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Final Report Analytical Report for samples from Waste Management Area C for Core Holes: C6392, C6400, C6402, C6404 and C6406 in Support of RCRA Soil Characterization

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FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLES: C6392, C6400, C6402 C6404, AND C6406, IN SUPPORT OF RCRA SOIL CHARATERICZATION

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222-S LABORATORY

FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLES: C6392, C6400, C6402 C6404, AND C6406 IN SUPPORT OF RCRA SOIL CHARATERICZATION

1.0 INTRODUCTION

This final report presents the results for the samples taken from Waste Management Area C between March 11th and June 15th, 2009. 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 3877, *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); *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods* (SW-846); 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 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	Tentatively Identified Compounds (TIC) for Organic Analyses
Attachment 5	Correspondence
Attachment 6	Receipt Paperwork

This report also contains the following appendices.

Appendix A	Geologic Report
Appendix B	Analytical Raw Data

2.0 SAMPLE RECEIPT AND BREAKDOWN

2.1.1 Sample Receipt

A total of 25 core intervals from five core holes along with two equipment blanks and three trip blanks were received by 222-S beginning March 11th and ending June 15th, 2009. The samples were delivered in a cooler with ice or, in the case of the volatile organic samples, in a freezer. The temperature of a randomly selected sample from each cooler or freezer was measured and recorded on the chain of custody. Laboratory sample receipt personnel failed to record the receipt temperature for four core intervals:

- C6404 - 6 ft. to 8 ft
- C6404 - 10 ft. to 12 ft.
- C6406 - 54.5 ft. to 56.5 ft.
- C6406 - 59 ft. to 61 ft.

This was caused partially by the confusion from the delivery of multiple core projects at the same time and failure of laboratory personnel to follow the sample receipt procedure. These issues have been addressed and corrective measures have been taken. Many of the samples received were outside the required temperature ranges. This was due to the fact that these samples had not been in the cooler or freezer long enough to reach equilibrium. This can be verified, in most cases, by comparing the receipt time with the sampling time. The cooler and freezer walls were sometimes measured and were within the required temperature range. This temperature was not generally recorded since this measurement is not called out in the procedure. For future projects, the temperature of a temperature blank or the side of the cooler or freezer will be measured and recorded as described in SW-846.

2.1.2 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. Nine core intervals had less than full recovery (see Attachment 2 and Attachment 6). 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 Appendix A. Provided sufficient samples existed, the composite for each core interval was analyzed as described in the SAP and FSAP. WRPS shipped a subsample of each composite to an offsite laboratory, when sufficient sample was available. The results of these analyses are not discussed in this report.

The 10-ft. to 12-ft. interval from core hole C6404 consisted of only VOA vial samples. No core liners were received for this interval. A limited suite for radiochemical analyses was performed using the methanol-preserved VOA sample. No other analyses were performed.

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 4. 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 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 SW846-3050B.

"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 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 that are defined as follows:

"B" 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 5% of the reported sample result.

"J" indicates 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 or sample activity with a counting uncertainty greater than 30%.

"N" indicates a TIC which has been named.

"Q" indicates that the result is qualitative only.

"T" indicated a TIC.

"U" indicates that the reported result is less than the calculated detection limit.

"Y" indicates that the percent difference (%D) for the continuing calibration verification standard (CCV) was greater than -20%.

"X" indicates that the initial calibration verification (ICV) standard was outside the range specified in the QAPP.

"a" indicates that the laboratory control sample (LCS) was outside of the specified range in the QAPP or SAP.

"b" indicates that the matrix spike (MS) was outside of the specified range in the QAPP or SAP.

"c" indicates that the relative percent difference (RPD) between the sample and the duplicate is greater than 30%.

"e" indicates that the %D between the sample result and the serial dilution exceeded 10%.

"f" indicates that the MS failed and the serial dilution passed.

Manual calculations using rounded results from the Data Summary Report 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 10 grams of sample were digested, filtered, and diluted to a final volume of 100 or 125 mL. This digestion was used for all radiochemical analyses except tritium, ^{14}C, and ^{129}I. This digestion is a leach of the acid soluble species only.

3.1.2 SW846-3050B - Acid Digestion-Heating Block

This acid digestion follows SW846-3050B using a heating block and nitric and hydrochloric acids. Approximately 0.25 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) analysis. 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.

3.1.3 Water Digestion

A water digestion or leach was prepared for the anions by ion chromatography, ^{14}C, and tritium 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.

3.2 INORGANIC ANALYSES

3.2.1 Cyanide

The cyanide analysis was performed on direct subsamples of the liner composite samples. All analyses met the SW846 holding time of 14 days except for sample B1YT71 (S09V000171). The holding time was missed due to the need for reanalysis, which was caused by quality control (QC) failures during the first analysis. The sample was initially analyzed within the holding time, but the final analysis, which passed all QC requirements, was 1 day past the holding. The sample result was the same for both analyses. The laboratory believes there was no effect on the final result from this missed holding time. There was no required reporting limit in the SAP for cyanide. The target detection limit was 0.5 μg/g, which is at least an order of magnitude lower than the current laboratory method (lachet micro-distillation) can reach.

3.2.2 Sulfide

Sulfide analysis was performed on direct subsamples of the liner composite samples. All analysis met the SW846 holding time of 7 days except for samples B1YT92 (S09V000382), B1YTH1

(S09V000626), and B1YTH3 (S09V000642). The first holding time was missed due to the lack of analytical personnel resources. The other two missed holding times were caused by the inability of the analytical personnel to access the laboratory due the lack of facility support, which is beyond the control of analytical personnel and their management. There was no required reporting limit in the SAP for sulfide. The target detection limit was 5 µg/g. Three sample results had adjusted MDLs of 5 µg/g. The rest were between 6 µg/g and 8 µg/g.

Batches 13951, 13952, 14332, 14517, 14598, and 14778: There were no notable issues with these batches and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 14184: The RPD between the sample and duplicate exceeded the required 30% in the SAP at 36%. Since the sample result was below the quantitation limit, this criterion is not applicable. All QC requirements in the FSAP, SAP, and the QAPP were met for this batch.

Batch 14354: The RPD between the sample and duplicate exceeded the required 30% in the SAP at 32%. Since the sample result was below the quantitation limit, this criterion is not applicable. All QC requirements in the FSAP, SAP, and the QAPP were met for this batch.

3.2.3 pH Analysis

The pH analysis was performed on the liner composite samples. 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 immediately after the water leach was performed, but the sampling to analysis date varied from 2 to 20 days (see Attachment 3). There is no correlation between pH results and days to analysis, and the results fall within an expected range for alkaline soils. This indicates that the large variation in time has no apparent effect on the results. However, the client's expectation was that analysis would be performed within 14 days. For future projects, the analysis will be performed in less time.

3.2.4 Mercury

Analysis for mercury was performed on digested subsamples of the liner composite samples. All results met the QC requirements in the FSAP, SAP, and QAPP. All analyses met the holding time of 28 days, except for samples B1YT80 (S09V000174), B1YT83 (S09V000175), and B1YT98 (S09V000392). This was apparently the result of an oversight error by the analytical staff. The laboratory is working on improvements in holding time expiration tracking.

This analysis met the required and target detection limits except for three samples: B1YT71 (S09V000171), B1YT74 (S09V000172), and B1YT77 (S09V000173). These sample results met the target detection limit of 0.2 mg/Kg but were twice the required detection limit of 0.01 mg/Kg.

3.2.5 Ion Chromatography - Ammonium

Analysis for NH_4^+ was performed using a distillation preparation of the liner composite samples. The SAP lists an administrative holding time of 7 days. The laboratory believes that after

distillation and preservation, the holding is 28 days based on EPA drinking water and waste water holding times for preserved samples. There is no regulatory holding time limit promulgated for ammonium in soil. Four samples were analyzed outside of the administrative 7-day holding time: B1YT71 (S09V000219), B1YT92 (S09V000425), B1YTH1 (S09V000632), and B1YTH3 (S09V000648). This was apparently the result of an oversight error by the analytical staff. The laboratory is working on improvements in holding time expiration tracking. These analyses met the target detection limit listed in the SAP. There was no required reporting limit in the SAP or FSAP for ammonium.

Batches 14073, 14226, 14237, and 14498: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 14301: The preparation blank had a result above the MDL but below the quantitation limit. Since the blank result was more than 5% of the sample, a "B" flag has been applied to the associated results. Since both the sample and the blank results were below the quantitation limit, reanalysis was not required. All QC requirements in the FSAP, SAP, and the QAPP were met for this batch.

Batch 14710: Samples B1YTF4 (S09V000599) and B1YTF4 (S09V000615) were analyzed with an LCS and MS, which used a standard that was 2 days past the expiration date. Since the recoveries of the expired standards were within 95% to 100% of the expected value, and the analytical batch contained other valid standards with acceptable recoveries, it is the laboratory's opinion that the data quality was not affected. Therefore, no reanalysis was requested. One of the two preparation blanks contained in this analytical batch had an ammonium result slightly above the MDL. Since the associated samples were non-detect, there is no effect on the data. All QC requirements in the FSAP, SAP, and the QAPP were met for this batch.

Batch 14840: The preparation blank had a result above the MDL but below the quantitation limit. Since the blank result was more than 5% of the sample results, a "B" flag has been applied to the associated results. Since the blank result was below the quantitation limit, reanalysis was not required. All QC requirements in the FSAP, SAP, and the QAPP were met for this batch.

Batch 14659: The preparation blank had a result above the MDL but below the quantitation limit. Since the blank result was more than 5% of the sample results, a "B" flag has been applied to the associated results. Since both the sample and the blank results were below the quantitation limit, reanalysis was not required. All QC requirements in the FSAP, SAP, and the QAPP were met for this batch.

3.2.6 Ion Chromatography – Anions and Small Organic Acids

Ion chromatography analysis was performed on a water digest of subsamples from all soil composite samples except for B20XV5. This was due to insufficient sample volume. This sample was the 6-ft. to 8-ft. interval from core hole C6402, which was a retake of the same interval in core hole C6404. The laboratory met all the required and target detection limits. All analyses were within the applicable holding time. All sample spikes used in this analysis are post digestion spikes. Current laboratory procedures and practice were developed for the analysis of concentrated waste, which typically does not include the use of predigestion spikes for this

analysis. The laboratory will change to predigestion spike for future projects. In general, these samples experienced multiple RPD failures in every batch. All samples were reanalyzed and little improvement was seen. Other analyses also experienced high RPDs. The exact cause of the IC failures is unknown at this time, but it is matrix related. The "c" has been applied to all samples in the batch, not just the sample used for the duplicate analysis.

Batch 16700: Nitrite and nitrate were present in the preparation blank at levels below the quantitation limit; therefore, reanalysis was not required. Sample results have been flagged with "B" when appropriate. The RPD for formate and oxalate exceeded the required 30%. However, since the results for these analytes were below the quantitation limit, the criterion does not apply. The RPD for fluoride, acetate, sulfate, nitrate, and phosphate exceeded the 30% requirement, and results were all above the quantitation limit. The sample results have been flagged with a "c."

Batch 16701: The preparation blank result for chloride was above the MDL but less than the quantitation limit. Therefore, the data quality was not affected and reanalysis was not required. The samples were "B" flagged as appropriate. The closing continuing calibration blank (CCB) result for formate was above the MDL but less than the quantitation limit. Therefore, the data quality was not affected and reanalysis was not required. The samples were "B" flagged as appropriate. The RPD for nitrite and oxalate exceeded the required 30%. However, since the results for these analytes were below the quantitation limit, the criterion does not apply. The RPD for sulfate, nitrate, and chloride exceeded the 30% requirement, and results were all above the quantitation limit. The sample results have been flagged with a "c."

Batch 16744: The RPD for acetate exceeded the required 30%. Since the result for this analyte was below the quantitation limit, the criterion does not apply. The RPD for nitrite exceeded the 30% requirement, and all results were above the quantitation limit. The sample results have been flagged with a "c."

Batch 17027: The RPD for oxalate and formate exceeded the required 30%. Since the result for these analytes were below the quantitation limit, the criterion does not apply. The RPD for acetate, nitrate, nitrite, and sulfate exceeded the 30% requirement, and results were all above the quantitation limit. The sample results have been flagged with a "c."

3.2.7 Inductively Coupled Plasma/Atomic Emission Spectroscopy

The ICP/AES analysis was performed on an acid-digest (SW846-3050B) of all liner composite samples. In general, the ICP/AES analysis experienced repeated failures for the duplicate RPDs, serial dilutions, and matrix spike recoveries. The laboratory believes these failures are due to interferences from high levels of iron and aluminum, and sample inhomogeneity. This is supported by the fact that there were no post digestion spike failures. The interference from the iron and aluminum appeared to cause signal suppression in most cases. The impact of this interference could be reduced by reanalyzing the samples using smaller aliquots or greater dilution, but this would cause some primary elements to be reported as estimated or non-detected above the required detection limits. This was discussed with the client, who agreed that reanalysis would not improve the overall analytical results (see Attachment 5). Additionally, it was noted that some of the secondary analytes experienced LCS failures and that reanalysis was not required for secondary elements. In particular, the digestion method used, which was an acid

leach, does not produce consistent results for silicon. The amount of silicon leached from a highly siliceous material, like soil, is not consistent when using an acid leach. Also, the LCS recoveries are somewhat variable and may be related to the concentration and types of acid used. Silicon is not listed with other elements in SW846-3050B, section 1.1, under "Scope and Application" for the method.

The ICP/AES analysis was unable to obtain the required detection limit for antimony, arsenic, cadmium, lead, nickel, selenium, silver, thallium, and vanadium. These elements have been reported from separate ICP/MS analyses. Additionally, some chromium and cobalt results were from these same ICP/MS analyses. Total uranium has been reported by the ICP/AES analysis but did not meet the required detection limits in the FSAP. Since the isotopic uranium analysis by ICP/MS met the required detection limit for ^{238}U, the overall data usability was not affected. For all other metals reported by ICP/AES, all target and required detection limits were met or the results were above the quantitation limit, with the exception of one sample. Sample B1YT71 from core C6392 failed to meet the required detection limit for molybdenum and the target detection limits for beryllium, copper, and molybdenum.

Batch 15041: The low level standard (LLS) for potassium failed low at 69%. This indicates that results near the LLS could be biased low. Since all potassium results were near the mid-range of the calibration, the data was not affected by the low LLS recovery. The MS recoveries for aluminum, calcium, and iron failed to meet the FSAP criterion. Since the sample concentrations of these analytes exceeded four times the spike level, the MS recovery criterion does not apply. The MS recovery for silicon exceeded the ±25% criterion in the SAP and FSAP at 311%. The laboratory believes that the failure is due to the inconsistent leaching of silicon discussed previously. The associated sample results have been flagged with a "b."

