O/RK

2225-2010660

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-167	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Hurd/Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 I005	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	18'-20'	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14/40 Days
TYPE OF CONTAINER	Gs jar/Liners
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C55	SOIL	8-19-10	1030	✓

S10V002426 A
2427 B
2428 C

CHAIN OF POSSESSION	SIGN/ PRINT NAMES		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris 8-19-10	1140	RHSteele RHSteele 8.19.10	1140
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

0/RK

2225-20100660

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-167	PAGE 2 OF 2
COLLECTOR Harris/ Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 I005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 18'-20'	COA N/A	METHOD OF SHIPMENT Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1) Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); 1668 PCB CONGENER (TCL); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

1030

SAMPLE RECORD SHEET

Location:	C7682 I005		
Sampler Initials:	SMS	**Date:**	8-19-10
Scale Number:	820-66-06-002	**Cal. Due Date:**	11-9-10

Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B26C56	K	N/A	N/A	26.22	31.49	5.27	No Methanol
B26C56	L	N/A	N/A	26.17	31.06	4.89	No Methanol
B26C56	M	N/A	N/A	26.09	30.98	4.89	No Methanol
B26C56	N	N/A	N/A	25.93	30.94	5.01	No Methanol
B26C56	P	N/A	N/A	26.30	31.20	4.90	No Methanol
B26C56	W	36.854	36.80	37.18	42.97	5.79	10 ml
B26C56	X	36.418	36.38	36.73	41.82	5.09	10 ml
B26C56	Y	37.037	36.98	37.35	42.41	5.06	10 ml
B26CF5	*	36.992	36.85	37.29	N/A	N/A	10 ml

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

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VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

0910

Location:	C7682 I004		
Sampler Initials:	SAS	**Date:**	8-19-10
Scale Number:	820-66-06-002	**Cal. Due Date:**	11-9-10

Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B26C54	K	N/A	N/A	26.36	30.90	4.54	No Methanol
B26C54	L	N/A	N/A	26.16	30.40	4.24	No Methanol
B26C54	M	N/A	N/A	25.97	30.80	4.83	No Methanol
B26C54	N	N/A	N/A	26.22	30.95	4.73	No Methanol
B26C54	P	N/A	N/A	26.18	28.64	2.46	No Methanol
B26C54	W	37.821	37.72	38.08	41.95	3.87	10ml
B26C54	X	37.163	37.06	37.48	43.05	5.57	10ml
B26C54	Y	37.143	37.06	37.45	42.60	5.15	10ml
B26CF4	*	37.535	37.45	37.82	N/A	N/A	10ml

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev EE.0

Date Samples Received: 8.23.10 Group #: 20100660, 657

Number of Samples: (1 set) C-Farm VADOSE

Sample Custodian: [illegible]

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete	✓		on file
Check that outer custody seal is intact, if present	✓		
Record cooler temperature in centigrade, as appropriate	6°C / 9°C		☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling			
• Sampling location or origin			
• Container type, size, and number			
• Analysis request is clear			
• Signature of persons relinquishing and receiving samples			
• Date and/or time of sample custody exchange			
Verify that sample numbers on containers match the COC and/or RSA			
Samples stored properly (e.g., refrigeration)	✓		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? Y PM Initials DPR Date 8-23-10

If No, comment on communication and resolution:

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-089	PAGE 1 OF 1
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 Trip Blank 5	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFVS-09-007	FIELD LOGBOOK NO. TFV2-10-000004	ACTUAL SAMPLE DEPTH 45'-47'	COA n/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. n/A		BILL OF LADING/AIR BILL NO. n/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CX5	WATER	8-23-10	0845	—

S10V002255

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Dan Harris	DATE/TIME 8-23-10 1115	RECEIVED BY/STORED IN RTSteele	DATE/TIME 8.23.10 1115	6V/RK 2225-20100657
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-101	PAGE 1 OF 1
COLLECTOR Harris/Snook	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P	DATA TURNAROUND
SAMPLING LOCATION C7682 Field Blank 7	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO. TFVS-09-007	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 45' - 47'	COA n/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. n/A		BILL OF LADING/AIR BILL NO. n/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CY7	WATER	8-23-10	0855	—

S10V002247

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM Dan Harris 8-23-10	DATE/TIME 1115	RECEIVED BY/STORED IN RLSteele 8-23-10	DATE/TIME 1115	6 c RLS 2225-20100657
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-170	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C7682 I006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V10-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-007	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 45' to 47'	COA: N/A	METHOD OF SHIPMENT: Govt. Vehicle	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
HOLDING TIME	14 Days	14 Days
TYPE OF CONTAINER	Gs*	Gs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26C58	SOIL	8-23-10	1000	/	/

210V002442 Low
2443 high

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-23-10 1115	RHMcGlo RHMcGlo	8.23.10 1115
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

6°C / 9°C

2225-20100660

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-006	PAGE 1 OF 1
COLLECTOR: Snook / Harris	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 9P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C7682 I006	PROJECT DESIGNATION: WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO.: V10-012	AIR QUALITY: ☐	
ICE CHEST NO.: TFVS-09-~~003~~ 007 SAS 8-23-10	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 45' to 47'	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	Gs*
		NO. OF CONTAINER(S)	1
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CF6	OTHER LIQUID	8-23-10	1000	—

S10V002444 MB

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Dan Harris Dan Harris 8-23-10	DATE/TIME: 1115	RECEIVED BY/STORED IN: R.A. Eggle RAEgle 8.23.10	DATE/TIME: 1115
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.

** This SAF addresses the one methanol process control sample collected whenever a VOA sample is collected.

6°C / RK

2225-20100660

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-169	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris / Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 I006	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-007	TFVZ-10-000004	45-47'	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14/40 Days
TYPE OF CONTAINER	Gs jar/Liners
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C57	SOIL	8-23-10	1000	

S10V002445 A
2446 B
2447 C

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris	8-23-10 1115	RBSteele	8.23.10 1115
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
6°C

2225-20100660

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-169	PAGE 2 OF 2
COLLECTOR Harris/Snook	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C7682 I006	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO. TFU8- 09-007	**FIELD LOGBOOK NO.** TFU2- 10-000004	**ACTUAL SAMPLE DEPTH** 45'- 47'	**COA** n/a	**METHOD OF SHIPMENT** Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** n/a		**BILL OF LADING/AIR BILL NO.** n/a		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1) Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); 1668 PCB CONGENER (TCL); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

5/10/2010 1:54 PM	WORKING COPY

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C2662 E006		
Sampler Initials:	SAS	**Date:**	23AUG10
Scale Number:	920-66-06-002	**Cal. Due Date:**	11-09-10

Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B26C58	K	N/A	N/A	26.10	~~37.11~~ 31.81	5.71	No Methanol
B26C58	L	N/A	N/A	26.19	31.92	5.73	No Methanol
B26C58	M	N/A	N/A	25.91	31.11	5.20	No Methanol
B26C58	N	N/A	N/A	26.22	31.16	4.94	No Methanol
B26C58	P	N/A	N/A	26.15	31.83	5.68	No Methanol
B26C58	W	36.888	36.84	37.15	42.26	5.11	10 ml.
B26C58	X	37.442	37.37	37.67	41.46	3.79	10 ml
B26C58	Y	36.881	36.80	37.08	41.20	4.12	10 ml
B26C58	*	37.519	37.52	37.78	N/A	N/A	10 ml

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev 66.0

Date Samples Received: 8-24-10 Group #: 20100657 Y 660

Number of Samples: 1 set C-FARM VADOSE

Sample Custodian: RLHal

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete	✓		on file
Check that outer custody seal is intact, if present	✓		
Record cooler temperature in centigrade, as appropriate	6°C/-11°C		☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling	✓		
• Sampling location or origin	✓		
• Container type, size, and number	✓		
• Analysis request is clear	✓		
• Signature of persons relinquishing and receiving samples	✓		
• Date and/or time of sample custody exchange	✓		
Verify that sample numbers on containers match the COC and/or RSA	✓		
Samples stored properly (e.g. refrigeration)	✓		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? YES PM Initials RK Date 8-24-10

If No, comment on communication and resolution: per G. Ritenour

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-002-088	PAGE 1 OF 1
COLLECTOR Dan Harris	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 Trip Blank 4	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V10-002		
ICE CHEST NO. TFVS-09-003	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 88' - 90'	COA N/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. N/A		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	HOLDING TIME	14 Days
		TYPE OF CONTAINER	aGs*
		NO. OF CONTAINER(S)	3
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CX4	WATER	8-24-10	0930	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	6°C/pk GRP# 20100657 SAM# S10V002254
Dan Harris Dan Harris	8-24-10 1130	R Steele R Steele	8-24-10 1130	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-102	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Dan Harris	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 Field Blank 8	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFV3-09-003	TFVZ-10-000004	88' - 90'	n/A	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CY8	WATER	8-24-10	0935	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris 8-24-10	1130	RRSteele RRSteele 8.24.10	1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
6°C/PK
GRP # 20100657
~~20100224~~8 Nitrat
SAMP # S10V002248

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-172	PAGE 1 OF 1
COLLECTOR Dan Harris	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 I007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V10-003		
ICE CHEST NO. TFUS-09-003	FIELD LOGBOOK NO. TFUZ-10-000004	ACTUAL SAMPLE DEPTH 88'-90'	COA N/A	METHOD OF SHIPMENT Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO. N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~ 4C
HOLDING TIME	14 Days	14 Days
TYPE OF CONTAINER	Gs*	Gs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26C60	SOIL	8-24-10	1030	—	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-24-10 1130	RTSteele RTSteele	8.24.10 1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

6U
-11.0U
RK

GRP# 20100660
SAM# S10V002461
Y 2462

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-007	PAGE 1 OF 1
COLLECTOR Dan Harris	COMPANY CONTACT TEMPLETON, AM	TELEPHONE NO. 373-5589	PROJECT COORDINATOR BERLIN, PC	PRICE CODE 9P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C7682 I007	PROJECT DESIGNATION WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO. V10-012		
ICE CHEST NO. TFVS-09-005	FIELD LOGBOOK NO. TFVZ-10-000004	ACTUAL SAMPLE DEPTH 88' - 90'	COA n/A	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO. n/A		BILL OF LADING/AIR BILL NO. n/A		

MATRIX*	POSSIBLE SAMPLE HAZARDS/ REMARKS		
A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION	Cool~4C
		HOLDING TIME	14 Days
		TYPE OF CONTAINER	Gs*
		NO. OF CONTAINER(S)	1
		VOLUME	40mL
	SPECIAL HANDLING AND/OR STORAGE	SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CF7	OTHER LIQUID	8-24-10	1030	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-24-10 1130	RtStedle RtStedle	8.24.10 1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.

** This SAF addresses the one methanol process control sample collected whenever a VOA sample is collected.

OU 6/RA

GRP # 20100660
STM # S10V002463

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-171	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Dan Harris	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 I007	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	88' - 90'	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14/40 Days
TYPE OF CONTAINER	Gs jar/Liners
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C59	SOIL	8-24-10	1030	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-24-10 1130	RtSteele RtSteele	8.24.10 1130
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ov/6/RA

GRP # 20100660
SAM # 510U00 2464
2465
2466

LABORATORY SECTION	**RECEIVED BY**	**TITLE**	**DATE/TIME**
FINAL SAMPLE DISPOSITION	**DISPOSAL METHOD**	**DISPOSED BY**	**DATE/TIME**

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-171	PAGE 2 OF 2
COLLECTOR Dan Harris	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C7682 I007	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO. TFVS-09-003	**FIELD LOGBOOK NO.** TFVZ-10-000004	**ACTUAL SAMPLE DEPTH** 88' - 90'	**COA** n/A	**METHOD OF SHIPMENT** Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** n/A		**BILL OF LADING/AIR BILL NO.** n/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1) Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); 1668 PCB CONGENER (TCL); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

5/10/2010 1:54 PM	WORKING COPY

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C7682I007		
Sampler Initials:	CDA	**Date:**	24AUG10
Scale Number:	820-66-06-002	**Cal. Due Date:**	11-09-10

Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B26C60	K	N/A	N/A	26.20	29.88	3.68	No Methanol
B26C60	L	N/A	N/A	26.24	29.36	3.12	No Methanol
B26C60	M	N/A	N/A	26.00	31.44	5.44	No Methanol
B26C60	N	N/A	N/A	26.15	28.40	2.25	No Methanol
B26C60	P	N/A	N/A	26.07	29.33	3.26	No Methanol
B26C60	W	37.137	37.05	37.37	40.07	2.70	10 ml
B26C60	X	37.579	37.50	37.90	41.06	3.16	10 ml
B26C60	Y	36.899	36.86	37.22	41.45	4.23	10 ml
B26C71	*	37.010	36.96	37.33	N/A	N/A	10 ml

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

ATL	SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST	LO-090-101 Rev EE.0

Date Samples Received: 8-25.10 Group #: 20100660 Y 657

Number of Samples: 1 set C-Form C7682

Sample Custodian: [illegible]

Sample Custodian to Complete:

Action	OK? (Y/N)	N/A	Comments
RSA/COC provided?	✓		
RSR provided?	✓		
Verify GKI is complete		✓	on file
Check that outer custody seal is intact, if present			
Record cooler temperature in centigrade, as appropriate	~~1°C~~ 8°C		☐ Check if no cooler and/or no ice
Samples are intact and in good condition	✓		If No, provide comments on back
Verify that COC or RSA is accurate and complete, containing the following information:			
• Client name and client sample number	✓		
• Date and time of sampling	✓		
• Sampling location or origin	✓		
• Container type, size, and number	✓		
• Analysis request is clear	✓		
• Signature of persons relinquishing and receiving samples	✓		
• Date and/or time of sample custody exchange	✓		
Verify that sample numbers on containers match the COC and/or RSA	✓		
Samples stored properly (e.g., refrigeration)	✓		

Notify the PM immediately if any problems are noted. (A "No" answer requires Project Manager resolution.)

PM to Complete:

Samples acceptable for release? yes PM Initials DPR Date 8-25-2010

If No, comment on communication and resolution:

Other Comments:

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-103	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris/Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days

SAMPLING LOCATION	PROJECT DESIGNATION	SAF NO.
C7682 Field Blank 9	WMA C Sampling for CMS - QC Sampling	V10-002

ICE CHEST NO.	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
TFVS-09-005	TFV2-10-000004	122' - 124'	n/A	GOVERNMENT VEHICLE

SHIPPED TO	OFFSITE PROPERTY NO.	BILL OF LADING/AIR BILL NO.
222-S Lab Operations	n/A	n/A

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CY9	WATER	8-25-10	0855	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris 8-25-10	1105	R Steele R Steele 8.25.10	1105
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

°C 0/pt

GRP# 20100657
Sam# 510V002249

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-002-090	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Harris / Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 Trip Blank 6	WMA C Sampling for CMS - QC Sampling		V10-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	122' to 124'	N/A	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CX6	WATER	8-25-10	0845	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-25-10 1105	R Stecle R Stecle	8-25-10 1105
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
OV
GRP# 20100657
SAM# 510V002256

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-174	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris/Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 I008	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFVZ-10-000004	122'-124'	N/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	N/A		N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~4C
HOLDING TIME	14 Days	14 Days
TYPE OF CONTAINER	Gs*	Gs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (LOW LEVEL) (TF);	VOA - 5035/8260 (HIGH LEVEL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B26C62	SOIL	8-25-10	1005	—	✓

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-25-10 1105	RKSteele RKSteele	8-25-10 1105
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** VOA sample bottle sets will include 3 bottles for high level analysis, 5 bottles for low level analysis, and 1 methanol process control sample.
** The laboratory is to use one of the low level VOA bottles for moisture content determination.
** VOA bottles will be labeled with a suffix of K, L, M, N, or P for low level and W, X, or Y for high level. These suffixes are for the purpose of providing bottle weights to the laboratories. These suffixes should not be included as part of the sample ID reported in the final data packages.