Batch 16002: The MS recoveries for aluminum, calcium, iron, and magnesium failed to meet the FSAP criterion. Since the sample concentrations of these analytes exceeded four times the spike level, the MS recovery criterion does not apply. The MS recovery for sodium, tantalum, titanium, and potassium exceeded the ±25% criterion in the SAP and FSAP, and the results have been flagged with a "b." The laboratory believes this is a result of matrix interference due to the high levels of other elements in these samples and sample inhomogeneity. This was discussed with the client (see Attachment 5), and reanalysis was deemed unnecessary. The MS recovery for tantalum was less than 1%. The laboratory believes this was due to an issue with the standard. Since tantalum is not a required analyte, reanalysis was not required. Zinc was detected in the preparation blank above the MDL but less than the quantitation limit. Since the result was less than 5% of the sample result, the data quality was not affected.

Batch 16229: Calcium was present in the preparation blank but was less than 5% of the lowest sample result. The MS recoveries for aluminum, calcium, iron, silicon, titanium, and magnesium failed to meet the FSAP criterion. Since the sample concentrations of these analytes exceeded four times the spike level, the MS recovery criterion does not apply. The serial dilution for manganese and sodium failed the 10% requirement at 19% and 12%, respectively. The results have been flagged with an "e." This could indicate that the parent sample result is biased low due to matrix interference.

Batch 16778: The ICV standard recovery for rubidium was outside the 90% to 110% criterion at 112%. The sample results have been flagged with an "X." Reanalysis was not required since rubidium is a secondary analyte. The results for palladium and rubidium in the CCBs and initial calibration standard (ICB) were above MDL but below the quantitation limits. A "B" flag was applied since the blank result was greater than 5% of the sample results. Reanalysis was not required because all results (blank and samples) were below the quantitation limit. The LLS for rubidium, potassium, and palladium exceeded the 130% recovery criterion at 237%, 134%, and 137%, respectively. The palladium and rubidium results should be considered biased high. Since these are secondary analytes, reanalysis is not required. All potassium results are above the ICV and CCV level. Therefore, the slightly high recovery of the LLS does not impact the data quality. The LCS for silicon failed low at 52%. Silicon results should be considered biased low and are flagged with an "a." The preparation blank results for calcium and zinc were above the MDL but below the quantitation limit and less than 5% of the sample result. Therefore, the sample results were not affected. The duplicate RPD for praseodymium exceeded the 30% requirement in the SAP and FSAP. Since the sample result was below the quantitation limit, this criterion does not apply. The MS recoveries for aluminum, calcium, iron, and magnesium were outside the ±25% requirement in the SAPs. However, since the sample results for these elements were more than four times the spike level, the criterion does not apply. The MS recoveries for sodium, potassium, rubidium, silicon, and titanium were outside the 75% to 125% requirement, so all associated sample results have been flagged with a "b." The laboratory believes this is a result of matrix interference due to the high levels of other elements in these samples. The %D for the serial dilutions exceeded 10% for magnesium, phosphorous, silicon, and titanium. The laboratory believes this is a result of matrix interference due to the high levels of other elements in these samples. An "e" flag has been applied to these results. Since the post digestion spike passed, the serial dilution was not required, nor was reanalysis. However, these results do indicate matrix interference.

Batch 16822: The mid batch CCB result for praseodymium was above the MDL but below the quantitation limit. All associated sample results were less than 20 times the CCB result and were flagged with a "B." Since the blank and sample results were below the quantitation limit, reanalysis was not required. The initial calibration blank result for iron was above the MDL but less than the quantitation limit and much less than 5% of the sample results; therefore, the data quality was not affected. The LCS failed low for silicon and tungsten; since these were secondary analytes, reanalysis was not required. The affected sample results have been flagged with an "a." The duplicate RPD for cerium, cobalt, europium, sulfur, and praseodymium exceeded the required 30%. Since the results were below the quantitation limit, this criterion does apply. The duplicate RPD for aluminum, calcium, copper, iron, magnesium, manganese, sodium, neodymium, phosphorous, strontium, titanium, yttrium, and zinc exceeded the 30% criterion, and the associated samples have been flagged with "c." The laboratory believes that this particular failure is due to sample inhomogeneity. The serial dilution for silicon, magnesium, calcium, iron, and manganese exceeded the required 10% criterion. Since the post digestion spike passed, the serial dilution was not required, nor was reanalysis. However, these results do indicate matrix interference. The MS recovery for aluminum, calcium, iron, and magnesium exceeded the 30% requirement in the SAP and FSAP. Since the sample results were more than four times the spike concentration, this criterion does not apply. The MS recovery for phosphorous, potassium, sodium, and tungsten exceeded the 30% requirement in the SAP and FSAP. The laboratory believes this is a result of matrix interference due to the high levels of

other elements in these samples and sample inhomogeneity. This was discussed with the client (see Attachment 5), and reanalysis was deemed unnecessary. The MS recovery for cerium was less than 1%. The laboratory believes this was due to an issue with the standard. Since cerium is not a required analyte, reanalysis was not required.

3.2.8 Inductively Coupled Plasma/Mass Spectroscopy

The ICP/MS actinide analysis was performed on the SW846-3050 acid digestion of all liner composite samples. The ICP/MS ^{126}Sn and ^{99}Tc analysis was performed on the same digest, without the addition of the hydrochloric acid. Hydrochloric acid is not used for ^{99}Tc analysis because of the potential formation of a ZnCl ion pair with mass 99.

Direct calibration, where a standard containing the isotope and element of interest is used to calibrate the response of the isotope, is the most accurate type of calibration. Standard material is not available for all the isotopes of interest. Those isotopes without available standards are calibrated using the instrument's mass-response curve that is generated by using the intensity/concentration relationship for the available isotope standards. While the isotope results calibrated in this manner are designated "semi-quantitative" in the procedure, the differences in instrument response along the curve are generally small enough across the actinide mass range such that the results generated might be expected to be within similar uncertainties associated with quantitative results (i.e., those obtained directly against an isotope-specific standard).

A similar approach is used to evaluate the recoveries of calibration checks, standards, and spikes. Just as all of the elemental isotopes of interest are not available for calibration, they are also not available for the various QC samples. Because the chemical properties of an element are the same for all of its isotopes, one elemental isotope can be used as a measure for other isotopes of interest. For example, by measuring the recovery of ^{238}U in the various QC samples, the accuracy of the other uranium isotopes also can be evaluated. Table 1 lists the isotopes used for standards and spike samples for ICP-MS analyses. A response curve is derived using the slopes of the calibration lines of the available isotope standards. Slopes for the isotopes without available standards are then derived from the response curve, and results are calculated using the derived slopes.

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 FSAP lists a holding time of isotopic analytes as 6 months. All samples were initially

analyzed within the holding time. However, due to a required reanalysis, nine samples exceeded the holding time. The reanalysis was delayed by instrument repair, failure of the chemist review to recognize the need for reanalysis, and delayed third level review by the project manager. Additionally, Washington River Projection System's management set the analytical priority of C Farm analysis behind other projects. Since the analytical results did not significantly change from the initial to the final analysis, the laboratory does not believe these exceedances affected the final results.

Batches 16639, 16734, and 16982: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 16341: The preparation blank contained ^{117}Sn below the quantitation limit. However, all samples in the batch were nondetect for ^{117}Sn, so the data was not affected. The LCS for ^{117}Sn exceeded the required 120% at 141% and the associated results have been flagged with an "a." This could indicate a high bias for these results. However, since the results for all samples were below the MDL, the data was not affected. The MS for ^{117}Sn met the recovery requirements, demonstrating preparation batch accuracy to some degree.

Batch 16865: The mid-run CCB contained ^{99}Tc below the quantitation limit. All field samples in this batch demonstrated results below the MDL; therefore, the data was not affected.

Batch 16970: All blanks contained a low level of ^{126}Sn, and the preparation blank contained a low level of ^{126}Sn and ^{99}Tc. Since neither ^{126}Sn or ^{99}Tc were detected in the samples, the data quality was not affected and reanalysis was not required.

3.2.8.2 Actinides

The required and target detection limits were met for all isotopes and in all samples. The FSAP lists the holding time for isotopic analytes as 6 months. All samples were initially analyzed within the holding time. However, due to a required reanalysis, 11 samples exceeded the holding time. The reanalysis was delayed by instrument repair, failure of the chemist review to recognize the need for reanalysis, and a delayed third level review by the project manager. Additionally, Washington River Projection System's management set the analytical priority of C Farm analysis behind other projects. Since the analytical results did not significantly change from the initial to the final analysis, the laboratory does not believe these exceedances affected the final results.

Batch 15672: Neptunium-237 was detected in the mid-run CCB below the quantitation level. All affected samples have a similar result and have been flagged with a "B." Since all ^{237}Np results were below the quantitation level, reanalysis is not required. All blanks (CCB and preparation blanks) contained ^{232}Th below the quantitation level and were less than 5% of the sample results. Therefore, the results were not affected and reanalysis was not required. The LLS for ^{235}U was recovered above the 130% requirement at 131%. Since the lowest sample result was more than 10 times the LLS level, the results were not affected. The RPD for ^{237}Np exceeded the 30% requirement at 47%. Since the results were below the quantitation limit, this criterion does not apply. The closing CCB result for ^{238}U was above the MDL but below the quantitation limit and less than 5% of the sample results; therefore, reanalysis was not required.

Batch 16171: The preparation blank result for ^{235}U was below the quantitation limit but less than 5% of the lowest sample result. Therefore, no reanalysis was required and the data quality was

not affected. The preparation blank result for ^{232}Th was above the quantitation limit but less than 5% for the sample result; therefore, reanalysis was not required and the data quality was not affected. The preparation blank contained ^{238}U above the quantitation level and was greater than 5% of three of the sample results. However, since the sample results were below the TDL and above the quantitation limit, the client gave permission to report the data with a "B" qualifier (see Attachment 5). The ending LLS for ^{235}U exceeded the 130% requirement at 133%. This could indicate a high bias for ^{235}U results near the LLS level. However, the lowest sample result for ^{235}U was approximately 80 times the LLS level and the data quality was not affected.

Batch 16595: The preparation blank contained ^{238}U and ^{235}U above the quantitation level and was greater than 5% of all of the sample results in this batch. Since the sample results were above the quantitation level but below the TDL, the client gave permission to report the data with a "B" qualifier and narration of the issue (see Attachment 5). The preparation blank result for ^{233}U was below the quantitation limit and greater than 5% of the sample results. Since both the sample results and the blank result were below the quantitation level, reanalysis was not required. The associated results have been flagged with a "B." The preparation blank result for ^{232}Th was above the quantitation limit but less than 5% of the sample results; therefore, reanalysis was not required and the data quality was not affected. The ICB and CCBs contained ^{232}Th below the quantitation limit, which had no effect on the data quality. The RPD for ^{234}U exceeded the 30% requirement at 38%; since the sample result was below the quantitation limit, this criterion does not apply.

Batch 17023: The closing LLS exceeded the 130% criterion for ^{232}Th at 164%. However, all results were near the CCV level, which is 200 times the LLS. Therefore, the data quality was not affected. The RPD for ^{234}U and ^{238}U exceeded the 30% requirement; since the sample result was below the quantitation limit, this criterion does not apply.

Batch 17024: The first CCB contained ^{235}U at a level equal to the MDL; since it was below the quantitation limit, the data quality was not affected. The initial LLS exceeded the 130% for ^{232}Th criterion at 164%. However, all results were near the CCV, which is 200 times the LLS, and therefore, there was no effect on the data quality. The RPD for ^{234}U exceeded the 30% requirement; since the sample result was below the quantitation limit, this criterion does not apply.

3.2.8.3 Trace Metals

Antimony, arsenic, cadmium, lead, nickel, selenium, silver, thallium, and vanadium were analyzed by ICP/MS to obtain the required detection limits in the SAP. Additionally, some chromium and cobalt results were used from the ICP/MS analyses. Except for the required detection limit for selenium, all target and required detection limits were met or the sample results were above the quantitation limit and the sample detection limit criteria do not apply. The target detection limit for selenium was approximately an order of magnitude below the detection limit obtained by using ICP/MS. The laboratory does not anticipate reaching this detection limit for future projects. The FSAP lists the holding time of isotopic analytes as 6 months. All samples were initially analyzed within the holding time using ICP/AES. However, due to a required reanalysis, 23 samples exceeded this holding time. The reanalysis was delayed by instrument repair, failure of the chemist review to recognize the need for reanalysis, and a delayed third level review by the project manager. Additionally, Washington River Projection System's management set the analytical priority of C Farm analysis behind other projects. Since the

analytes with results that could be compared (chromium, cobalt, nickel, and vanadium) did not significantly change from the initial ICP/AES to the final ICP/MS analysis, the laboratory does not believe these exceedances affected the final results.

SW846-6020A requires that an interference check standard be used to determine possible isobaric or polyatomic ion interferences. The current laboratory procedure does not require the use of this standard, and it was not included in these analyses. However, interferences were mitigated by the use of the collision cell, or gas mode, of the instrument. This was used for arsenic and vanadium to mitigate chloride interference. Since the blank result for these elements were below the MDL, the mitigation appears to have been successful. The laboratory plans to use the required interference check standard for future projects.

Batch 16927: The initial LLS recovered Cr at 152%. Since all chromium results were above the ICV/CCV level, the high recovery of the LLS does not affect data quality for chromium. The selenium recoveries for the LLS were outside the 70% to 130% requirement in SW846 at 167% for the initial LLS and 36% for the final LLS. The selenium concentration selected for the LLS was only slightly above the MDL and was determined to be too low. Some of the subsequent analyses used a more appropriate LLS level of selenium. The preparation blank contained silver, cadmium, thallium, and nickel above their MDLs but below the quantitation limits. All sample results, except for nickel, have been flagged with a "B" because the blank result was greater than 5% of the sample results. Reanalysis was not required because the blank results were below the quantitation limits.

Batch 16990: The preparation blank and mid-run CCB results for thallium were above the MDL but less than the quantitation limit. Since the blank result was greater than 5% of all sample results, a "B" flag has been applied. Reanalysis was not required since the blank result was below the quantitation limit.

Batch 17021: The closing LLS for selenium was recovered at 202%. Since all sample results for selenium were below the MDL, the data quality was not affected. The selenium concentration selected for the LLS was at the MDL and was determined to be too low. Some of the subsequent batches used a more appropriate LLS concentration of selenium. The preparation blank result for selenium was above the MDL. However, since all sample results were below the MDL, the data quality was not affected. The closing CCV for silver was below the required 90% at 89.3%. This CCV bracketed only QC samples, all of which met requirements. Therefore, reanalysis was deemed unnecessary. The duplicate RPD for nickel exceeded the 30% requirement at 45%, and the associated results have been flagged with a "c." The laboratory believes this is due to sample inhomogeneity, and with client agreement, reanalysis was not performed (see Attachment 5).