GRP# 20100660
Sam# S10V00 2480
Y 2481

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME	
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME	

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-012-008	PAGE 1 OF 1
COLLECTOR: Harris / Snook	COMPANY CONTACT: TEMPLETON, AM	TELEPHONE NO.: 373-5589	PROJECT COORDINATOR: BERLIN, PC	PRICE CODE: 9P	DATA TURNAROUND
SAMPLING LOCATION: C7682 I008	PROJECT DESIGNATION: WMA C Sampling for CMS - Methanol Process Control Sample		SAF NO.: V10-012	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.: TFVS-09-003	FIELD LOGBOOK NO.: TFVZ-10-000004	ACTUAL SAMPLE DEPTH: 122' to 124'	COA: N/A	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: N/A		BILL OF LADING/AIR BILL NO.: N/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14 Days
TYPE OF CONTAINER	Gs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	VOA - 5035/8260 (TCL) (TF);

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26CF8	OTHER LIQUID	8-25-10	1005	

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-25-10 1105	RtSteel/G RtSteel/G	8-25-10 1105
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.

** This SAF addresses the one methanol process control sample collected whenever a VOA sample is collected.

O.U. / RA

GRP # 20100660
Sam # S10V002482

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V10-003-173	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Harris/ Snook	TEMPLETON, AM	373-5589	BERLIN, PC	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C7682 I008	WMA C Sampling for CMS		V10-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
TFVS-09-003	TFV2-10-000004	122' - 124'	n/A	Govt. Vehicle	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations	n/A		n/A		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~4C
HOLDING TIME	14/40 Days
TYPE OF CONTAINER	Gs jar/Liners
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B26C61	SOIL	8-25-10	1005	—

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Dan Harris Dan Harris	8-25-10 1105	RtSteele RtSteele	8-25-10 1105
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

0°C / RT

GRP# 20100660
SAM# 510V002483
2484
2485

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V10-003-173	PAGE 2 OF 2
COLLECTOR Harris/ Snook	**COMPANY CONTACT** TEMPLETON, AM	**TELEPHONE NO.** 373-5589	**PROJECT COORDINATOR** BERLIN, PC	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C7682 I008	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V10-003	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO. TFUS-09-003	**FIELD LOGBOOK NO.** TFVZ-10-00000 4	**ACTUAL SAMPLE DEPTH** 122'-124'	**COA** n/A	**METHOD OF SHIPMENT** Govt. Vehicle	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.** n/A		**BILL OF LADING/AIR BILL NO.** n/A		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the sampler will cap remaining liners for shipment to 222-S. Where capping is not possible, the sample shall be put into 500 mL or 250 mL glass bottles with Teflon-lined lids.
(1) Semi-VOA - 8270 Complete (TF); TPH-Gasoline Range - WTPH-G; TPH-Diesel Range - WTPH-D; PCBs - 8082; Pesticides - 8081 (TF); 1668 PCB CONGENER (TCL); ICP Metals - 6010 (SW-846) (TF); Mercury - 7471 - (CV) (TF); 300.7_AMMONIUM (TF); IC Anions - 9056; Sulfide - 9215; Total Cyanide - 9014 (TF); pH (Soil) - 9045; Americium-241 (TF); C-14; CURIUM; GAMMA ENERGY ANALYSIS (TF); H3 - TRITIUM; I129_SEP_GEA (TF); Isotopic Plutonium {Plutonium-238, Plutonium-239/240}; Nickel-63 (TF); RADISO_ICPMS (TF); Selenium-79 (TF); Strontium-90; Conductivity - 9050_WE; Percent Solids (TF); Percent Water (TF);

5/10/2010 1:54 PM	WORKING COPY

VOC Soil and Sediment Sampling

Data Sheet 1 – Sample Record Sheet

SAMPLE RECORD SHEET

Location:	C7682 I008		
Sampler Initials:	SNS	**Date:**	8-25-10
Scale Number:	820-66-06-002	**Cal. Due Date:**	11-9-10

Sample Number	Sample Suffix[1]	Tare Weight provided (grams)	Tare Weight prior to sample[2] (grams)	Initial Weight[3] (grams)	Total Weight[4] (grams)	Soil Weights (grams)[5]	Methanol in sample bottle (ml)
B26C62	K	N/A	N/A	26.07	31.15	5.08	No Methanol
B26C62	L	N/A	N/A	26.18	31.43	5.25	No Methanol
B26C62	M	N/A	N/A	26.14	31.10	4.96	No Methanol
B26C62	N	N/A	N/A	26.00	30.38	4.38	No Methanol
B26C62	P	N/A	N/A	25.92	31.00	5.08	No Methanol
B26C62	W	37.800	37.67	38.06	42.88	4.82	10ml
B26C62	X	37.214	37.12	37.49	42.45	4.96	10ml
B26C62	Y	36.914	36.83	37.21	41.87	4.66	10ml
B26CF8	*	37.440	37.36	37.75	N/A	N/A	10ml

1 Sample suffix of K, L, M, N, and P will not have Methanol in the bottle, freeze these samples to between -7 °C (19.4 °F) and -20 °C (-4 °F)

Sample suffix of W, X, and Y relate to methanol preservation for high-level samples.

Sample suffix of "*" relates to methanol blank. Cool W, X, Y, and * samples to between - 4 °C ± 2 °C (39.2 °F ± 3.6 °F).

2 Tare weight prior to sample must be within +/- 0.2 grams of Vendors tare weight or bottle cannot be used. Weigh only the bottle, no labels, stickers or bags.

3 Initial weight is to include all labels, stickers, bags, methanol (for vendor filled methanol samples with suffix W,X,Y and *) spin bars (for samples with suffix K,L,M,N and P) and anything else that will be associated with the bottle when it is weighed with the sample.

4 Ensure that everything weighed for the empty bottle and no additional items (besides the sample) is weighed.

5 Soil weight is the vial with sample minus Initial Weight.

Appendix A

Analytical Report for Analysis Performed at the
Waste Sampling and Characterization Facility

WSCF Laboratory

PO Box 650 S3-30
Richland, WA 99352

January 26, 2011

Melissa Garrard

Richland, WA 99352

Dear Melissa Garrard,

FINAL RESULT FOR SAMPLE DELIVERY GROUP WSCF111100

Reference: (1) NA - No Customer Specification
(2) HNF-SD-CD-QAPP-017, current version, Waste Sampling & Characterization Facility Quality Assurance Plan

This letter contains the following information for sample delivery group WSCF111100

* Cover Sheet (Attachment 1)
* Narrative (Attachment 2)
* Analytical Results (Attachment 3)
* Sample Receipt Information (Attachment 4)

Very truly yours,

Electronically signed by Carolyn Watkins

For Lab Manager

WSCF Analytical Lab

(509) 373-7495

Attachments 4

CC: w/Attachments

File/LB

ATTACHMENT 1

COVER SHEET

Consisting of 2 pages
Including cover page

WSCF SAF Number Cross Reference

Group # WSCF111100
Data Deliverable Date 08/09/10

SAF #	Sample ID	Sample #	Matrix	Sampled	Received
	B26CD0	111100001	SOIL	07/21/10	01/11/11
	B26CD2	111100002	SOIL	07/27/10	01/11/11
	B26CD4	111100003	SOIL	07/29/10	01/11/11
	B26JK6	111100004	SOIL	07/19/10	01/11/11
	B26JK7	111100005	SOIL	07/19/10	01/11/11
	B29612	111100006	SOIL	07/20/10	01/11/11
	B26CC4	111100007	SOIL	07/21/10	01/11/11
	B29613	111100008	SOIL	07/21/10	01/11/11
	B26PH0	111100009	SOIL	07/27/10	01/11/11
	B26PH1	111100010	SOIL	07/28/10	01/11/11
	B26PH2	111100011	SOIL	07/28/10	01/11/11
	B26JL0	111100012	SOIL	08/17/10	01/11/11
	B26JL1	111100013	SOIL	08/17/10	01/11/11
	B26C59	111100014	SOIL	08/24/10	01/11/11
	B26C47	111100015	SOIL	08/18/10	01/11/11
	B26C51	111100016	SOIL	08/18/10	01/11/11
	B26C53	111100017	SOIL	08/19/10	01/11/11
	B26C55	111100018	SOIL	08/19/10	01/11/11
	B26C57	111100019	SOIL	08/23/10	01/11/11
	B26C61	111100020	SOIL	08/25/10	01/11/11

ATTACHMENT 2

NARRATIVE

Consisting of 2 pages
Including cover page

Attachment 2
Narrative
WSCF111100

Introduction

Twenty (20) soil samples were received at the WSCF Laboratory on January 11, 2011. The samples were analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Field Sampling and Analysis Plan for Waste Management Area C, RPP-PLAN-40564, Rev 2.*

The narrative (Attachment 2) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 3) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information as applicable. Copies of the chain of custody and sample receipt documentation are included as Attachment 4.