Batch 17062: The LLS recoveries for selenium were 213% and 220%. Since all sample results for selenium were below the MDL, the data quality was not affected. The selenium concentration selected for this LLS, though higher than previously used, was determined to be too low. Subsequent analyses used a more appropriate LLS concentration of selenium. The preparation blank and closing CCB results for selenium were above the MDL. However, since all sample results were below the MDL, the data quality was not affected. The duplicate RPD for cadmium exceeded the 30% requirement at 33%. Since the sample result was below the quantitation level, this criterion does not apply. The duplicate RPD for lead, thallium, and vanadium exceeded the 30% requirement at 47%, 59%, and 44%, respectively, and the associated results have been flagged with a "c." Based on ICP/AES and other analyses, the laboratory believes this is due to

sample inhomogeneity and, with client agreement, no reanalysis was performed (see Attachment 5).

Batch 17063: The preparation blank result for thallium was above the MDL but less than the quantitation limit. Since the blank result was greater than 5% of all sample results, a "B" flag has been applied. Reanalysis was not required since the blank result was below the quantitation limit. The duplicate RPD for thallium exceeded the 30% requirement at 32%. Since the sample result was below the quantitation level, this criterion does not apply.

Batch 17222: The preparation blank result for selenium was above the MDL. However, since all sample results were below the MDL, the data quality was not affected.

Batch 17230: The post digestion spike failed low at 42% for selenium. However, since the MS met the required recovery criteria at 102%, a post digestion spike is not required (per SW846). It should be noted that the raw sample result was negative, indicating a matrix interference. This may be the cause of the low post digestion spike recovery. The spike level for the MS is higher than the post digestion spike and possibly negated the interference.

Batch 17234: There were no notable issues with this batch; all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3 RADIOCHEMICAL ANALYSIS

The holding time listed in the FSAP for radioactive isotopes is 6 months. SW846 does not address holding times for these analytes. All radiochemical analyses met the 6-month holding time. Holding time tables for these analytes have not been included in Attachment 2.

3.3.1 Gamma Energy Analysis

Gamma energy analysis was performed directly on approximately 60 mL of soil from all liner composite samples. Sample B1YT98 was inadvertently analyzed twice. The sample with the highest ^{137}Cs result (S09V000473) has been reported in Attachment 1. The other analysis results and raw data are contained in Appendix 2. The GEA analysis met all the required detection limits in the SAP. The laboratory was unable to meet any of the target detection limits.

Batches 13909, 15005, 15098, 15100, and 15511: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batches 15099: This batch did not contain a field sample duplicate as required in the QAPP. However, the client indicated (see Attachment 5) the FSAP and SAP only requires one field duplicate per core hole. Since the client QC requirement was met, reanalysis was not required.

3.3.2 Strontium-90/89

Strontium-90/89 analysis was performed on a strong acid digest of all liner composite samples. Fifteen of the sample analyses met the required detection limit of 2.3 pCi/g listed in the FSAP or had results above the quantitation limit. Of the remaining ten samples, all but one achieved a detection limit between 2.3 pCi/g and 4.2 pCi/g. No detection limit exceeded the lowest action limit of 23 pCi/g in Table 5.2 of the SAP.

Batches 16420, 16466, and 16485: There were no notable QC issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 16482: The preparation blank had a positive result slightly above the minimum detectable activity with a counting error of 117%. All samples, except one, had results below the MDA. The sample result above the MDA was below the quantitation limit and has been flagged with a "B." Because the result of the blank and the sample were below the quantitation limit, reanalysis was not performed.

Batch 16610: The RPD between the sample and duplicate was 116%. The original digestates were reanalyzed with similar results. There was insufficient sample to perform a second preparation of the sample. A "c" flag has been applied to all samples in the batch.

Batch 16776: The blank result displayed in Attachment 1 for sample S09V000509 (<2.7E-6 μCi/g), is different from that in the batch report (<1.95E-6 μCi/g). This resulted from the sample being rejected and reanalyzed in a new batch (16776) while the remaining samples in the original batch were reported from the original batch. Both batches share the same preparation blank, which has now been analyzed twice. Currently, the Data Summary Report (Attachment 1) reports only one blank result; it is from the original batch. Additional programming is required to change this. The two blank results are essentially the same.

3.3.3 Tritium

The tritium analysis was performed on a water leach of all liner composite samples. This method only measured the tritium in the samples which can be dissolved in water. This analysis achieved the required detection limit in the FSAP but could not meet the target detection limit. There were no notable issues with any of the tritium batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.4 Selenium-79

The ^{79}Se analysis was performed on a strong acid digest of all liner composite samples. The analysis achieved the target detection limit in the FSAP. No required detection limit was listed. No standard is currently available for ^{79}Se. A cold carrier is used to monitor recovery and is measured gravimetrically.

Batches 16105 and 16145: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batches 16188, 16194, and 16259: The preparation blanks for these batches demonstrated positive results below the quantitation limit, as did many of the samples. All results had very large counting errors and were below the target detection limit. Because of these factors, reanalysis was not required. The associated results have been flagged with a "B."

Batch 16409: The blank results displayed in Attachment 1 for sample S09V000509 (<1.51E-6 μCi/g) and S09V000666 (5.23E-6 μCi/g) are different from that in the batch report (<2.2E-6 μCi/g). This resulted from these samples being rejected and reanalyzed in a new batch

(16409), while the remaining samples in the original batch were reported from the original batch. Both batches share the same preparation blank, which has now been analyzed twice. The current Data Summary Report (Attachment 1) reports only one blank result; it is from the original batch. Additional programming is required to change this. The two blank results are essentially the same. Even though the original blank result for sample S09V000666 was positive, it had a counting uncertainty of 185%.

3.3.5 Carbon-14

The ^{14}C analysis was performed on a water leach of all liner composite samples. The 10-ft. to 12-ft. interval from core hole C6404 did not retrieve sufficient liner material to produce a sample for this analysis. 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 the batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

3.3.6 Nickel-63

The ^{63}Ni analysis was performed on a strong acid digest of all liner composite samples. The analysis achieved the required detection limit in the FSAP but exceeded the target detection limit of 30 pCi/g. Most samples had detection limits of between 50 pCi/g and 100 pCi/g.

Batches 15697, 16267, 16282, and 16392: There were no notable issues with these ^{63}Ni batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 16240: The preparation blank had a positive result slightly above the MDA with a counting error of 412%. All samples, except one, had results below the MDA. The sample result above the MDA was below the quantitation limit and has been flagged with a "B." Because the results for the blank and the sample were below the quantitation limit, reanalysis was not performed.

Batch 16551: The blank result displayed in Attachment 1 for sample S09V000509 (<5.65E-5 μCi/g) is different from that in the batch report (<4.98E-6 μCi/g). This resulted from the sample being rejected and reanalyzed in a new batch (16551), while the remaining samples in the original batch were reported from the original batch. Both batches share the same preparation blank, which was analyzed twice. The current Data Summary Report (Attachment 1) reports only one blank result; it is from the original batch. Additional programming is required to change this. The two blank results are essentially the same.

3.3.7 Iodine-129

Analysis for ^{129}I was performed on an iodine specific fusion digest of all liner composite samples. The required and target detection limits in the SAP were met.

Batches 16203, 16246, and 16307: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 16468: The preparation blank result was above the quantitation limit but below the target detection limit. The customer contact agreed (see Attachment 5) that since the result was below the target detection limit, reanalysis was unnecessary. One of the samples in this batch had a result above the quantitation limit but below the target detection limit. This result has been flagged with a "B." The remaining sample results were nondetect.

Batch 16496: The preparation blank result was above the quantitation limit but below the target detection. Since the sample results were all nondetect, reanalysis was not required.

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

Analysis for ^{241}Am, $^{243/244}$Cm, and ^{242}Cm was performed on a strong acid digest of all liner composite samples. For this analysis, there were no notable issues with any batches and all QC requirements in the FSAP, SAP, and the QAPP were met. The required detection limit in the SAP was met, and all but three samples met the target detection limit.

3.3.9 Plutonium-238 and Plutonium-239/240

Plutonium isotopic (^{238}Pu and $^{239/240}$Pu) analysis was performed on a strong acid digest of all liner composite samples. For this analysis, there were no notable issues with any batches and all QC requirements in the FSAP, SAP, and the 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 was performed on all field samples by purge and trap. Field sampling, sample containers, and preservation followed SW846-5035. 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. Four liquid trip blank samples 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 but two meet the required holding time. Sample B1YTB2 (S09V000410), a soil sample, exceeded the holding time requirement by 2 days. This was caused by a lack of facility resources (radiological control technicians), which was beyond the control of the analytical staff contractor at 222-S. The facility operator is addressing the issue by hiring additional facility support staff. Sample B1YY24 (S09V000493), a trip blank, was analyzed 1 day beyond the required holding time. This was due to an oversight by 222-S analytical personnel. The laboratory believes that the affect of the holding time exceedance on sample results is minimal. A study by the Department of Energy and others have

shown that exceedances of less than 2 weeks produce no statistical difference and only a few compounds are affected for up to 6 weeks (see Reference Section).

The VOA analysis met the target and required detection limits in the SAP with the following exceptions: for 2-nitropropane, one sample was slightly above the target detection limit; for cis-1,2-dichloroethene, trans-1,2-dichloroethene, m,p-xylene, o-xylene, and TCE, two samples were slightly above the target detection limits. These detection limit exceedances were caused by a less than 5 g aliquot in the VOA vial. The laboratory cannot adjust the amount of sample when following SW846-5035 and must analyze them as received.

Loss of Internal Standards, Spike Compounds, and Surrogates: During the VOA analysis of the C Farm soil samples, low recoveries of the internal standard and surrogates were frequently experienced. At times, the instrument produced no response at all for these monitoring compounds. The issue was extensively investigated and was isolated to only the C Farm soil samples. Liquid samples and laboratory prepared soil standards (using laboratory VOA vials and stir bars) were not affected. The C Farm soil samples were analyzed on different instruments, which eliminated instrumentation as the problem. The laboratory believes that this problem is related to the sample matrix and/or the oversized stir bars used by the client. Additionally, it was determined that some of the VOA vials provided by the client leaked around the cap during purging. The problem was determined to be some type of blockage that impeded purge flow. The laboratory eventually developed a technique that provided improved results. This technique consisted of lightly shaking the VOA vial while monitoring purge flow with an in-line flow meter. The laboratory has requested that the client discontinue the use of the large stir bar and use different VOA vials.

The purpose of the internal standard is to compensate for fluctuation and drift in instrument response. The instrument responses for spikes, surrogates, or compounds found in the sample are adjusted base on their closest internal standard. A complete loss of internal standard undoubtedly invalidates the sample results. However, low internal standard recoveries do not necessarily mean that the data is unusable. SW846 only specifies minimum internal standard recovery requirements for the CCV, not the samples. While there are no regulatory limits for internal standard recoveries in a sample, there are practical limitations to the amount of fluctuation that can be tolerated before quantitation is affected. Typically that value is around the limits specified for the CCV (-50 to +100% drift). The further that the sample internal standards are from the established CCV limit, the more likely the quantitation is adversely affected. When internal standard recoveries fall outside these limits, surrogate recoveries may be used to evaluate any adverse effects on quantitation. On all samples exhibiting low internal standard responses, associated surrogate recoveries were evaluated to determine if the loss had significant effect on the reported results. Based on this evaluation, the laboratory believes that the VOA results contained in this report are useable.

Samples and their associated MS and matrix spike duplicate (MSD) were initially analyzed together in a single analytical run. However, because of the frequent internal standard failures, many reanalyses were required. Due to the limited number of extra sample vials (five per sample), the reanalysis did not typically contain the original sample, MS, and MSD. Consequently, the analytical batches contained in this report have sample and associated QC results for different analytical runs, which were often on different days. The construction of

batches in this manner was necessary for the laboratory information management system to associate a sample and its MS/MSD pair. All information and data concerning the analysis and reanalysis are contained in the VOA section of Appendix B.

The discussion below of the individual batches will not contain additional information concerning the low recoveries of internal standards. Detailed information for each sample is contained Appendix B.

Batch 14157: The method blank contained 1,2-dichloroethane and acetone below the estimated quantitation limit. Since the sample results were below the MDL for these compounds, reanalysis is not required. The LCS demonstrated a high recovery for acetone, 1-butanol, 2-butanone, and methyl isobutyl ketone (MIBK). Since these compounds were non-detect in the sample, reanalysis is not required. Sample results have been flagged with an "a."

Batch 14180: Other than the previously discussed internal standard issue, there were no notable issues with this batch and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 15471: The RPD between the MS and MSD failed to meet the 30% requirement for acetone, 1-butanol, 2-butanone, and MIBK. Since the sample did not contain quantifiable amounts of these compounds, reanalysis was not necessary. However, the sample results were flagged with a "c" indicating a batch precision failure. The MS failed slightly high at 131% for 2-butanone. Since this compound was not detected above the quantitation level, reanalysis was not required. The sample was flagged with a "b."

Batch 15472: The second method blank contained acetone below the estimated quantitation limit. Since the associated sample did not contain acetone above the estimated quantitation limit, reanalysis is not required. A "B" flag has been applied to the sample result. Toluene was present in the second method blank below the estimated quantitation limit. Since the associated sample results were below the MDL, the data was not affected. The first LCS demonstrated a high recovery for 1,1-dichloroethene, MIBK, acetone, and 2-butanone. Since these compounds were not detected in the samples above the estimated quantitation limit, reanalysis is not required. Sample results have been flagged with an "a." The MS recovery for 1-butanol was above the 30% requirement and a "b" flag has been added to the associated results. Since this compound was not detected in the associated samples, reanalysis was not required. The CCV %D exceeded the ±20% requirement for trichlorofluoromethane, 1,1-dichloroethene, carbon disulfide, acetone, and 2-butanone. All were above the expected value. Since all compounds were either not detected or below the estimated quantitation limit, the results were not affected and reanalysis not required. The CCV met the 15% average %D requirement.

Batch 15474: The method blank contained acetone below the estimated quantitation limit. Since the associated sample did not contain acetone, reanalysis is not required. The CCV for acetone exceeded the 20% %D requirement. Since the CCV was above the calibration amount and the sample was nondetect, reanalysis was not required.

Batch 15476: The method blank contained acetone below the estimated quantitation limit. Since the associated sample did not contain acetone, reanalysis is not required.