The following generic data qualifiers (i.e., B, D, U and J) may be applicable to this report, as appropriate

- **B** – Sample results with a concentration greater than the MDL but less than the PQL are B flagged (applies to inorganic and wet chemical analyses), as appropriate.
- **D** – Sample results are D flagged if dilution(s) were required, as appropriate.
- **J** – Sample results with a concentration greater than the MDL but less than the PQL are J flagged (applies to organic analyses), as appropriate.
- **U** – Analyzed for but not detected above limiting criteria. Relative Percent Difference (RPD) values associated with an analyte qualified with a "U" are not applicable.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report* for a complete listing of approved analytical methods.

Inorganic Comments

ICP-MS Metals – The hold time requirements for this analysis were met. A Matrix Spike, Matrix Spike Duplicate, Blank and Laboratory Control Sample were analyzed with this delivery group. Analytical Note(s):

- All QC controls are within the established limits.

We certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this data package has been authorized by the Analytical Laboratory Manager (or designee) and the Client Services representative as verified by electronic signatures shown on the WSCF ANALYTICAL RESULTS REPORT.

ATTACHMENT 3

ANALYTICAL RESULTS

Consisting of 49 pages
Including cover page

WSCF ANALYTICAL RESULTS REPORT

For

Washington River Protection Solutions

Richland, WA 99352

Attention: Melissa Garrard

Contract #	NA
Group #	WSCF111100
Report Date	January 26, 2011

Analytical: Electronically signed by Carolyn Watkins

Client Services: Electronically signed by Marisol Avila

Solid samples results that have a 'Percent Solid' test are reported on a "dry weight basis", except results of TCLP, Percent Solid, and Total Activity. If no `Percent Solid' test is reported then the results are reported on an "as received" basis.

This information is intended for the use of the addressee only. If the reader of this report is not the intended recipient or is not authorized by the recipient to receive the report, you are hereby notified that any dissemination, distribution or copying of this report is strictly prohibited. If you have received this report in error, please notify WSCF Laboratory immediately by telephone at (509) 373-7020 or (509) 531-8004. Information designation of this report is the responsibility of the customer.

Batch QC List

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
173809	173812	4	BLANK	46100	BLANK		ICP-2008 MS All possible metal
173809	173812	5	LCS	46101	LCS		ICP-2008 MS All possible metal
173809	173812	6	MS	46102	B26CD0(111100001MS)	111100001	ICP-2008 MS All possible metal
173809	173812	7	MSD	46103	B26CD0(111100001MSD)	111100001	ICP-2008 MS All possible metal
173809	173812	8	SAMPLE	111100001	B26CD0		ICP-2008 MS All possible metal
173809	173812	9	SAMPLE	111100002	B26CD2		ICP-2008 MS All possible metal
173809	173812	10	SAMPLE	111100003	B26CD4		ICP-2008 MS All possible metal
173809	173812	11	SAMPLE	111100004	B26JK6		ICP-2008 MS All possible metal
173809	173812	12	SAMPLE	111100005	B26JK7		ICP-2008 MS All possible metal
173809	173812	13	SAMPLE	111100006	B29612		ICP-2008 MS All possible metal
173809	173812	16	SAMPLE	111100007	B26CC4		ICP-2008 MS All possible metal
173809	173812	17	SAMPLE	111100008	B29613		ICP-2008 MS All possible metal
173809	173812	18	SAMPLE	111100009	B26PH0		ICP-2008 MS All possible metal
173809	173812	19	SAMPLE	111100010	B26PH1		ICP-2008 MS All possible metal
173809	173812	20	SAMPLE	111100011	B26PH2		ICP-2008 MS All possible metal
173809	173812	21	SAMPLE	111100012	B26JL0		ICP-2008 MS All possible metal
173809	173812	22	SAMPLE	111100013	B26JL1		ICP-2008 MS All possible metal
173809	173812	23	SAMPLE	111100014	B26C59		ICP-2008 MS All possible metal
173809	173812	24	SAMPLE	111100015	B26C47		ICP-2008 MS All possible metal
173809	173812	25	SAMPLE	111100016	B26C51		ICP-2008 MS All possible metal
173809	173812	28	SAMPLE	111100017	B26C53		ICP-2008 MS All possible metal
173809	173812	29	SAMPLE	111100018	B26C55		ICP-2008 MS All possible metal
173809	173812	30	SAMPLE	111100019	B26C57		ICP-2008 MS All possible metal

Batch QC List

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
173809	173812	31	SAMPLE	111100020	B26C61		ICP-2008 MS All possible metal

Batch QC List

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

QC Batch	Analytical Batch	S#	Type	Sample #	Client Sample#	Original	Test
174425	174425	1	SAMPLE	111100002	B26CD2		Dry Weight/Percent Moisture
174425	174425	2	SAMPLE	111100001	B26CD0		Dry Weight/Percent Moisture
174425	174425	3	SAMPLE	111100003	B26CD4		Dry Weight/Percent Moisture
174425	174425	4	SAMPLE	111100004	B26JK6		Dry Weight/Percent Moisture
174425	174425	5	SAMPLE	111100005	B26JK7		Dry Weight/Percent Moisture
174425	174425	6	SAMPLE	111100006	B29612		Dry Weight/Percent Moisture
174425	174425	7	SAMPLE	111100007	B26CC4		Dry Weight/Percent Moisture
174425	174425	8	SAMPLE	111100008	B29613		Dry Weight/Percent Moisture
174425	174425	9	SAMPLE	111100009	B26PH0		Dry Weight/Percent Moisture
174425	174425	10	SAMPLE	111100010	B26PH1		Dry Weight/Percent Moisture
174425	174425	11	SAMPLE	111100011	B26PH2		Dry Weight/Percent Moisture
174425	174425	12	SAMPLE	111100012	B26JL0		Dry Weight/Percent Moisture
174425	174425	13	SAMPLE	111100013	B26JL1		Dry Weight/Percent Moisture
174425	174425	14	SAMPLE	111100014	B26C59		Dry Weight/Percent Moisture
174425	174425	15	SAMPLE	111100015	B26C47		Dry Weight/Percent Moisture
174425	174425	16	SAMPLE	111100016	B26C51		Dry Weight/Percent Moisture
174425	174425	17	SAMPLE	111100017	B26C53		Dry Weight/Percent Moisture
174425	174425	18	SAMPLE	111100018	B26C55		Dry Weight/Percent Moisture
174425	174425	19	SAMPLE	111100019	B26C57		Dry Weight/Percent Moisture
174425	174425	20	SAMPLE	111100020	B26C61		Dry Weight/Percent Moisture

Method Reference

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-505-412 Determination of Trace Elements in Waters & Wastes by ICP-Mass Spectrometry

EPA-600/R-94-111	200.8	Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma
HEIS	200.8_METALS_ICPMS	Determination of Trace Elements in Waters and Waste by Inductively Coupled Plasma, Mass Spec.

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

Method Reference

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory, industry methods or HEIS methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-519-412 Total Residual Percent Solids Dried at 103 - 105 Degrees C

EPA-600/4-79-020	160.3	Total Residue
Standard Methods	2540B	Total Solids Dried at 103-105 C
HEIS	%SOLIDS	Dry Weight, Percent Solids

Note: A complete list of WSCF analytical procedures and reference regulatory or industry methods is available online at http://www7.rl.gov/rapidweb/AS-DOL/index.cfm

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100001
SAF#
Sample ID B26CD0

Matrix SOIL
Sampled 07/21/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.11		mg/kg	1	0.11	1.1	01/16/11
Antimony	7440-36-0	LA-505-412	U	<0.32		mg/kg	1	0.32	3.2	01/16/11
Arsenic	7440-38-2	LA-505-412		6.03		mg/kg	1	0.43	4.3	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.36		mg/kg	1	0.32	3.2	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100002
SAF#
Sample ID B26CD2

Matrix SOIL
Sampled 07/27/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.10		mg/kg	1	0.10	1.0	01/16/11
Antimony	7440-36-0	LA-505-412	U	<0.30		mg/kg	1	0.30	3.0	01/16/11
Arsenic	7440-38-2	LA-505-412		4.22		mg/kg	1	0.40	4.0	01/16/11
Selenium	7782-49-2	LA-505-412	B	0.780		mg/kg	1	0.30	3.0	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100003
SAF#
Sample ID B26CD4

Matrix SOIL
Sampled 07/29/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.11		mg/kg	1	0.11	1.1	01/16/11
Antimony	7440-36-0	LA-505-412	U	<0.33		mg/kg	1	0.33	3.3	01/16/11
Arsenic	7440-38-2	LA-505-412	B	3.52		mg/kg	1	0.44	4.4	01/16/11
Selenium	7782-49-2	LA-505-412	B	0.787		mg/kg	1	0.33	3.3	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100004
SAF#
Sample ID B26JK6

Matrix SOIL
Sampled 07/19/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.086		mg/kg	1	0.086	0.86	01/16/11
Cadmium	7440-43-9	LA-505-412	U	<0.086		mg/kg	1	0.086	0.86	01/16/11
Lead	7439-92-1	LA-505-412		4.05		mg/kg	1	0.086	0.86	01/16/11
Thallium	7440-28-0	LA-505-412	U	<0.086		mg/kg	1	0.086	0.43	01/16/11
Arsenic	7440-38-2	LA-505-412	B	3.12		mg/kg	1	0.35	3.5	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.01		mg/kg	1	0.26	2.6	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100005
SAF#
Sample ID B26JK7

Matrix SOIL
Sampled 07/19/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.11		mg/kg	1	0.11	1.1	01/16/11
Cadmium	7440-43-9	LA-505-412	U	<0.11		mg/kg	1	0.11	1.1	01/16/11
Lead	7439-92-1	LA-505-412		4.42		mg/kg	1	0.11	1.1	01/16/11
Thallium	7440-28-0	LA-505-412	U	<0.11		mg/kg	1	0.11	0.53	01/16/11
Arsenic	7440-38-2	LA-505-412	B	3.77		mg/kg	1	0.42	4.2	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.31		mg/kg	1	0.32	3.2	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100006
SAF#
Sample ID B29612

Matrix SOIL
Sampled 07/20/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.10		mg/kg	1	0.10	1.0	01/16/11
Cadmium	7440-43-9	LA-505-412	U	<0.10		mg/kg	1	0.10	1.0	01/16/11
Lead	7439-92-1	LA-505-412		6.67		mg/kg	1	0.10	1.0	01/16/11
Thallium	7440-28-0	LA-505-412	U	<0.10		mg/kg	1	0.10	0.51	01/16/11
Arsenic	7440-38-2	LA-505-412		7.37		mg/kg	1	0.41	4.1	01/16/11
Selenium	7782-49-2	LA-505-412	B	2.02		mg/kg	1	0.31	3.1	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100007
SAF#
Sample ID B26CC4

Matrix SOIL
Sampled 07/21/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.11		mg/kg	1	0.11	1.1	01/16/11
Cadmium	7440-43-9	LA-505-412	U	<0.11		mg/kg	1	0.11	1.1	01/16/11
Lead	7439-92-1	LA-505-412		2.98		mg/kg	1	0.11	1.1	01/16/11
Thallium	7440-28-0	LA-505-412	U	<0.11		mg/kg	1	0.11	0.53	01/16/11
Arsenic	7440-38-2	LA-505-412	B	3.14		mg/kg	1	0.42	4.2	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.01		mg/kg	1	0.32	3.2	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100008
SAF#
Sample ID B29613

Matrix SOIL
Sampled 07/21/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.099		mg/kg	1	0.099	0.99	01/16/11
Cadmium	7440-43-9	LA-505-412	U	<0.099		mg/kg	1	0.099	0.99	01/16/11
Lead	7439-92-1	LA-505-412		3.71		mg/kg	1	0.099	0.99	01/16/11
Thallium	7440-28-0	LA-505-412	U	<0.099		mg/kg	1	0.099	0.50	01/16/11
Arsenic	7440-38-2	LA-505-412		15.3		mg/kg	1	0.40	4.0	01/16/11
Selenium	7782-49-2	LA-505-412	B	0.796		mg/kg	1	0.30	3.0	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100009
SAF#
Sample ID B26PH0

Matrix SOIL
Sampled 07/27/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.10		mg/kg	1	0.10	1.0	01/16/11
Cadmium	7440-43-9	LA-505-412	U	<0.10		mg/kg	1	0.10	1.0	01/16/11
Lead	7439-92-1	LA-505-412		3.71		mg/kg	1	0.10	1.0	01/16/11
Thallium	7440-28-0	LA-505-412	U	<0.10		mg/kg	1	0.10	0.51	01/16/11
Arsenic	7440-38-2	LA-505-412	B	2.57		mg/kg	1	0.41	4.1	01/16/11
Selenium	7782-49-2	LA-505-412	B	0.874		mg/kg	1	0.30	3.0	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100010
SAF#
Sample ID B26PH1

Matrix SOIL
Sampled 07/28/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.11		mg/kg	1	0.11	1.1	01/16/11
Cadmium	7440-43-9	LA-505-412	U	<0.11		mg/kg	1	0.11	1.1	01/16/11
Lead	7439-92-1	LA-505-412		3.70		mg/kg	1	0.11	1.1	01/16/11
Thallium	7440-28-0	LA-505-412	U	<0.11		mg/kg	1	0.11	0.53	01/16/11
Arsenic	7440-38-2	LA-505-412	B	3.73		mg/kg	1	0.42	4.2	01/16/11
Selenium	7782-49-2	LA-505-412	B	0.570		mg/kg	1	0.32	3.2	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100011
SAF#
Sample ID B26PH2

Matrix SOIL
Sampled 07/28/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.10		mg/kg	1	0.10	1.0	01/16/11
Cadmium	7440-43-9	LA-505-412	B	0.100		mg/kg	1	0.10	1.0	01/16/11
Lead	7439-92-1	LA-505-412		4.72		mg/kg	1	0.10	1.0	01/16/11
Thallium	7440-28-0	LA-505-412	U	<0.10		mg/kg	1	0.10	0.52	01/16/11
Arsenic	7440-38-2	LA-505-412		5.11		mg/kg	1	0.42	4.2	01/16/11
Selenium	7782-49-2	LA-505-412	B	0.917		mg/kg	1	0.31	3.1	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100012
SAF#
Sample ID B26JL0

Matrix SOIL
Sampled 08/17/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.098		mg/kg	1	0.098	0.98	01/16/11
Cadmium	7440-43-9	LA-505-412	B	0.105		mg/kg	1	0.098	0.98	01/16/11
Lead	7439-92-1	LA-505-412		6.38		mg/kg	1	0.098	0.98	01/16/11
Thallium	7440-28-0	LA-505-412	U	<0.098		mg/kg	1	0.098	0.49	01/16/11
Arsenic	7440-38-2	LA-505-412		5.64		mg/kg	1	0.39	3.9	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.45		mg/kg	1	0.29	2.9	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100013
SAF#
Sample ID B26JL1

Matrix SOIL
Sampled 08/17/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.10		mg/kg	1	0.10	1.0	01/16/11
Cadmium	7440-43-9	LA-505-412	U	<0.10		mg/kg	1	0.10	1.0	01/16/11
Lead	7439-92-1	LA-505-412		6.79		mg/kg	1	0.10	1.0	01/16/11
Thallium	7440-28-0	LA-505-412	U	<0.10		mg/kg	1	0.10	0.52	01/16/11
Arsenic	7440-38-2	LA-505-412		6.73		mg/kg	1	0.41	4.1	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.42		mg/kg	1	0.31	3.1	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100014
SAF#
Sample ID B26C59