Batch 15477: The method blank contained acetone below the estimated quantitation limit. Since the associated samples did not contain acetone above the estimated quantitation limit, reanalysis is not required. All acetone results were slightly above the MDL and have been flagged with a "B." The RPD between the MS and MSD exceeded the 30% requirement at 31% for 1-butanol. Since the samples were nondetect for this compound, reanalysis was not required. A "c" flag was added to the associated sample results. The CCV for acetone exceeded the 20% %D requirement. Since the CCV was above the calibration amount and the samples were below the estimated quantitation limit, reanalysis was not required.

Batch 15479: There were no notable issues with this liquid sample batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 15491: Other than the previously discussed internal standard issue, there were no notable issues with this batch and all QC requirements in the FSAP, SAP, and the QAPP were met. Since the client only required an MS/MSD pair per core hole (see Attachment 5), there is no MS/MSD in this batch. The MS/MSD for core hole C6406 is in batch 15477.

Batch 15492: Other than the previously discussed internal standard issue, there were no notable issues with this batch and all QC requirements in the FSAP, SAP, and the QAPP were met. Since the client only required an MS/MSD pair per core hole (see Attachment 5), there is no MS/MSD in this batch. The MS/MSD for core hole C6406 is in batch 15477, and the MS/MSD for core hole C6402 is in batch 15471.

Batch 15493: There were no notable issues with this liquid sample batch, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 15503: The method blank contained acetone below the estimated quantitation limit. Since associated samples did not contain acetone above the estimated quantitation limit, reanalysis is not required. Two samples contained acetone at slightly above the MDL and have been flagged with a "B." The method blank contained toluene below the estimated quantitation limit. Since associated samples did not contain toluene above the MDL, reanalysis was not required.

Batch 15525: The CCV %D for 1-butanol was slightly high at 20.6%. Since the sample did not contain 1-butanol above the MDL, the result was not adversely affected. Since the client only required an MS/MSD pair per core hole (see Attachment 5), there is no MS/MSD in this batch. The MS/MSD for core hole C6404 is in batch 15674.

Batch 15671: The CCV associated with the field samples and the MSD for sample B1TY75 (S09V000125) had a %D of -23% for 1-butanol. This could indicate that positive results for 1-butanol could be biased low. A laboratory-defined "Y" flag has been applied to these results. 1-butanol was not detected in these samples. Additionally, the MSD was recovered at 90%, indicating that the low CCV had minimal affect on the results. The CCV associated with the MS/MSD for sample B1YT72 (S09V000124) and MS for sample B1YT75 (S09V000125) had a %D of -30% for 1-butanol. The recoveries for the field quality control samples were within the required 70% to 130%, indicating that the low CCV had minimal effect on the analysis results. The average %D was less than 15%, which meets the SW-846 requirement.

Batch 15673: The CCV %D exceeded the 20% limit for acetone. Acetone was recovered above the expected calibration value. This could indicate a high bias for acetone sample results. Since the sample result for acetone was below the estimated quantitation limit, reanalysis was not required and the data was not affected. The method blank contained acetone and toluene below the estimated quantitation limit. The sample contained acetone below the estimated quantitation limit and was nondetect for toluene. Since all results (blank and sample) were below the estimated quantitation limit, reanalysis was not required. Since the client only required an MS/MSD pair per core hole (see Attachment 5), there is no MS/MSD in this batch. The MS/MSD for core hole C6400 is in batch 15503.

Batch 15674: The CCV had a %D at -21% for 1-butanol. This could indicate that positive results for 1-butanol could be biased low. A laboratory defined "Y" flag has been applied to these results. 1-butanol was not detected in these samples. The LCS and MS/MSD recoveries were within the required limits, indicating that the low CCV had minimal effect on the analysis results. The average %D was less than 15%, which meets the SW-846 requirement.

Batch15785: The LCS recoveries for 1-butanol, 2-butanone, MIBK, and acetone were above the required 130%. The sample did not contain these compounds above the MDL, so the results were not affected. The method blank contained toluene below the estimated quantitation limit. Since the associated sample did not contain toluene above the MDL, reanalysis was not required. The CCV %D for 1-butanol was slightly high at 20.1%. Since the sample did not contain 1-butanol above the MDL, the result was not adversely affected. Since the client only required and MS/MSD pair per core hole (see Attachment 5), there is no MS/MSD in this batch. The MS/MSD for core hole C6404 is in batch 15674. The average %D was less than 15%, which meets the SW-846 requirement.

3.4.2 Semivolatile Organic Analysis

The semivolatile organic analysis (SVOA) was performed on methylene chloride extractions of all liner composite samples except B20XV5 and B20XW3. These samples were not analyzed based on the client's instructions. Each extract was analyzed twice using two separate calibration curves to provide calibrated results for all compounds listed in the FSAP and SAP. All holding times were met except for the extraction of sample B20XV9 (S09V000742). This was caused by failure to assign the test during log-in.

Ten of the twenty-two samples contained a low level of bis (2-ethylhexyl) phthalate, which was not detected above the MDL in the method blanks. Additionally, low levels of di-n-butylphthalate were detected in four samples and was present in the method blank associated with two of the samples. Low levels of phthalates may represent contamination of the samples during sampling and/or analysis, but environmental contamination could also be the source. If laboratory contamination is present, it will usually appear in the method blank. Due to the prevalence of low level phthalate contamination in the environment, it can be hard to determine the source of low level results. Equipment blanks can help isolate the source of phthalates, but no equipment blanks were analyzed with these samples. One possible source of phthalate could be the red plastic end caps used with the liners. It is the laboratory's opinion that the use of these end caps should be discontinued.

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

- The adjusted MDLs for cyclohexanone were above the 0.5mg/kg target detection limit for most samples. This compound obtained detection limits between 0.5 mg/kg an 0.7 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 0.7 mg/kg for this compound.
- 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.

Batches 14181, 14528, 14529, and 15811: There were no notable issues with these batches, and all QC requirements in the FSAP, SAP, and the QAPP were met.

Batch 14169: The surrogate terphenyl-d14 was recovered below the laboratories SPC limits of 75% to 175% at 62%. It is the laboratory's opinion that this is not a particularly low recovery and the usability of the associated results was not affected. The SPC limits appear to be biased high. SPC limits are currently under review and will be updated. This bias is expected to be corrected. All other QC requirements were met.

Batch 14527: Di-n-butylphthalate was detected in the method blank below the quantitation limit. However, the blank result exceeded 5% of the associated sample results. These results have been flagged with a "B." Since the blank and sample results were below the quantitation limit, reanalysis was not required. No MS or MSD was analyzed with this batch. Since the client only required that an MS and MSD be analyzed once per core hole (see Attachment 5), this requirement was met in batch 14529. All other QC requirements were met.

Batch 14580: For two samples, the surrogate terphenyl-d14 was recovered below the laboratory's SPC limits of 75% to 175% at 64% and 58%. It is the laboratory's opinion that this is not a particularly low recovery and the usability of the associated results was not affected. The SPC limits appear to be biased high. SPC limits are currently under review and will be updated. This bias is expected to be corrected. All other QC requirements were met.

Batch 15509: All QC requirements were met. However, a large cyclohexene peak was detected during the second analysis of the samples. Since the TICs were reported from the 1st analysis only, this peak has not been reported. The laboratory believes that the cyclohexene was present in the methylene chloride used for the extraction.

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 (NIST) 02, *HP Mass Spectral (compound) Libraries*. The estimated concentration of compounds identified from 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 4. TICs found in the field samples and which were present in the associated batch method blank have been flagged with "B."

4.0 PROCEDURES

Table 2 lists the analytical procedures used for analysis of the C-Farm samples.

Table 2. Analytical Procedures.

Analysis	Preparation Method	Analysis Procedure
Inorganic Analyses		
Cyanide	LA-695-103, Rev. I-0, J-0 (SW-846 9010C)	LA-695-103, Rev. I-0, J-0 (SW-846 9014)
Sulfide	LA-361-101, Rev. D-0 (SW-846 9030B)	LA-361-101, Rev. D-0 (SW-846 9215)
pH	Direct	LA-212-105, Rev. G-0 (SW-846 9045D)
Mercury – Cold Vapor Atomic Absorption	LA-325-106, Rev. G-0 (SW-846 7470A, 7471A)	LA-325-106, Rev. G-0 (SW-846, 7470A, 7471A)
Ammonia – IC	LA-544-112, Rev. D-0	LA-533-101, Rev. O-0
Anions & Organic Acids – IC	LA-504-101, Rev. L-0	LA-533-115, Rev. J-0
Metals – ICP /AES	LA-505-163, Rev. F-0 (SW-846 3050B)	LA-505-161, Rev. I-0, J-0a (SW-846 6010C)
^{99}Tc, ^{126}Sn – ICP/MS	LA-505-163, Rev. F-0 (SW-846 3050B)	LA-506-102, Rev. E-0
Metals – ICP/MS	LA-505-163, Rev. F-0 (SW-846 3050B)	LA-506-103, Rev. A-0 (SW-846 6020A)
Actinides – ICP/MS	LA-505-163, Rev. F-0 (SW-846 3050B)	LA-506-102, Rev. E-0
Radiochemical Analyses		
GEA	Direct	LA-548-121, Rev. I-0
^{90}Sr – Separation/Beta counting	LA-544-101, Rev. F-0	LA-220-101, Rev. I-0
Tritium – LSC	LA-504-101, Rev. L-0	LA-218-114, Rev. F-0
^{14}C – LSC	LA-504-101, Rev. L-0	LA-348-104, Rev. H-0
^{79}Se – Separation/LSC	LA-544-101, Rev. F-0	LA-365-102, Rev. I-0
^{63}Ni – Separation/LSC	LA-544-101, Rev. F-0	LA-285-102, Rev. D-0
^{129}I – Separation/GEA	LA-544-101, Rev. F-0	LA-378-105, Rev. C-0
^{241}Am, $^{243/244, 242}$Cm – Separation/AEA	LA-544-101, Rev. F-0	LA-953-104, Rev. H-1
$^{239/240, 238}$Pu – Separation/AEA	LA-544-101 Rev. F-0	LA-953-104, Rev. H-1
Organic Analyses		
VOC – GC-MS	Direct	LA-523-118, Rev. G-0

Table 2. Analytical Procedures.

Analysis	Preparation Method	Analysis Procedure
SVOC – GC/MS	LA-523-138, Rev. F-0 (SW846-3540C)	LA-523-135, Rev. C-0

5.0 REFERENCES

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Attachment 1

DATA SUMMARY REPORT

03 - Feb - 2010 15:26:15
DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT69
Sample Depth: 14-15

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000123			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.238	n/a	n/a	n/a	n/a	0.238	n/a	U
S09V000123			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.452	n/a	n/a	n/a	n/a	0.452	n/a	U
S09V000123			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.595	n/a	n/a	n/a	n/a	0.595	n/a	U
S09V000123			75-35-4	1,1-Dichloroethene	ug/kg	118	<0.340	<0.405	n/a	n/a	n/a	110	0.405	n/a	U
S09V000123			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.214	n/a	n/a	n/a	n/a	0.214	n/a	U
S09V000123			71-36-3	1-Butanol	ug/kg	128	<15.5	<18.5	n/a	n/a	n/a	99.5	18.5	n/a	U
S09V000123			108-10-1	Hexone	ug/kg	129	<1.76	<2.10	n/a	n/a	n/a	115	2.10	n/a	U
S09V000123			67-64-1	Acetone	ug/kg	129	<4.38	9.39	n/a	n/a	n/a	99.5	5.21	n/a	J
S09V000123			71-43-2	Benzene	ug/kg	113	<0.320	<0.381	n/a	n/a	n/a	107	0.381	n/a	U
S09V000123			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.357	n/a	n/a	n/a	n/a	0.357	n/a	U
S09V000123			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.357	n/a	n/a	n/a	n/a	0.357	n/a	U
S09V000123			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.214	n/a	n/a	n/a	n/a	0.214	n/a	U
S09V000123			108-90-7	Chlorobenzene	ug/kg	117	<0.220	<0.262	n/a	n/a	n/a	105	0.262	n/a	U
S09V000123			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.286	n/a	n/a	n/a	n/a	0.286	n/a	U
S09V000123			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.738	n/a	n/a	n/a	n/a	0.738	n/a	U
S09V000123			78-93-3	2-Butanone	ug/kg	129	<2.66	<3.17	n/a	n/a	n/a	109	3.17	n/a	U
S09V000123			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.405	n/a	n/a	n/a	n/a	0.405	n/a	U
S09V000123			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.476	n/a	n/a	n/a	n/a	0.476	n/a	U
S09V000123			108-88-3	Toluene	ug/kg	117	<0.240	0.294	n/a	n/a	n/a	105	0.286	n/a	J
S09V000123			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000123			79-01-6	Trichloroethene	ug/kg	116	<0.300	<0.357	n/a	n/a	n/a	104	0.357	n/a	U
S09V000123			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.762	n/a	n/a	n/a	n/a	0.762	n/a	U
S09V000123			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.310	n/a	n/a	n/a	n/a	0.310	n/a	U
S09V000123			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.429	n/a	n/a	n/a	n/a	0.429	n/a	U
S09V000123			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.595	n/a	n/a	n/a	n/a	0.595	n/a	U
S09V000123			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.88	n/a	n/a	n/a	n/a	1.88	n/a	U
S09V000123			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<1.16	n/a	n/a	n/a	n/a	1.16	n/a	U
S09V000123			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<1.05	n/a	n/a	n/a	n/a	1.05	n/a	U

NA = Not Analyzed, ND = Not Detected

J - Estimated
B - Found in Blank
X - Comment
U - Less Than Detection Limit
a - LCS Outside Range
Y - Comment
c - RPD Outside Range
b - MS/MSD Outside Range
e - SERDIL Outside Range

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DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT69
Sample Depth: 14-15

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000123			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<2.31	n/a	n/a	n/a	n/a	2.31	n/a	U
S09V000123			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.238	n/a	n/a	n/a	n/a	0.238	n/a	U
S09V000123			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT71
Sample Depth: 14-15

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000171			%WATERA	%WATER-APD	%	n/a	n/a	9.120	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000171			57-12-5	Cyanide	ug/g	108	<0.0370	<4.77	<4.82	n/a	n/a	102	4.77	n/a	U
S09V000171			10198-40-0	Cobalt-60	uCi/g	103	<2.35E-07	8.33E-07	n/a	n/a	n/a	n/a	2.40E-07	15.31	
S09V000171			14234-35-6	Antimony-125	uCi/g	n/a	<6.05E-07	1.12E-06	n/a	n/a	n/a	n/a	8.63E-07	40.05	J
S09V000171			10045-97-3	Cesium-137	uCi/g	108	<2.89E-07	7.31E-05	n/a	n/a	n/a	n/a	2.89E-07	6.25	
S09V000171			14683-23-9	Europium-152	uCi/g	n/a	<1.20E-06	<1.28E-06	n/a	n/a	n/a	n/a	1.28E-06	n/a	U
S09V000171			15585-10-1	Europium-154	uCi/g	n/a	<7.88E-07	<8.85E-07	n/a	n/a	n/a	n/a	8.85E-07	n/a	U
S09V000171			14391-16-3	Europium-155	uCi/g	n/a	<4.64E-07	<7.81E-07	n/a	n/a	n/a	n/a	7.81E-07	n/a	U
S09V000171			7439-97-6	Mercury	ug/g	100	<1.00E-04	<0.0175	<0.0201	n/a	n/a	97.3	0.0175	n/a	U
S09V000171			15046-84-1	Iodine-129	uCi/g	91.4	<2.74E-07	<2.38E-07	n/a	n/a	n/a	n/a	2.38E-07	n/a	U
S09V000171			PH	pH	unitless	n/a	n/a	10.1	10.1	10.1	0.396	n/a	0.0100	n/a	
S09V000171			18496-25-8	Sulfide	ug/g	107	<0.180	32.2	32.1	32.15	0.142	113	7.61	n/a	J
S09V000179		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.4	<774	<72.9	n/a	n/a	n/a	n/a	72.9	n/a	U
S09V000179		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<94.8	n/a	n/a	n/a	n/a	94.8	n/a	U
S09V000179		O	106-46-7	1,4-Dichlorobenzene	ug/kg	68.5	<1.13E+03	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000179		O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.0	<381	<35.9	n/a	n/a	n/a	n/a	35.9	n/a	U
S09V000179		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<41.4	n/a	n/a	n/a	n/a	41.4	n/a	U
S09V000179		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<46.6	n/a	n/a	n/a	n/a	46.6	n/a	U
S09V000179		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<54.1	n/a	n/a	n/a	n/a	54.1	n/a	U
S09V000179		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S09V000179		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<514	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S09V000179		O	83-32-9	Acenaphthene	ug/kg	76.9	<176	<16.6	n/a	n/a	n/a	n/a	16.6	n/a	U
S09V000179		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<35.6	n/a	n/a	n/a	n/a	35.6	n/a	U
S09V000179		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<46.0	n/a	n/a	n/a	n/a	46.0	n/a	U
S09V000179		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<412	<38.8	n/a	n/a	n/a	n/a	38.8	n/a	U
S09V000179		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<5.90E+03	<556	n/a	n/a	n/a	n/a	556	n/a	U
S09V000179		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<391	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U
S09V000179		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<500	<47.1	n/a	n/a	n/a	n/a	47.1	n/a	U

NA = Not Analyzed, ND = Not Detected

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X - Comment
U - Less Than Detection Limit
a - LCS Outside Range
Y - Comment
c - RPD Outside Range
b - MS/MSD Outside Range
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DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT71
Sample Depth: 14-15

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000179		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.4	<432	<40.7	n/a	n/a	n/a	n/a	40.7	n/a	U
S09V000179		O	95-57-8	2-Chlorophenol	ug/kg	66.9	<665	<62.6	n/a	n/a	n/a	n/a	62.6	n/a	U
S09V000179		O	218-01-9	Chrysene	ug/kg	n/a	<814	<76.6	n/a	n/a	n/a	n/a	76.6	n/a	U
S09V000179		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<511	<48.1	n/a	n/a	n/a	n/a	48.1	n/a	U
S09V000179		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<5.62E+03	<529	n/a	n/a	n/a	n/a	529	n/a	U
S09V000179		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<477	<44.9	n/a	n/a	n/a	n/a	44.9	n/a	U
S09V000179		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	65.7	<581	<54.7	n/a	n/a	n/a	n/a	54.7	n/a	U
S09V000179		O	206-44-0	Fluoranthene	ug/kg	n/a	<354	<33.3	n/a	n/a	n/a	n/a	33.3	n/a	U
S09V000179		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<697	<65.6	n/a	n/a	n/a	n/a	65.6	n/a	U
S09V000179		O	67-72-1	Hexachloroethane	ug/kg	n/a	<1.12E+03	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V000179		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<510	<48.0	n/a	n/a	n/a	n/a	48.0	n/a	U
S09V000179		O	108-95-2	Phenol	ug/kg	69.2	<594	<55.9	n/a	n/a	n/a	n/a	55.9	n/a	U
S09V000179		O	91-20-3	Naphthalene	ug/kg	n/a	<626	<58.9	n/a	n/a	n/a	n/a	58.9	n/a	U
S09V000179		O	98-95-3	Nitrobenzene	ug/kg	n/a	<646	<60.8	n/a	n/a	n/a	n/a	60.8	n/a	U
S09V000179		O	100-02-7	4-Nitrophenol	ug/kg	79.8	<526	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S09V000179		O	87-86-5	Pentachlorophenol	ug/kg	76.3	<375	<35.3	n/a	n/a	n/a	n/a	35.3	n/a	U
S09V000179		O	129-00-0	Pyrene	ug/kg	80.4	<629	<59.2	n/a	n/a	n/a	n/a	59.2	n/a	U
S09V000179		O	110-86-1	Pyridine	ug/kg	n/a	<650	<61.2	n/a	n/a	n/a	n/a	61.2	n/a	U
S09V000179		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<1.08E+03	<102	n/a	n/a	n/a	n/a	102	n/a	U
S09V000179		O	128-37-0	BHT	ug/kg	n/a	<2.36E+03	<222	n/a	n/a	n/a	n/a	222	n/a	U
S09V000179		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<1.82E+03	<172	n/a	n/a	n/a	n/a	172	n/a	U
S09V000179		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<1.07E+03	<100	n/a	n/a	n/a	n/a	100	n/a	U
S09V000179		O	108-94-1	Cyclohexanone	ug/kg	n/a	<5.59E+03	<526	n/a	n/a	n/a	n/a	526	n/a	U
S09V000179		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<1.91E+03	<180	n/a	n/a	n/a	n/a	180	n/a	U
S09V000179		O	78-83-1	Isobutanol	ug/kg	n/a	<4.60E+03	<433	n/a	n/a	n/a	n/a	433	n/a	U
S09V000187		W	14762-75-5	Carbon-14	uCi/g	98.6	<3.65E-07	<5.45E-05	<8.56E-05	n/a	n/a	98.3	5.45E-05	n/a	U
S09V000187		W	10028-17-8	Tritium	uCi/g	92.2	<3.28E-04	<4.15E-04	<3.07E-04	n/a	n/a	93.4	4.15E-04	n/a	U
S09V000195		A	7429-90-5	Aluminum	ug/g	93.0	<0.0300	7.80E+03	7.49E+03	7645	4.07	233	30.3	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT71
Sample Depth: 14-15

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000195		A	7440-39-3	Barium	ug/g	99.0	<3.00E-03	77.1	73.7	75.4	4.51	94.8	3.03	n/a	
S09V000195		A	7440-41-7	Beryllium	ug/g	103	<1.00E-03	<1.01	<1.01	n/a	n/a	97.0	1.01	n/a	U
S09V000195		A	7440-70-2	Calcium	ug/g	93.0	<0.0500	1.18E+04	1.11E+04	11450	6.19	128	50.5	n/a	
S09V000195		A	7440-50-8	Copper	ug/g	97.0	<5.00E-03	12.5	13.7	13.1	8.71	93.4	5.05	n/a	J
S09V000195		A	7439-89-6	Iron	ug/g	96.5	<5.00E-03	2.51E+04	2.39E+04	24500	5.16	-70.4	5.05	n/a	
S09V000195		A	7440-09-7	Potassium	ug/g	88.8	<0.500	1.27E+03	1.19E+03	1230	6.65	85.3	505	n/a	J
S09V000195		A	7439-91-0	Lanthanum	ug/g	99.7	<3.00E-03	13.8	11.9	12.85	14.9	94.4	3.03	n/a	J
S09V000195		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	8.30	7.71	8.005	7.31	93.1	3.03	n/a	J
S09V000195		A	7439-95-4	Magnesium	ug/g	92.2	<0.0500	6.21E+03	5.97E+03	6090	3.86	84.9	50.5	n/a	
S09V000195		A	7439-96-5	Manganese	ug/g	96.4	<3.00E-03	369	348	358.5	5.91	89.1	3.03	n/a	
S09V000195		A	7439-98-7	Molybdenum	ug/g	97.0	<0.0200	<20.2	<20.2	n/a	n/a	90.7	20.2	n/a	U
S09V000195		A	7440-23-5	Sodium	ug/g	96.4	<0.100	1.93E+03	1.91E+03	1920	1.02	107	101	n/a	
S09V000195		A	7440-00-8	Neodymium	ug/g	n/a	<0.0100	21.2	20.6	20.9	2.71	96.1	10.1	n/a	J
S09V000195		A	7723-14-0	Phosphorus	ug/g	94.8	<0.0500	984	921	952.5	6.68	84.6	50.5	n/a	
S09V000195		A	7440-05-3	Palladium	ug/g	88.7	<0.100	132	<101	n/a	n/a	78.9	101	n/a	J
S09V000195		A	7440-21-3	Silicon	ug/g	88.3	<0.0300	1.63E+03	1.51E+03	1570	7.26	311	30.3	n/a	b
S09V000195		A	7440-24-6	Strontium	ug/g	98.8	<3.00E-03	32.3	30.9	31.6	4.38	94.0	3.03	n/a	
S09V000195		A	7440-25-7	Tantalum	ug/g	97.8	<0.0500	58.6	<50.4	n/a	n/a	41.6	50.5	n/a	J
S09V000195		A	7440-32-6	Titanium	ug/g	96.1	<5.00E-03	1.96E+03	1.87E+03	1915	4.44	87.6	5.05	n/a	
S09V000195		A	7440-61-1	Uranium	ug/g	103	<0.100	<101	<101	n/a	n/a	97.2	101	n/a	U
S09V000195		A	7440-65-5	Yttrium	ug/g	96.0	<2.00E-03	10.9	10.5	10.7	3.92	92.6	2.02	n/a	J
S09V000195		A	7440-66-6	Zinc	ug/g	92.4	<5.00E-03	48.6	45.3	46.95	6.85	84.9	5.05	n/a	
S09V000195		A	7440-67-7	Zirconium	ug/g	93.8	<5.00E-03	17.3	15.8	16.55	8.88	88.8	5.05	n/a	J
S09V000195		A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-07	<7.07E-05	<7.06E-05	n/a	n/a	n/a	7.07E-05	n/a	U
S09V000195		A	TH-232	Thorium-232	ug/g	102	3.14E-05	3.62	3.22	3.42	11.8	99.7	1.72E-03	n/a	
S09V000195		A	13968-55-3	Uranium-233	ug/g	n/a	<5.00E-07	1.35E-04	1.35E-04	.000135	0.245	n/a	1.01E-04	n/a	J
S09V000195		A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-07	9.98E-05	1.16E-04	.0001079	14.8	n/a	5.05E-05	n/a	J
S09V000195		A	15117-96-1	Uranium-235	ug/g	101	<5.50E-07	0.0117	0.0151	.0134	25.2	104	1.11E-04	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT71
Sample Depth: 14-15

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000195		A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-07	6.06E-04	7.03E-04	.0006545	14.9	n/a	4.04E-05	n/a	
S09V000195		A	13994-20-2	Neptunium-237	ug/g	112	<2.65E-06	2.07E-03	1.28E-03	.001675	47.5	109	5.35E-04	n/a	BJ
S09V000195		A	U-238	Uranium-238	ug/g	102	<2.75E-05	1.46	1.84	1.65	23.3	104	5.56E-03	n/a	
S09V000195		A	7440-22-4	Silver	ug/g	107	2.07E-04	0.137	0.134	.1355	2.17	107	0.0323	n/a	BJ
S09V000195		A	7440-38-2	Arsenic	ug/g	114	<8.40E-04	5.62	5.70	5.66	1.44	113	0.170	n/a	
S09V000195		A	7440-48-4	Cobalt	ug/g	110	<4.00E-04	8.96	9.66	9.31	7.47	109	0.808	n/a	
S09V000195		A	7440-43-9	Cadmium	ug/g	106	7.01E-05	0.125	0.120	.1225	3.53	106	0.0121	n/a	B
S09V000195		A	7440-47-3	Chromium	ug/g	110	<2.80E-03	8.23	8.12	8.175	1.29	109	0.566	n/a	
S09V000195		A	7439-92-1	Lead	ug/g	116	<6.20E-04	7.74	7.75	7.745	0.162	110	0.125	n/a	
S09V000195		A	7440-36-0	Antimony	ug/g	110	<8.80E-04	0.184	0.187	.1855	1.38	103	0.178	n/a	J
S09V000195		A	7782-49-2	Selenium	ug/g	112	<1.22E-03	<0.246	<0.246	n/a	n/a	110	0.246	n/a	U
S09V000195		A	7440-28-0	Thallium	ug/g	111	6.92E-05	0.0941	0.100	.09705	6.40	109	0.0121	n/a	BJ
S09V000195		A	7440-62-2	Vanadium	ug/g	113	<4.80E-04	60.2	61.1	60.65	1.46	109	0.970	n/a	
S09V000195		A	7440-02-0	Nickel	ug/g	109	3.20E-04	12.3	10.2	11.25	18.7	106	0.485	n/a	
S09V000203		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.01E-07	<4.60E-07	n/a	n/a	n/a	n/a	4.60E-07	n/a	U
S09V000203		E	14596-10-2	Americium-241	uCi/g	102	<1.00E-06	2.20E-06	n/a	n/a	n/a	n/a	1.15E-06	12.87	
S09V000203		E	15510-73-3	Curium-242	uCi/g	n/a	<4.01E-07	<4.60E-07	n/a	n/a	n/a	n/a	4.60E-07	n/a	U
S09V000203		E	13981-37-8	Nickel-63	uCi/g	85.5	<6.14E-05	<6.85E-05	n/a	n/a	n/a	n/a	6.85E-05	n/a	U
S09V000203		E	PU-239/240	Plutonium-239/240	uCi/g	96.1	<7.24E-07	1.07E-05	n/a	n/a	n/a	n/a	1.10E-06	6.9	
S09V000203		E	13981-16-3	Plutonium-238	uCi/g	n/a	<7.24E-07	<1.10E-06	n/a	n/a	n/a	n/a	1.10E-06	n/a	U
S09V000203		E	15758-45-9	Selenium-79	uCi/g	n/a	<3.20E-06	2.50E-06	n/a	n/a	n/a	n/a	1.50E-06	4309.52	J
S09V000203		E	SR-89/90	Strontium-89/90	uCi/g	99.9	<1.56E-06	1.20E-04	n/a	n/a	n/a	n/a	2.98E-06	8.5	
S09V000211		A	14133-76-7	Technetium-99	ug/g	104	<6.00E-06	1.40E-03	<1.22E-03	n/a	n/a	100	1.21E-03	n/a	J
S09V000211		A	SN-117	Tin-117	ug/g	142	9.07E-04	<0.0445	<0.0447	n/a	n/a	86.7	0.0445	n/a	Ua
S09V000211		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<8.09E-04	<8.13E-04	n/a	n/a	n/a	8.09E-04	n/a	U
S09V000219		S	14798-03-9	Ammonium	ug/g	99.1	<0.0120	4.03	4.54	4.285	11.8	95.7	0.478	n/a	J
S09V001330		W	16984-48-8	Fluoride	ug/g	97.1	<1.61E-03	4.76	3.15	3.955	40.8	101	0.0199	n/a	Bc
S09V001330		W	666-14-8	Glycolate	ug/g	99.8	<9.37E-03	<0.116	<0.116	n/a	n/a	102	0.116	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT71
Sample Depth: 14-15