Matrix SOIL
Sampled 08/24/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.099		mg/kg	1	0.099	0.99	01/16/11
Cadmium	7440-43-9	LA-505-412	U	<0.099		mg/kg	1	0.099	0.99	01/16/11
Lead	7439-92-1	LA-505-412		3.91		mg/kg	1	0.099	0.99	01/16/11
Thallium	7440-28-0	LA-505-412	U	<0.099		mg/kg	1	0.099	0.50	01/16/11
Arsenic	7440-38-2	LA-505-412		4.07		mg/kg	1	0.40	4.0	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.05		mg/kg	1	0.30	3.0	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100015
SAF#
Sample ID B26C47

Matrix SOIL
Sampled 08/18/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.10		mg/kg	1	0.10	1.0	01/16/11
Arsenic	7440-38-2	LA-505-412		4.98		mg/kg	1	0.41	4.1	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.05		mg/kg	1	0.31	3.1	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100016
SAF#
Sample ID B26C51

Matrix SOIL
Sampled 08/18/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.11		mg/kg	1	0.11	1.1	01/16/11
Arsenic	7440-38-2	LA-505-412	B	3.45		mg/kg	1	0.42	4.2	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.08		mg/kg	1	0.32	3.2	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100017
SAF#
Sample ID B26C53

Matrix SOIL
Sampled 08/19/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.096		mg/kg	1	0.096	0.96	01/16/11
Arsenic	7440-38-2	LA-505-412	B	2.28		mg/kg	1	0.38	3.8	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.30		mg/kg	1	0.29	2.9	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100018
SAF#
Sample ID B26C55

Matrix SOIL
Sampled 08/19/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.097		mg/kg	1	0.097	0.97	01/16/11
Arsenic	7440-38-2	LA-505-412	B	2.86		mg/kg	1	0.39	3.9	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.38		mg/kg	1	0.29	2.9	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100019
SAF#
Sample ID B26C57

Matrix SOIL
Sampled 08/23/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.084		mg/kg	1	0.084	0.84	01/16/11
Arsenic	7440-38-2	LA-505-412		4.46		mg/kg	1	0.34	3.4	01/16/11
Selenium	7782-49-2	LA-505-412	B	0.968		mg/kg	1	0.25	2.5	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Sample # 111100020
SAF#
Sample ID B26C61

Matrix SOIL
Sampled 08/25/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
ICPMS Prep										**01/12/11**
ICP-MS										
Silver	7440-22-4	LA-505-412	U	<0.092		mg/kg	1	0.092	0.92	01/16/11
Arsenic	7440-38-2	LA-505-412	B	3.12		mg/kg	1	0.37	3.7	01/16/11
Selenium	7782-49-2	LA-505-412	B	1.10		mg/kg	1	0.28	2.8	01/16/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the PQL(or EQL)but >= the IDL/MDL(Inorganic)
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
E - Analyte is an estimate, see comment section.
N - MS and/or MSD recovery outside control limits.

U - Analyzed for but not detected above limiting criteria.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100001
SAF#
Sample ID B26CD0

Matrix SOIL
Sampled 07/21/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		92		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100002
SAF#
Sample ID B26CD2

Matrix SOIL
Sampled 07/27/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		96		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100003
SAF#
Sample ID B26CD4

Matrix SOIL
Sampled 07/29/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		99		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100004
SAF#
Sample ID B26JK6

Matrix SOIL
Sampled 07/19/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		98		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100005
SAF#
Sample ID B26JK7

Matrix SOIL
Sampled 07/19/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		99		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100006
SAF#
Sample ID B29612

Matrix SOIL
Sampled 07/20/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		95		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100007
SAF#
Sample ID B26CC4

Matrix SOIL
Sampled 07/21/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		97		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100008
SAF#
Sample ID B29613

Matrix SOIL
Sampled 07/21/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		97		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100009
SAF#
Sample ID B26PH0

Matrix SOIL
Sampled 07/27/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		97		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100010
SAF#
Sample ID B26PH1

Matrix SOIL
Sampled 07/28/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		97		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100011
SAF#
Sample ID B26PH2

Matrix SOIL
Sampled 07/28/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		95		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100012
SAF#
Sample ID B26JL0

Matrix SOIL
Sampled 08/17/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		99		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100013
SAF#
Sample ID B26JL1

Matrix SOIL
Sampled 08/17/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		99		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100014
SAF#
Sample ID B26C59

Matrix SOIL
Sampled 08/24/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		97		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100015
SAF#
Sample ID B26C47

Matrix SOIL
Sampled 08/18/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		94		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100016
SAF#
Sample ID B26C51

Matrix SOIL
Sampled 08/18/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		96		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100017
SAF#
Sample ID B26C53

Matrix SOIL
Sampled 08/19/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		96		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100018
SAF#
Sample ID B26C55

Matrix SOIL
Sampled 08/19/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		92		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100019
SAF#
Sample ID B26C57

Matrix SOIL
Sampled 08/23/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		95		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

WSCF Analytical Results Report

Attention Melissa Garrard
Department Wet Chemistry

Group # WSCF111100

Sample # 111100020
SAF#
Sample ID B26C61

Matrix SOIL
Sampled 08/25/10
Received 01/11/11

Test Performed	CAS #	Method	RQ	Result	TP Err	Units	DF	MDL	PQL	Analyzed
Total Residue										**01/14/11**
Total Residue										
Percent Solids	PCTSOLIDS	LA-519-412		98		percent	1			01/14/11

MDL = Minimum Detection
RQ = Result Qualifier
TP Err = Total Propagated
DF = Dilution Factor
+ - Indicates more than nine qualifier

B - Analyte < the RDL but >= the IDL/MDL.
C - Analyte was found in the Associated Blank. (Inorganic)
D - Analyte was reported at a secondary diltution factor.
N - MS and/or MSD sample recovery outside control limits.
U - Analyzed for but not detected above limiting criteria.

N - Spike Recovery is Outside Control Limits.
X,Y or Z - See comment detail and/or narrative.
PQL is equivalent to Estimated Quantitation Limit (EQL)

Quality Control Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

QC Batch 173809 **Test** ICP-2008 MS All possible metal
Associated Samples 111100001, 111100002, 111100003, 111100004, 111100005, 111100006, 111100007, 111100008, 111100009, 111100010, 111100011, 111100012, 111100013, 111100014, 111100015, 111100016, 111100017, 111100018, 111100019, 111100020

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
BLANK			**QC Sample #46100**							
Silver	7440-22-4		<0.10	ug/L					U	01/16/11
Antimony	7440-36-0		<0.30	ug/L					U	01/16/11
Cadmium	7440-43-9		<0.10	ug/L					U	01/16/11
Lead	7439-92-1		<0.10	ug/L					U	01/16/11
Thallium	7440-28-0		<0.050	ug/L					U	01/16/11
Arsenic	7440-38-2		<0.40	ug/L					U	01/16/11
Selenium	7782-49-2		<0.30	ug/L					U	01/16/11
LCS			**QC Sample #46101**							
Silver	7440-22-4		108	mg/kg	112	83 - 127				01/16/11
Antimony	7440-36-0		149	mg/kg	173.6	62 - 205				01/16/11
Cadmium	7440-43-9		77.7	mg/kg	122.6	76 - 129				01/16/11
Lead	7439-92-1		138	mg/kg	111.1	79 - 124				01/16/11
Thallium	7440-28-0		149	mg/kg	117.7	52 - 137				01/16/11
Arsenic	7440-38-2		132	mg/kg	105.2	79 - 125				01/16/11
Selenium	7782-49-2		170	mg/kg	110.6	82 - 133				01/16/11
MS			**QC Sample #46102**							
			Original	**111100001**						
Silver	7440-22-4	<0.11	101	mg/kg	101.7	70 - 130				01/16/11