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001330		W	71-50-1	Acetate	ug/g	103	<6.04E-03	3.19	2.07	2.63	42.7	105	0.0745	n/a	c
S09V001330		W	12311-97-6	Formate	ug/g	101	<4.67E-03	1.73	0.741	1.2355	79.9	103	0.0576	n/a	J
S09V001330		W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	1.34	1.00	1.17	28.6	98.8	0.123	n/a	
S09V001330		W	14797-65-0	Nitrite	ug/g	102	0.160	1.24	1.18	1.21	4.88	104	0.237	n/a	BJ
S09V001330		W	14808-79-8	Sulfate	ug/g	99.7	<0.0187	17.3	12.7	15	30.8	100	0.231	n/a	c
S09V001330		W	338-70-5	Oxalate	ug/g	98.8	<0.0231	2.58	1.47	2.025	54.6	99.3	0.285	n/a	J
S09V001330		W	14797-55-8	Nitrate	ug/g	97.0	0.0219	13.6	9.80	11.7	32.4	101	0.257	n/a	c
S09V001330		W	14265-44-2	Phosphate	ug/g	97.6	<0.0167	11.6	7.76	9.68	39.5	100	0.206	n/a	c

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT72
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000124			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S09V000124			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.388	n/a	n/a	n/a	n/a	0.388	n/a	U
S09V000124			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.510	n/a	n/a	n/a	n/a	0.510	n/a	U
S09V000124			75-35-4	1,1-Dichloroethene	ug/kg	109	<0.340	<0.347	n/a	n/a	n/a	109	0.347	n/a	U
S09V000124			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.184	n/a	n/a	n/a	n/a	0.184	n/a	U
S09V000124			71-36-3	1-Butanol	ug/kg	98.2	<15.5	<15.9	n/a	n/a	n/a	71.8	15.9	n/a	UY
S09V000124			108-10-1	Hexone	ug/kg	108	<1.76	<1.80	n/a	n/a	n/a	98.2	1.80	n/a	U
S09V000124			67-64-1	Acetone	ug/kg	106	<4.38	4.57	n/a	n/a	n/a	91.5	4.47	n/a	J
S09V000124			71-43-2	Benzene	ug/kg	109	<0.320	<0.327	n/a	n/a	n/a	106	0.327	n/a	U
S09V000124			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.306	n/a	n/a	n/a	n/a	0.306	n/a	U
S09V000124			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.306	n/a	n/a	n/a	n/a	0.306	n/a	U
S09V000124			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.184	n/a	n/a	n/a	n/a	0.184	n/a	U
S09V000124			108-90-7	Chlorobenzene	ug/kg	108	<0.220	<0.224	n/a	n/a	n/a	108	0.224	n/a	U
S09V000124			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.245	n/a	n/a	n/a	n/a	0.245	n/a	U
S09V000124			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.633	n/a	n/a	n/a	n/a	0.633	n/a	U
S09V000124			78-93-3	2-Butanone	ug/kg	108	<2.66	<2.71	n/a	n/a	n/a	94.5	2.71	n/a	U
S09V000124			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.347	n/a	n/a	n/a	n/a	0.347	n/a	U
S09V000124			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.408	n/a	n/a	n/a	n/a	0.408	n/a	U
S09V000124			108-88-3	Toluene	ug/kg	108	<0.240	1.36	n/a	n/a	n/a	106	0.245	n/a	J
S09V000124			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.143	n/a	n/a	n/a	n/a	0.143	n/a	U
S09V000124			79-01-6	Trichloroethene	ug/kg	110	<0.300	<0.306	n/a	n/a	n/a	106	0.306	n/a	U
S09V000124			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.653	n/a	n/a	n/a	n/a	0.653	n/a	U
S09V000124			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.265	n/a	n/a	n/a	n/a	0.265	n/a	U
S09V000124			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.367	n/a	n/a	n/a	n/a	0.367	n/a	U
S09V000124			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.510	n/a	n/a	n/a	n/a	0.510	n/a	U
S09V000124			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.61	n/a	n/a	n/a	n/a	1.61	n/a	U
S09V000124			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.992	n/a	n/a	n/a	n/a	0.992	n/a	U
S09V000124			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.903	n/a	n/a	n/a	n/a	0.903	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT72
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000124			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.98	n/a	n/a	n/a	n/a	1.98	n/a	U
S09V000124			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.204	n/a	n/a	n/a	n/a	0.204	n/a	U
S09V000124			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.429	n/a	n/a	n/a	n/a	0.429	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT74
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000172			%WATERA	%WATER-APD	%	n/a	n/a	6.690	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000172			57-12-5	Cyanide	ug/g	108	<0.0370	<4.67	n/a	n/a	n/a	n/a	4.67	n/a	U
S09V000172			10198-40-0	Cobalt-60	uCi/g	103	<2.35E-07	6.26E-07	n/a	n/a	n/a	n/a	2.05E-07	18.79	
S09V000172			14234-35-6	Antimony-125	uCi/g	n/a	<6.05E-07	<6.99E-07	n/a	n/a	n/a	n/a	6.99E-07	n/a	U
S09V000172			10045-97-3	Cesium-137	uCi/g	108	<2.89E-07	6.31E-06	n/a	n/a	n/a	n/a	3.26E-07	7.66	
S09V000172			14683-23-9	Europium-152	uCi/g	n/a	<1.20E-06	<1.19E-06	n/a	n/a	n/a	n/a	1.19E-06	n/a	U
S09V000172			15585-10-1	Europium-154	uCi/g	n/a	<7.88E-07	2.28E-06	n/a	n/a	n/a	n/a	8.08E-07	8.41	
S09V000172			14391-16-3	Europium-155	uCi/g	n/a	<4.64E-07	8.10E-07	n/a	n/a	n/a	n/a	4.95E-07	39.17	J
S09V000172			7439-97-6	Mercury	ug/g	100	<1.00E-04	<0.0205	n/a	n/a	n/a	n/a	0.0205	n/a	U
S09V000172			15046-84-1	Iodine-129	uCi/g	91.4	<2.74E-07	<2.02E-07	n/a	n/a	n/a	n/a	2.02E-07	n/a	U
S09V000172			PH	pH	unitless	n/a	7.99	10.3	10.3	10.3	0.291	n/a	0.0100	n/a	
S09V000172			18496-25-8	Sulfide	ug/g	93.1	<0.180	10.3	7.96	9.13	26.0	81.9	5.24	n/a	J
S09V000180		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	72.4	<774	<77.5	n/a	n/a	n/a	65.5	77.5	n/a	U
S09V000180		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<101	n/a	n/a	n/a	n/a	101	n/a	U
S09V000180		O	106-46-7	1,4-Dichlorobenzene	ug/kg	68.5	<1.13E+03	<113	n/a	n/a	n/a	61.3	113	n/a	U
S09V000180		O	121-14-2	2,4-Dinitrotoluene	ug/kg	80.0	<381	<38.2	n/a	n/a	n/a	76.9	38.2	n/a	U
S09V000180		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<44.1	n/a	n/a	n/a	n/a	44.1	n/a	U
S09V000180		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<49.6	n/a	n/a	n/a	n/a	49.6	n/a	U
S09V000180		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<57.6	n/a	n/a	n/a	n/a	57.6	n/a	U
S09V000180		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<53.8	n/a	n/a	n/a	n/a	53.8	n/a	U
S09V000180		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<514	<51.5	n/a	n/a	n/a	n/a	51.5	n/a	U
S09V000180		O	83-32-9	Acenaphthene	ug/kg	76.9	<176	<17.6	n/a	n/a	n/a	70.9	17.6	n/a	U
S09V000180		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S09V000180		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S09V000180		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<412	<41.3	n/a	n/a	n/a	n/a	41.3	n/a	U
S09V000180		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<5.90E+03	<591	n/a	n/a	n/a	n/a	591	n/a	U
S09V000180		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<391	<39.2	n/a	n/a	n/a	n/a	39.2	n/a	U
S09V000180		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<500	<50.1	n/a	n/a	n/a	n/a	50.1	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT74
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000180		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	72.4	<432	<43.3	n/a	n/a	n/a	72.3	43.3	n/a	U
S09V000180		O	95-57-8	2-Chlorophenol	ug/kg	66.9	<665	<66.6	n/a	n/a	n/a	61.3	66.6	n/a	U
S09V000180		O	218-01-9	Chrysene	ug/kg	n/a	<814	<81.5	n/a	n/a	n/a	n/a	81.5	n/a	U
S09V000180		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<511	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S09V000180		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<5.62E+03	<563	n/a	n/a	n/a	n/a	563	n/a	U
S09V000180		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<477	<47.8	n/a	n/a	n/a	n/a	47.8	n/a	U
S09V000180		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	65.7	<581	<58.2	n/a	n/a	n/a	59.7	58.2	n/a	U
S09V000180		O	206-44-0	Fluoranthene	ug/kg	n/a	<354	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S09V000180		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<697	<69.8	n/a	n/a	n/a	n/a	69.8	n/a	U
S09V000180		O	67-72-1	Hexachloroethane	ug/kg	n/a	<1.12E+03	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V000180		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<510	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S09V000180		O	108-95-2	Phenol	ug/kg	69.2	<594	<59.5	n/a	n/a	n/a	64.3	59.5	n/a	U
S09V000180		O	91-20-3	Naphthalene	ug/kg	n/a	<626	<62.7	n/a	n/a	n/a	n/a	62.7	n/a	U
S09V000180		O	98-95-3	Nitrobenzene	ug/kg	n/a	<646	<64.7	n/a	n/a	n/a	n/a	64.7	n/a	U
S09V000180		O	100-02-7	4-Nitrophenol	ug/kg	79.8	<526	<52.7	n/a	n/a	n/a	78.9	52.7	n/a	U
S09V000180		O	87-86-5	Pentachlorophenol	ug/kg	76.3	<375	<37.6	n/a	n/a	n/a	78.3	37.6	n/a	U
S09V000180		O	129-00-0	Pyrene	ug/kg	80.4	<629	<63.0	n/a	n/a	n/a	79.8	63.0	n/a	U
S09V000180		O	110-86-1	Pyridine	ug/kg	n/a	<650	<65.1	n/a	n/a	n/a	n/a	65.1	n/a	U
S09V000180		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<1.08E+03	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V000180		O	128-37-0	BHT	ug/kg	n/a	<2.36E+03	<236	n/a	n/a	n/a	n/a	236	n/a	U
S09V000180		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<1.82E+03	<183	n/a	n/a	n/a	n/a	183	n/a	U
S09V000180		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<1.07E+03	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000180		O	108-94-1	Cyclohexanone	ug/kg	n/a	<5.59E+03	<560	n/a	n/a	n/a	n/a	560	n/a	U
S09V000180		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<1.91E+03	<192	n/a	n/a	n/a	n/a	192	n/a	U
S09V000180		O	78-83-1	Isobutanol	ug/kg	n/a	<4.60E+03	<461	n/a	n/a	n/a	n/a	461	n/a	U
S09V000188		W	14762-75-5	Carbon-14	uCi/g	98.6	<3.65E-07	<6.45E-05	n/a	n/a	n/a	n/a	6.45E-05	n/a	U
S09V000188		W	10028-17-8	Tritium	uCi/g	92.2	<3.28E-04	<4.36E-04	n/a	n/a	n/a	n/a	4.36E-04	n/a	U
S09V000196		A	7429-90-5	Aluminum	ug/g	93.0	<0.0300	4.90E+03	n/a	n/a	n/a	n/a	6.04	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT74
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000196		A	7440-39-3	Barium	ug/g	99.0	<3.00E-03	65.8	n/a	n/a	n/a	n/a	0.604	n/a	
S09V000196		A	7440-41-7	Beryllium	ug/g	103	<1.00E-03	<0.201	n/a	n/a	n/a	n/a	0.201	n/a	U
S09V000196		A	7440-70-2	Calcium	ug/g	93.0	<0.0500	5.17E+03	n/a	n/a	n/a	n/a	10.1	n/a	
S09V000196		A	7440-45-1	Cerium	ug/g	102	<0.0300	19.8	n/a	n/a	n/a	n/a	6.04	n/a	J
S09V000196		A	7440-50-8	Copper	ug/g	97.0	<5.00E-03	12.6	n/a	n/a	n/a	n/a	1.01	n/a	
S09V000196		A	7440-53-1	Europium	ug/g	97.2	<5.00E-03	1.43	n/a	n/a	n/a	n/a	1.01	n/a	J
S09V000196		A	7439-89-6	Iron	ug/g	96.5	<5.00E-03	1.78E+04	n/a	n/a	n/a	n/a	1.01	n/a	
S09V000196		A	7440-09-7	Potassium	ug/g	88.8	<0.500	921	n/a	n/a	n/a	n/a	101	n/a	J
S09V000196		A	7439-91-0	Lanthanum	ug/g	99.7	<3.00E-03	8.45	n/a	n/a	n/a	n/a	0.604	n/a	
S09V000196		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	6.12	n/a	n/a	n/a	n/a	0.604	n/a	
S09V000196		A	7439-95-4	Magnesium	ug/g	92.2	<0.0500	3.37E+03	n/a	n/a	n/a	n/a	10.1	n/a	
S09V000196		A	7439-96-5	Manganese	ug/g	96.4	<3.00E-03	274	n/a	n/a	n/a	n/a	0.604	n/a	
S09V000196		A	7439-98-7	Molybdenum	ug/g	97.0	<0.0200	<4.03	n/a	n/a	n/a	n/a	4.03	n/a	U
S09V000196		A	7440-23-5	Sodium	ug/g	96.4	<0.100	1.12E+03	n/a	n/a	n/a	n/a	20.1	n/a	
S09V000196		A	7440-00-8	Neodymium	ug/g	n/a	<0.0100	15.2	n/a	n/a	n/a	n/a	2.01	n/a	J
S09V000196		A	7723-14-0	Phosphorus	ug/g	94.8	<0.0500	625	n/a	n/a	n/a	n/a	10.1	n/a	
S09V000196		A	7704-34-9	Sulfur	ug/g	91.7	<0.100	48.0	n/a	n/a	n/a	n/a	20.1	n/a	J
S09V000196		A	7440-21-3	Silicon	ug/g	88.3	<0.0300	1.41E+03	n/a	n/a	n/a	n/a	6.04	n/a	b
S09V000196		A	7440-31-5	Tin	ug/g	93.0	<0.0300	13.0	n/a	n/a	n/a	n/a	6.04	n/a	J
S09V000196		A	7440-24-6	Strontium	ug/g	98.8	<3.00E-03	25.9	n/a	n/a	n/a	n/a	0.604	n/a	
S09V000196		A	7440-32-6	Titanium	ug/g	96.1	<5.00E-03	1.47E+03	n/a	n/a	n/a	n/a	1.01	n/a	
S09V000196		A	7440-61-1	Uranium	ug/g	103	<0.100	<20.1	n/a	n/a	n/a	n/a	20.1	n/a	U
S09V000196		A	7440-65-5	Yttrium	ug/g	96.0	<2.00E-03	7.52	n/a	n/a	n/a	n/a	0.403	n/a	
S09V000196		A	7440-66-6	Zinc	ug/g	92.4	<5.00E-03	33.6	n/a	n/a	n/a	n/a	1.01	n/a	
S09V000196		A	7440-67-7	Zirconium	ug/g	93.8	<5.00E-03	11.9	n/a	n/a	n/a	n/a	1.01	n/a	
S09V000196		A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-07	<7.05E-05	n/a	n/a	n/a	n/a	7.05E-05	n/a	U
S09V000196		A	TH-232	Thorium-232	ug/g	102	3.14E-05	2.37	n/a	n/a	n/a	n/a	1.71E-03	n/a	
S09V000196		A	13968-55-3	Uranium-233	ug/g	n/a	<5.00E-07	1.05E-04	n/a	n/a	n/a	n/a	1.01E-04	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT74
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000196		A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-07	6.80E-05	n/a	n/a	n/a	n/a	5.03E-05	n/a	J
S09V000196		A	15117-96-1	Uranium-235	ug/g	101	<5.50E-07	0.0107	n/a	n/a	n/a	n/a	1.11E-04	n/a	
S09V000196		A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-07	3.84E-04	n/a	n/a	n/a	n/a	4.03E-05	n/a	J
S09V000196		A	13994-20-2	Neptunium-237	ug/g	112	<2.65E-06	5.59E-04	n/a	n/a	n/a	n/a	5.33E-04	n/a	BJ
S09V000196		A	U-238	Uranium-238	ug/g	102	<2.75E-05	1.38	n/a	n/a	n/a	n/a	5.54E-03	n/a	
S09V000196		A	7440-22-4	Silver	ug/g	107	2.07E-04	0.118	n/a	n/a	n/a	n/a	0.0322	n/a	BJ
S09V000196		A	7440-38-2	Arsenic	ug/g	114	<8.40E-04	3.06	n/a	n/a	n/a	n/a	0.169	n/a	
S09V000196		A	7440-48-4	Cobalt	ug/g	110	<4.00E-04	7.15	n/a	n/a	n/a	n/a	0.805	n/a	J
S09V000196		A	7440-43-9	Cadmium	ug/g	106	7.01E-05	0.0671	n/a	n/a	n/a	n/a	0.0121	n/a	BJ
S09V000196		A	7440-47-3	Chromium	ug/g	110	<2.80E-03	9.34	n/a	n/a	n/a	n/a	0.564	n/a	
S09V000196		A	7439-92-1	Lead	ug/g	116	<6.20E-04	4.26	n/a	n/a	n/a	n/a	0.125	n/a	
S09V000196		A	7440-36-0	Antimony	ug/g	110	<8.80E-04	<0.177	n/a	n/a	n/a	n/a	0.177	n/a	U
S09V000196		A	7782-49-2	Selenium	ug/g	112	<1.22E-03	<0.246	n/a	n/a	n/a	n/a	0.246	n/a	U
S09V000196		A	7440-28-0	Thallium	ug/g	111	6.92E-05	0.0727	n/a	n/a	n/a	n/a	0.0121	n/a	BJ
S09V000196		A	7440-62-2	Vanadium	ug/g	113	<4.80E-04	55.8	n/a	n/a	n/a	n/a	0.966	n/a	
S09V000196		A	7440-02-0	Nickel	ug/g	109	3.20E-04	9.58	n/a	n/a	n/a	n/a	0.483	n/a	
S09V000204		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.01E-07	<3.90E-07	n/a	n/a	n/a	n/a	3.90E-07	n/a	U
S09V000204		E	14596-10-2	Americium-241	uCi/g	102	<1.00E-06	1.39E-06	n/a	n/a	n/a	n/a	9.75E-07	16.21	
S09V000204		E	15510-73-3	Curium-242	uCi/g	n/a	<4.01E-07	<3.90E-07	n/a	n/a	n/a	n/a	3.90E-07	n/a	U
S09V000204		E	13981-37-8	Nickel-63	uCi/g	85.5	<6.14E-05	<6.91E-05	n/a	n/a	n/a	n/a	6.91E-05	n/a	U
S09V000204		E	PU-239/240	Plutonium-239/240	uCi/g	96.1	<7.24E-07	<6.77E-07	n/a	n/a	n/a	n/a	6.77E-07	n/a	U
S09V000204		E	13981-16-3	Plutonium-238	uCi/g	n/a	<7.24E-07	<6.77E-07	n/a	n/a	n/a	n/a	6.77E-07	n/a	U
S09V000204		E	15758-45-9	Selenium-79	uCi/g	n/a	<3.20E-06	<3.10E-06	n/a	n/a	n/a	n/a	3.10E-06	n/a	U
S09V000204		E	SR-89/90	Strontium-89/90	uCi/g	99.9	<1.56E-06	2.37E-05	n/a	n/a	n/a	n/a	2.32E-06	20.89	
S09V000212		A	14133-76-7	Technetium-99	ug/g	104	<6.00E-06	2.66E-03	n/a	n/a	n/a	n/a	1.20E-03	n/a	J
S09V000212		A	SN-117	Tin-117	ug/g	142	9.07E-04	<0.0439	n/a	n/a	n/a	n/a	0.0439	n/a	Ua
S09V000212		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.97E-04	n/a	n/a	n/a	n/a	7.97E-04	n/a	U
S09V000220		S	14798-03-9	Ammonium	ug/g	99.1	<0.0120	<0.478	n/a	n/a	n/a	n/a	0.478	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT74
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001331		W	16984-48-8	Fluoride	ug/g	97.1	<1.61E-03	2.63	n/a	n/a	n/a	n/a	0.0198	n/a	c
S09V001331		W	666-14-8	Glycolate	ug/g	99.8	<9.37E-03	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S09V001331		W	71-50-1	Acetate	ug/g	103	<6.04E-03	2.19	n/a	n/a	n/a	n/a	0.0742	n/a	Jc
S09V001331		W	12311-97-6	Formate	ug/g	101	<4.67E-03	0.696	n/a	n/a	n/a	n/a	0.0574	n/a	J
S09V001331		W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	0.731	n/a	n/a	n/a	n/a	0.123	n/a	
S09V001331		W	14797-65-0	Nitrite	ug/g	102	0.160	0.785	n/a	n/a	n/a	n/a	0.236	n/a	BJ
S09V001331		W	14808-79-8	Sulfate	ug/g	99.7	<0.0187	9.35	n/a	n/a	n/a	n/a	0.230	n/a	c
S09V001331		W	338-70-5	Oxalate	ug/g	98.8	<0.0231	0.868	n/a	n/a	n/a	n/a	0.284	n/a	J
S09V001331		W	14797-55-8	Nitrate	ug/g	97.0	0.0219	7.82	n/a	n/a	n/a	n/a	0.256	n/a	c
S09V001331		W	14265-44-2	Phosphate	ug/g	97.6	<0.0167	6.99	n/a	n/a	n/a	n/a	0.205	n/a	c

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT75
Sample Depth: 25-27

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000125			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V000125			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.302	n/a	n/a	n/a	n/a	0.302	n/a	U
S09V000125			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.397	n/a	n/a	n/a	n/a	0.397	n/a	U
S09V000125			75-35-4	1,1-Dichloroethene	ug/kg	109	<0.340	<0.270	n/a	n/a	n/a	108	0.270	n/a	U
S09V000125			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.143	n/a	n/a	n/a	n/a	0.143	n/a	U
S09V000125			71-36-3	1-Butanol	ug/kg	98.2	<15.5	<12.3	n/a	n/a	n/a	88.6	12.3	n/a	UY
S09V000125			108-10-1	Hexone	ug/kg	108	<1.76	<1.40	n/a	n/a	n/a	113	1.40	n/a	U
S09V000125			67-64-1	Acetone	ug/kg	106	<4.38	<3.48	n/a	n/a	n/a	113	3.48	n/a	U
S09V000125			71-43-2	Benzene	ug/kg	109	<0.320	<0.254	n/a	n/a	n/a	113	0.254	n/a	U
S09V000125			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.238	n/a	n/a	n/a	n/a	0.238	n/a	U
S09V000125			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.238	n/a	n/a	n/a	n/a	0.238	n/a	U
S09V000125			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.143	n/a	n/a	n/a	n/a	0.143	n/a	U
S09V000125			108-90-7	Chlorobenzene	ug/kg	108	<0.220	<0.175	n/a	n/a	n/a	112	0.175	n/a	U
S09V000125			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.190	n/a	n/a	n/a	n/a	0.190	n/a	U
S09V000125			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.492	n/a	n/a	n/a	n/a	0.492	n/a	U
S09V000125			78-93-3	2-Butanone	ug/kg	108	<2.66	<2.11	n/a	n/a	n/a	110	2.11	n/a	U
S09V000125			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.270	n/a	n/a	n/a	n/a	0.270	n/a	U
S09V000125			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.317	n/a	n/a	n/a	n/a	0.317	n/a	U
S09V000125			108-88-3	Toluene	ug/kg	108	<0.240	<0.190	n/a	n/a	n/a	113	0.190	n/a	U
S09V000125			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000125			79-01-6	Trichloroethene	ug/kg	110	<0.300	<0.238	n/a	n/a	n/a	111	0.238	n/a	U
S09V000125			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.508	n/a	n/a	n/a	n/a	0.508	n/a	U
S09V000125			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.206	n/a	n/a	n/a	n/a	0.206	n/a	U
S09V000125			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.286	n/a	n/a	n/a	n/a	0.286	n/a	U
S09V000125			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.397	n/a	n/a	n/a	n/a	0.397	n/a	U
S09V000125			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.25	n/a	n/a	n/a	n/a	1.25	n/a	U
S09V000125			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.771	n/a	n/a	n/a	n/a	0.771	n/a	U
S09V000125			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.702	n/a	n/a	n/a	n/a	0.702	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT75
Sample Depth: 25-27

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000125			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.54	n/a	n/a	n/a	n/a	1.54	n/a	U
S09V000125			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V000125			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.333	n/a	n/a	n/a	n/a	0.333	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT77
Sample Depth: 25-27

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000173			%WATERA	%WATER-APD	%	n/a	n/a	9.138	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000173			57-12-5	Cyanide	ug/g	108	<0.0370	<5.01	n/a	n/a	n/a	n/a	5.01	n/a	U
S09V000173			10198-40-0	Cobalt-60	uCi/g	103	<2.35E-07	<2.60E-07	<2.47E-07	n/a	n/a	n/a	2.60E-07	n/a	U
S09V000173			14234-35-6	Antimony-125	uCi/g	n/a	<6.05E-07	<6.87E-07	<6.36E-07	n/a	n/a	n/a	6.87E-07	n/a	U
S09V000173			10045-97-3	Cesium-137	uCi/g	108	<2.89E-07	1.31E-06	1.37E-06	.00000134	4.69	n/a	4.03E-07	20.88	
S09V000173			14683-23-9	Europium-152	uCi/g	n/a	<1.20E-06	<1.25E-06	<1.24E-06	n/a	n/a	n/a	1.25E-06	n/a	U
S09V000173			15585-10-1	Europium-154	uCi/g	n/a	<7.88E-07	<8.67E-07	<7.97E-07	n/a	n/a	n/a	8.67E-07	n/a	U
S09V000173			14391-16-3	Europium-155	uCi/g	n/a	<4.64E-07	<5.11E-07	<4.86E-07	n/a	n/a	n/a	5.11E-07	n/a	U
S09V000173			7439-97-6	Mercury	ug/g	100	<1.00E-04	<0.0221	n/a	n/a	n/a	n/a	0.0221	n/a	U
S09V000173			15046-84-1	Iodine-129	uCi/g	91.4	<2.74E-07	<1.92E-07	<2.13E-07	n/a	n/a	n/a	1.92E-07	n/a	U
S09V000173			PH	pH	unitless	n/a	7.99	10.1	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000173			18496-25-8	Sulfide	ug/g	93.1	<0.180	<5.25	n/a	n/a	n/a	n/a	5.25	n/a	U
S09V000181		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	69.4	<774	<97.7	n/a	n/a	n/a	59.7	97.7	n/a	U
S09V000181		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<1.01E+03	<127	n/a	n/a	n/a	n/a	127	n/a	U
S09V000181		O	106-46-7	1,4-Dichlorobenzene	ug/kg	67.5	<1.13E+03	<143	n/a	n/a	n/a	57.0	143	n/a	U
S09V000181		O	121-14-2	2,4-Dinitrotoluene	ug/kg	70.1	<381	<48.1	n/a	n/a	n/a	72.2	48.1	n/a	U
S09V000181		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<440	<55.5	n/a	n/a	n/a	n/a	55.5	n/a	U
S09V000181		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<495	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S09V000181		O	95-48-7	2-Methylphenol	ug/kg	n/a	<575	<72.5	n/a	n/a	n/a	n/a	72.5	n/a	U
S09V000181		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<537	<67.8	n/a	n/a	n/a	n/a	67.8	n/a	U
S09V000181		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<514	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	U
S09V000181		O	83-32-9	Acenaphthene	ug/kg	69.7	<176	<22.2	n/a	n/a	n/a	63.5	22.2	n/a	U
S09V000181		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<378	<47.7	n/a	n/a	n/a	n/a	47.7	n/a	U
S09V000181		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<489	<61.7	n/a	n/a	n/a	n/a	61.7	n/a	U
S09V000181		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<412	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S09V000181		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<5.90E+03	<745	n/a	n/a	n/a	n/a	745	n/a	U
S09V000181		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<391	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S09V000181		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<500	<63.1	n/a	n/a	n/a	n/a	63.1	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT77
Sample Depth: 25-27