Quality Control Report

Attention Melissa Garrard
Department Inorganic

Group # WSCF111100

Analyte	CAS #	Original Found	QC Found	Units	% Recov	Limits	RPD	RPD Limit	RQ	Analyzed
Antimony	7440-36-0	<0.32	92.6	mg/kg	93.1	70 - 130				01/16/11
Cadmium	7440-43-9		102	mg/kg	102.6	70 - 130				01/16/11
Lead	7439-92-1		100	mg/kg	101	70 - 130				01/16/11
Thallium	7440-28-0		98.9	mg/kg	99.5	70 - 130				01/16/11
Arsenic	7440-38-2	6.03	102	mg/kg	102.5	70 - 130				01/16/11
Selenium	7782-49-2	1.36	97.6	mg/kg	98.2	70 - 130				01/16/11
MSD			**QC Sample #46103**							
			Original	**111100001**				**Paired**	**46102**	
Silver	7440-22-4	<0.11	103	mg/kg	101.9	70 - 130	1.40	30		01/16/11
Antimony	7440-36-0	<0.32	88.4	mg/kg	87.8	70 - 130	4.70	30		01/16/11
Cadmium	7440-43-9		104	mg/kg	103	70 - 130	1.50	30		01/16/11
Lead	7439-92-1		102	mg/kg	101.5	70 - 130	1.60	30		01/16/11
Thallium	7440-28-0		101	mg/kg	100.4	70 - 130	2.10	30		01/16/11
Arsenic	7440-38-2	6.03	103	mg/kg	102.5	70 - 130	1.10	30		01/16/11
Selenium	7782-49-2	1.36	97.8	mg/kg	97.2	70 - 130	0.20	30		01/16/11

ATTACHMENT4

SAMPLE RECEIPT

Consisting of 7 pages
Including cover page

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

ACKNOWLEDGEMENT OF SAMPLES RECEIVED

WSCF Laboratory
PO Box 650 S3-30
Richland, WA 99352

ATTN: Melissa Garrard

Customer Code: WRPS
PO #:
Work Order #: 111100
Profile #: WRPS20100556
Proj. Mgr.:
Phone:

The following samples were received from you on 1/11/2011 9:45:00 AM. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample #	Sample ID	Matrix	Collected	Received
		Tests scheduled		
111100001	B26CD0	SOIL	7/21/2010 09:20	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100002	B26CD2	SOIL	7/27/2010 09:50	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100003	B26CD4	SOIL	7/29/2010 09:35	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100004	B26JK6	SOIL	7/19/2010 10:00	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100005	B26JK7	SOIL	7/19/2010 10:00	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100006	B29612	SOIL	7/20/2010 09:45	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100007	B26CC4	SOIL	7/21/2010 09:20	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100008	B29613	SOIL	7/21/2010 10:30	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100009	B26PH0	SOIL	7/27/2010 08:45	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100010	B26PH1	SOIL	7/28/2010 07:45	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100011	B26PH2	SOIL	7/28/2010 11:35	1/11/2011 09:45

Tuesday, January 11, 2011 7:12:00 PM Page 1 of 6 5007.2.1084.0

Sample Receipt

Waste Sampling and Characterization Facility
P.O. Box 1970 S3-30, Richland WA 99352
Phone: (509) 373-7004/FAX: (509) 373-7134

		2008-S; DRY-WEIGHT		
111100012	B26JL0	SOIL	8/17/2010 09:30	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100013	B26JL1	SOIL	8/17/2010 09:30	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100014	B26C59	SOIL	8/24/2010 10:30	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100015	B26C47	SOIL	8/18/2010 09:00	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100016	B26C51	SOIL	8/18/2010 11:30	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100017	B26C53	SOIL	8/19/2010 09:10	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100018	B26C55	SOIL	8/19/2010 10:30	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100019	B26C57	SOIL	8/23/2010 10:00	1/11/2011 09:45
		2008-S; DRY-WEIGHT		
111100020	B26C61	SOIL	8/25/2010 10:05	1/11/2011 09:45
		2008-S; DRY-WEIGHT		

Test Acronym Description

Test Acronym	Description
2008-S	ICP-MS (S)
DRY-WEIGHT	Dry Weight as Pct Moisture

Assembler

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20100556

Page 2 of 2

Collector: Ekstrom/Campbell Harris	Contact/Requestor: Jo Marie Johnson/Steve McKinney	Telephone No.: 372-9474 M.S.: 5-02 FAX
SAF No.: N/A	Sample Origin: C Farm 2010-2 Vadose	Purchase Order/Charge Code: Contract No 36612 Release 9
Project Title: C Farm CMA 2010-1	Logbook/ Work Package No.: N/A	Ice Chest No.: GWS-183 Temp.
Shipped To (Lab): WSCF	Method of Shipment: Govt. vehicle	Bill of Lading/Air Bill No.
Protocol: N/A 111100	Data Turnaround: per EMAIL Marisol Avila (15/21)	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B26CD0	001		7/21/10	9:20	1/amber glass	ICP-MS (Antimony only) RPP-PLAN-40564, Rev.2	
B26CD2	002		7/27/10	9:55	1/amber glass	ICP-MS (Antimony only) RPP-PLAN-40564, Rev.2	
B26CD4	003		7/29/10	9:35	1/amber glass	ICP-MS (Antimony only) RPP-PLAN-40564, Rev.2	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

REMARKS: Sample No. = OmniLIMS No.
B26CD0 = S11V004025
B26CD2 = S11V004026
B26CD4 = ~~S11V004027~~ S11V004027 RTSteele 1.11.11

SPECIAL INSTRUCTIONS — Hold Time

NOTE: 6 MONTH HOLD APPROACHING. SEE SAMPLE DATE. — 14 days

Send results to JO MARIE JOHNSON (Jo_M_Johnson@rl.gov) and Melissa Garrard (see SOW for e-mail address)
Contract 36612, rel. 9

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RTSteele	RTSteele		1.11.11 0917	L.D WALL	L.D.	L.D. Wall	1/11/11 0917
L.D. WALL	L.D.	L.D. Wall	1/11/11 0945	Victor			1/11/11 0945

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION — Disposal Method (e.g., Return to customer, per lab procedure, used in process) — Disposed By — Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-982 (03/05)

Assembler
N/A

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20100556
Page 1 of 2

Collector Hast[illegible] Portis	Contact/Requestor Jo Marie Johnson/Steve McKinney	Telephone No [illegible] MSIN T6-02 FAX
SAF No. N/A	Sample Origin C Farm 2010-2 Vadose	Purchase Order/Charge Code Contract 36612 Release 9
Project [illegible] C Farm	Logbook/ Work Package No. N/A	Ice Chest No. GWS-183 Temp.
Shipper WSCF	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No
Protocol N/A	Data Turnaround per EMAIL-Karisol Avila-(15/21)	Parts and Return No.

Sample No	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B26CD0	001		7/21/10	9:20	1/glass 125mL	ICP-MS(Silver,Selenium,Arsenic) RPP-PLAN-40564, Rev.2	
B26CD2	002		7/21/10	9:50	1/glass 125mL	ICP-MS(Silver,Selenium,Arsenic) RPP-PLAN-40564, Rev.2	
B26CD4	003		7/29/10	9:35	1/glass 125mL	ICP-MS(Silver,Selenium,Arsenic) RPP-PLAN-40564, Rev.2	
B26JK6	004		7/19/10	10:00	1/glass 125mL	ICP-MS(Silver,Cadmium,Selenium,Arsenic,Thallium,Lead) RPP-PLAN-40564, Rev.2	
B26JK7	005		7/19/10	10:00	1/glass 125mL	ICP-MS(Silver,Cadmium,Selenium,Arsenic,Thallium,Lead) RPP-PLAN-40564, Rev.2	
B29612	006		7/20/10	9:45	1/glass 125mL	ICP-MS(Silver,Cadmium,Selenium,Arsenic,Thallium,Lead) RPP-PLAN-40564, Rev.2	
B26CC4	007		7/21/10	9:20	1/glass 125mL	ICP-MS(Silver,Cadmium,Selenium,Arsenic,Thallium,Lead) RPP-PLAN-40564, Rev.2	
B29613	008		7/21/10	10:30	1/glass 125mL	ICP-MS(Silver,Cadmium,Selenium,Arsenic,Thallium,Lead) RPP-PLAN-40564, Rev.2	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

REMARKS: Sample No.= OmniLIMS No.
B26CD0 = S11V004010
B26CD2 = S11V004011
B26CD4 = S11V004012
B26JK6 = S11V004005
B26JK7 = S11V004006
B29612 = S11V004007
B26CC4 = S11V004008
Sample No.= OmniLIMS No.
B29613 = S11V004009

SPECIAL INSTRUCTIONS — Hold Time

NOTE: 6 MONTH HOLD APPROACHING. See Sample Date

Send results to Jo Marie Johnson (Jo_M_Johnson@rl.gov) and Melissa Garrard (see SOW for e-mail address)
Contract 36612, rel. 9

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RFSteele	RFSteele		1.11.11 0917	L.D WALL	L.D. Wall		1/11/11 0917
L.D WALL	L.D. Wall		1/11/11 0945	[illegible]	[illegible]		1/11/11 0945

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION — Disposal Method (e.g., Return to customer, per lab procedure, used in process) — Disposed By — Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20100545

Page 1 of 1

Assembler		
Collector	Contact/Requestor: Jo Marie Johnson/Steve McKinney	Telephone No. 372-9474 MSIN 56-32 FAX
SAF No: N/A	Sample Origin: BY Barrier Vadose	Purchase Order/Charge Code: Contract No. 36612 Release 9
Project: BY BARRIER	Logbook/ Work Package No.: N/A	Ice Chest No. GUS-183 Temp.
Shipped To (Lab): WSCF	Method of Shipment: Govt. vehicle	Bill of Lading/Air Bill No.
Protocol: N/A	Data Turnaround: per EMAIL-Marisol Avila (15/21)	Parts and Return No.

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B26PH0	009		7/27/10	8:45	1/glass 1/[illegible]	ICP-MS (Silver,Cadmium,Selenium,Arsenic,Thallium,Lead) RPP-PLAN-46652, Rev.1	
B26PH1	010		7/28/10	7:45	1/glass 1/[illegible]	ICP-MS (Silver,Cadmium,Selenium,Arsenic,Thallium,Lead) RPP-PLAN-46652, Rev.1	
B26PH2	011		7/28/10	11:35	1/glass 1/[illegible]	ICP-MS (Silver,Cadmium,Selenium,Arsenic,Thallium,Lead) RPP-PLAN-46652, Rev.1	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

REMARKS: Sample No. - OmniLIMS No.
B26PH0 - SILVC04002
B26PH1 - SILVC04003
B26PH2 - SILVC04004

SPECIAL INSTRUCTIONS — Hold Time

NOTE: 6 MONTH HOLD APPROACHING. SEE SAMPLE DATE.

Send results to Jo Marie Johnson (Jo_M_Johnson@rl.gov) and Melissa Garfarc (see SOW for e-mail address) Contract 36612, rel. 9

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RT Steele	RT Steele		1.11.11 0917	L.D. WALL	L.D. Wall		1/11/11 0917
L.D. WALL	L.D. Wall		1/11/11 0945	[illegible]			1/11/11 0945

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION: Disposal Method (e.g., Return to customer, per lab procedure, used in process) — Disposed By — Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

Sample Receipt

Chain of Custody

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. No. 20100660

Page 1 of 1

Assembler: N/A		
Collector: Ekstrom/Campbell/Harris	Contact/Requestor: Jo Marie Johnson/Steve Atkinson	Telephone No.: 372-9474 MSIN: FAX:
SAF No.: N/A	Sample Origin: C Farm 2010-2-Madose	Purchase Order/Charge Code: Contract 36612 Release 9
Project Title: C Farm CMR 2010-2	Logbook/ Work Package No.: N/A	Ice Chest No.: 6005-183 Temp.:
Shipped To (Lab): WSCF	Method of Shipment: SAMPLE TRUCK	Bill of Lading/Air Bill No.:
Protocol: N/A	Data Turnaround: per EMAIL-Marisol Avila-(15/21)	Parts and Return No.:

Sample No.	Lab ID	*	Date	Time	No./Type Container	Sample Analysis	Preservative
B26JL0	012		8/17/10	9:30	1/glass 125	ICP-MS (Silver,Cadmium,Selenium,Arsenic,Thallium,Lead) RPP-PLAN-40564,Rev.2	
B26JL1	013		8/17/10	9:30	1/glass 125	ICP-MS (Silver,Cadmium,Selenium,Arsenic,Thallium,Lead) RPP-PLAN-40564,Rev.2	
B26C59	014		8/24/10	10:30	1/glass 125	ICP-MS (Silver,Cadmium,Selenium,Arsenic,Thallium,Lead) RPP-PLAN-40564,Rev.2	
B26C47	015		8/18/10	9:00	1/glass 125	ICP-MS (Silver,Selenium,Arsenic) RPP-PLAN-40564,Rev.2	
B26C51	016		8/18/10	11:30	1/glass 125	ICP-MS (Silver,Selenium,Arsenic) RPP-PLAN-40564,Rev.2	
B26C53	017		8/19/10	9:10	1/glass 125	ICP-MS (Silver,Selenium,Arsenic) RPP-PLAN-40564,Rev.2	
B26C55	018		8/19/10	10:30	1/glass 125	ICP-MS (Silver,Selenium,Arsenic) RPP-PLAN-40564,Rev.2	
B26C57	019		8/23/10	10:00	1/glass 125	ICP-MS (Silver,Selenium,Arsenic) RPP-PLAN-40564,Rev.2	
B26C61	020		8/25/10	10:05	1/glass 125	ICP-MS (Silver,Selenium,Arsenic) RPP-PLAN-40564,Rev.2	

POSSIBLE SAMPLE HAZARDS/REMARKS (List all known wastes) MSDS ○ Yes ◉ No

REMARKS: Sample No. = OmniLIMS No.
B26JL0 = S11V004014
B26JL1 = S11V004015
B26C59 = S11V004016
B26C47 = S11V004017
B26C51 = S11V004018
B26C53 = S11V004021
B26C55 = S11V004022
Sample No. = OmniLIMS No.
B26C57 = S11V004023
B26C61 = S11V004024

SPECIAL INSTRUCTIONS

NOTE: 6 MONTH HOLD APPROACHING. SEE SAMPLE DATE.

Send results to Jo Marie Johnson (Jo_M_Johnson@rl.gov) and Melissa Garrard (see SOW for e-mail address) Contract 36612, rel. 9

Hold Time

Relinquished By	Print	Sign	Date/Time	Received By	Print	Sign	Date/Time
RTSteele	RTSteele	1-11-11	0917	L.D.WALL	L.D.Wall		1/11/11 0917
L.D WALL	L.D. Wall		1/11/11 0945	Victor Singh			1/11/11 0945
Relinquished By			Date/Time	Received By			Date/Time
Relinquished By			Date/Time	Received By			Date/Time

Matrix*

S	= Soil	DL	= Drum Liquids
SE	= Sediment	T	= Tissue
SO	= Solid	WI	= Wipe
SL	= Sludge	L	= Liquid
W	= Water	V	= Vegetation
O	= Oil	VA	= Vapor
A	= Air	X	= Other
DS	= Drum Solids		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By	Date/Time

All samples containing hazardous materials shall be picked up by requestor and returned to parent container or site of origin.

A-6003-962 (03/05)

DISTRIBUTION SHEET

To	From	
S. J. Eberline	G. P. Ritenour	Page 1 of 1
Project Title/Work Order		Date 1/4/12
FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLE C7682 IN SUPPORT OF RCRA SOIL CHARACTERIZATION		EDT No. N/A
		ECN No. N/A

Name	MSIN	Text With All Attach.	Text Only	Attach./ Appendix Only	EDT/ECN Only
G. P. Ritenour	T6-10	X			
S. J. Eberlein	E6-31	X			
M. P. Connelly	E6-31	X			
H. A. Sydnor	E6-31	X			
J. M. Johnson	T6-02	X			
S. M. McKinney	T6-02	X			
H. L. Anastos	T6-07	X			
A. Shrum	E6-31	X			
J. R. Prilucik	T6-02	X			
C. P. Mangano	H8-51	X			
S. A. Lynch	R3-50	X			
DOE Reading Room	H2-53	H			
R. W. Lober	H6-60	X			