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000181		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	66.8	<432	<54.5	n/a	n/a	n/a	67.3	54.5	n/a	U
S09V000181		O	95-57-8	2-Chlorophenol	ug/kg	65.0	<665	<83.9	n/a	n/a	n/a	56.8	83.9	n/a	U
S09V000181		O	218-01-9	Chrysene	ug/kg	n/a	<814	<103	n/a	n/a	n/a	n/a	103	n/a	U
S09V000181		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<511	<64.5	n/a	n/a	n/a	n/a	64.5	n/a	U
S09V000181		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<5.62E+03	<709	n/a	n/a	n/a	n/a	709	n/a	U
S09V000181		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<477	<60.2	n/a	n/a	n/a	n/a	60.2	n/a	U
S09V000181		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	60.9	<581	<73.3	n/a	n/a	n/a	54.6	73.3	n/a	U
S09V000181		O	206-44-0	Fluoranthene	ug/kg	n/a	<354	<44.7	n/a	n/a	n/a	n/a	44.7	n/a	U
S09V000181		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<697	<87.9	n/a	n/a	n/a	n/a	87.9	n/a	U
S09V000181		O	67-72-1	Hexachloroethane	ug/kg	n/a	<1.12E+03	<141	n/a	n/a	n/a	n/a	141	n/a	U
S09V000181		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<510	<64.3	n/a	n/a	n/a	n/a	64.3	n/a	U
S09V000181		O	108-95-2	Phenol	ug/kg	67.3	<594	<74.9	n/a	n/a	n/a	59.7	74.9	n/a	U
S09V000181		O	91-20-3	Naphthalene	ug/kg	n/a	<626	<79.0	n/a	n/a	n/a	n/a	79.0	n/a	U
S09V000181		O	98-95-3	Nitrobenzene	ug/kg	n/a	<646	<81.5	n/a	n/a	n/a	n/a	81.5	n/a	U
S09V000181		O	100-02-7	4-Nitrophenol	ug/kg	70.4	<526	<66.4	n/a	n/a	n/a	75.9	66.4	n/a	U
S09V000181		O	87-86-5	Pentachlorophenol	ug/kg	61.2	<375	<47.3	n/a	n/a	n/a	70.6	47.3	n/a	U
S09V000181		O	129-00-0	Pyrene	ug/kg	70.4	<629	<79.4	n/a	n/a	n/a	72.8	79.4	n/a	U
S09V000181		O	110-86-1	Pyridine	ug/kg	n/a	<650	<82.0	n/a	n/a	n/a	n/a	82.0	n/a	U
S09V000181		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<1.08E+03	<136	n/a	n/a	n/a	n/a	136	n/a	U
S09V000181		O	128-37-0	BHT	ug/kg	n/a	<2.36E+03	<297	n/a	n/a	n/a	n/a	297	n/a	U
S09V000181		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<1.82E+03	<230	n/a	n/a	n/a	n/a	230	n/a	U
S09V000181		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<1.07E+03	<134	n/a	n/a	n/a	n/a	134	n/a	U
S09V000181		O	108-94-1	Cyclohexanone	ug/kg	n/a	<5.59E+03	<705	n/a	n/a	n/a	n/a	705	n/a	U
S09V000181		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<1.91E+03	<241	n/a	n/a	n/a	n/a	241	n/a	U
S09V000181		O	78-83-1	Isobutanol	ug/kg	n/a	<4.60E+03	<581	n/a	n/a	n/a	n/a	581	n/a	U
S09V000189		W	14762-75-5	Carbon-14	uCi/g	98.6	<3.65E-07	<5.67E-05	n/a	n/a	n/a	n/a	5.67E-05	n/a	U
S09V000189		W	10028-17-8	Tritium	uCi/g	92.2	<3.28E-04	<3.14E-04	n/a	n/a	n/a	n/a	3.14E-04	n/a	U
S09V000197		A	7429-90-5	Aluminum	ug/g	93.0	<0.0300	6.39E+03	n/a	n/a	n/a	n/a	6.02	n/a	

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c - RPD Outside Range
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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT77
Sample Depth: 25-27

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000197		A	7440-39-3	Barium	ug/g	99.0	<3.00E-03	79.2	n/a	n/a	n/a	n/a	0.602	n/a	
S09V000197		A	7440-41-7	Beryllium	ug/g	103	<1.00E-03	0.217	n/a	n/a	n/a	n/a	0.201	n/a	J
S09V000197		A	7440-70-2	Calcium	ug/g	93.0	<0.0500	7.22E+03	n/a	n/a	n/a	n/a	10.0	n/a	
S09V000197		A	7440-45-1	Cerium	ug/g	102	<0.0300	15.3	n/a	n/a	n/a	n/a	6.02	n/a	J
S09V000197		A	7440-50-8	Copper	ug/g	97.0	<5.00E-03	8.96	n/a	n/a	n/a	n/a	1.00	n/a	J
S09V000197		A	7440-53-1	Europium	ug/g	97.2	<5.00E-03	1.45	n/a	n/a	n/a	n/a	1.00	n/a	J
S09V000197		A	7439-89-6	Iron	ug/g	96.5	<5.00E-03	1.43E+04	n/a	n/a	n/a	n/a	1.00	n/a	
S09V000197		A	7440-09-7	Potassium	ug/g	88.8	<0.500	1.27E+03	n/a	n/a	n/a	n/a	100	n/a	
S09V000197		A	7439-91-0	Lanthanum	ug/g	99.7	<3.00E-03	6.27	n/a	n/a	n/a	n/a	0.602	n/a	
S09V000197		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	8.31	n/a	n/a	n/a	n/a	0.602	n/a	
S09V000197		A	7439-95-4	Magnesium	ug/g	92.2	<0.0500	4.15E+03	n/a	n/a	n/a	n/a	10.0	n/a	
S09V000197		A	7439-96-5	Manganese	ug/g	96.4	<3.00E-03	285	n/a	n/a	n/a	n/a	0.602	n/a	
S09V000197		A	7439-98-7	Molybdenum	ug/g	97.0	<0.0200	<4.01	n/a	n/a	n/a	n/a	4.01	n/a	U
S09V000197		A	7440-23-5	Sodium	ug/g	96.4	<0.100	225	n/a	n/a	n/a	n/a	20.1	n/a	
S09V000197		A	7440-00-8	Neodymium	ug/g	n/a	<0.0100	11.7	n/a	n/a	n/a	n/a	2.01	n/a	J
S09V000197		A	7723-14-0	Phosphorus	ug/g	94.8	<0.0500	464	n/a	n/a	n/a	n/a	10.0	n/a	
S09V000197		A	7704-34-9	Sulfur	ug/g	91.7	<0.100	39.6	n/a	n/a	n/a	n/a	20.1	n/a	J
S09V000197		A	7440-21-3	Silicon	ug/g	88.3	<0.0300	2.33E+03	n/a	n/a	n/a	n/a	6.02	n/a	b
S09V000197		A	7440-24-6	Strontium	ug/g	98.8	<3.00E-03	33.1	n/a	n/a	n/a	n/a	0.602	n/a	
S09V000197		A	7440-32-6	Titanium	ug/g	96.1	<5.00E-03	918	n/a	n/a	n/a	n/a	1.00	n/a	
S09V000197		A	7440-61-1	Uranium	ug/g	103	<0.100	<20.1	n/a	n/a	n/a	n/a	20.1	n/a	U
S09V000197		A	7440-65-5	Yttrium	ug/g	96.0	<2.00E-03	5.05	n/a	n/a	n/a	n/a	0.401	n/a	
S09V000197		A	7440-66-6	Zinc	ug/g	92.4	<5.00E-03	31.8	n/a	n/a	n/a	n/a	1.00	n/a	
S09V000197		A	7440-67-7	Zirconium	ug/g	93.8	<5.00E-03	7.51	n/a	n/a	n/a	n/a	1.00	n/a	J
S09V000197		A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-07	<7.02E-05	n/a	n/a	n/a	n/a	7.02E-05	n/a	U
S09V000197		A	TH-232	Thorium-232	ug/g	102	3.14E-05	1.92	n/a	n/a	n/a	n/a	1.71E-03	n/a	
S09V000197		A	13968-55-3	Uranium-233	ug/g	n/a	<5.00E-07	<1.00E-04	n/a	n/a	n/a	n/a	1.00E-04	n/a	U
S09V000197		A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-07	<5.02E-05	n/a	n/a	n/a	n/a	5.02E-05	n/a	U

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a - LCS Outside Range
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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT77
Sample Depth: 25-27

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000197		A	15117-96-1	Uranium-235	ug/g	101	<5.50E-07	3.56E-03	n/a	n/a	n/a	n/a	1.10E-04	n/a	
S09V000197		A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-07	5.50E-05	n/a	n/a	n/a	n/a	4.01E-05	n/a	J
S09V000197		A	13994-20-2	Neptunium-237	ug/g	112	<2.65E-06	<5.32E-04	n/a	n/a	n/a	n/a	5.32E-04	n/a	U
S09V000197		A	U-238	Uranium-238	ug/g	102	<2.75E-05	0.495	n/a	n/a	n/a	n/a	5.52E-03	n/a	
S09V000197		A	7440-22-4	Silver	ug/g	107	2.07E-04	0.0903	n/a	n/a	n/a	n/a	0.0321	n/a	BJ
S09V000197		A	7440-38-2	Arsenic	ug/g	114	<8.40E-04	2.22	n/a	n/a	n/a	n/a	0.169	n/a	
S09V000197		A	7440-48-4	Cobalt	ug/g	110	<4.00E-04	6.35	n/a	n/a	n/a	n/a	0.803	n/a	J
S09V000197		A	7440-43-9	Cadmium	ug/g	106	7.01E-05	0.0618	n/a	n/a	n/a	n/a	0.0120	n/a	BJ
S09V000197		A	7440-47-3	Chromium	ug/g	110	<2.80E-03	15.1	n/a	n/a	n/a	n/a	0.562	n/a	
S09V000197		A	7439-92-1	Lead	ug/g	116	<6.20E-04	3.62	n/a	n/a	n/a	n/a	0.124	n/a	
S09V000197		A	7440-36-0	Antimony	ug/g	110	<8.80E-04	<0.177	n/a	n/a	n/a	n/a	0.177	n/a	U
S09V000197		A	7782-49-2	Selenium	ug/g	112	<1.22E-03	<0.245	n/a	n/a	n/a	n/a	0.245	n/a	U
S09V000197		A	7440-28-0	Thallium	ug/g	111	6.92E-05	0.0797	n/a	n/a	n/a	n/a	0.0120	n/a	BJ
S09V000197		A	7440-62-2	Vanadium	ug/g	113	<4.80E-04	37.7	n/a	n/a	n/a	n/a	0.963	n/a	
S09V000197		A	7440-02-0	Nickel	ug/g	109	3.20E-04	30.6	n/a	n/a	n/a	n/a	0.482	n/a	
S09V000205		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.01E-07	<3.95E-07	<3.97E-07	n/a	n/a	n/a	3.95E-07	n/a	U
S09V000205		E	14596-10-2	Americium-241	uCi/g	102	<1.00E-06	<9.88E-07	<9.92E-07	n/a	n/a	n/a	9.88E-07	n/a	U
S09V000205		E	15510-73-3	Curium-242	uCi/g	n/a	<4.01E-07	<3.95E-07	<3.97E-07	n/a	n/a	n/a	3.95E-07	n/a	U
S09V000205		E	13981-37-8	Nickel-63	uCi/g	85.5	<6.14E-05	<5.48E-05	<6.76E-05	n/a	n/a	n/a	5.48E-05	n/a	U
S09V000205		E	PU-239/240	Plutonium-239/240	uCi/g	96.1	<7.24E-07	<6.15E-07	<5.49E-07	n/a	n/a	n/a	6.15E-07	n/a	U
S09V000205		E	13981-16-3	Plutonium-238	uCi/g	n/a	<7.24E-07	<6.15E-07	<5.49E-07	n/a	n/a	n/a	6.15E-07	n/a	U
S09V000205		E	15758-45-9	Selenium-79	uCi/g	n/a	<3.20E-06	1.97E-06	<1.57E-06	n/a	n/a	n/a	1.72E-06	-378.63	J
S09V000205		E	SR-89/90	Strontium-89/90	uCi/g	99.9	<1.56E-06	3.88E-06	3.49E-06	.000003685	10.4	n/a	3.05E-06	122.25	J
S09V000213		A	14133-76-7	Technetium-99	ug/g	104	<6.00E-06	<1.21E-03	n/a	n/a	n/a	n/a	1.21E-03	n/a	U
S09V000213		A	SN-117	Tin-117	ug/g	142	9.07E-04	<0.0445	n/a	n/a	n/a	n/a	0.0445	n/a	Ua
S09V000213		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<8.09E-04	n/a	n/a	n/a	n/a	8.09E-04	n/a	U
S09V000221		S	14798-03-9	Ammonium	ug/g	99.1	<0.0120	<0.476	n/a	n/a	n/a	n/a	0.476	n/a	U
S09V001332		W	16984-48-8	Fluoride	ug/g	97.1	<1.61E-03	1.87	n/a	n/a	n/a	n/a	0.0199	n/a	c

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT77
Sample Depth: 25-27

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001332		W	666-14-8	Glycolate	ug/g	99.8	<9.37E-03	<0.116	n/a	n/a	n/a	n/a	0.116	n/a	U
S09V001332		W	71-50-1	Acetate	ug/g	103	<6.04E-03	0.383	n/a	n/a	n/a	n/a	0.0747	n/a	Jc
S09V001332		W	12311-97-6	Formate	ug/g	101	<4.67E-03	0.534	n/a	n/a	n/a	n/a	0.0578	n/a	J
S09V001332		W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	5.43	n/a	n/a	n/a	n/a	0.124	n/a	
S09V001332		W	14797-65-0	Nitrite	ug/g	102	0.160	1.81	n/a	n/a	n/a	n/a	0.238	n/a	BJ
S09V001332		W	14808-79-8	Sulfate	ug/g	99.7	<0.0187	57.6	n/a	n/a	n/a	n/a	0.231	n/a	c
S09V001332		W	338-70-5	Oxalate	ug/g	98.8	<0.0231	0.431	n/a	n/a	n/a	n/a	0.286	n/a	J
S09V001332		W	14797-55-8	Nitrate	ug/g	97.0	0.0219	19.4	n/a	n/a	n/a	n/a	0.257	n/a	c
S09V001332		W	14265-44-2	Phosphate	ug/g	97.6	<0.0167	1.19	n/a	n/a	n/a	n/a	0.207	n/a	Jc

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT78
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000126			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.156	n/a	n/a	n/a	n/a	0.156	n/a	U
S09V000126			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.297	n/a	n/a	n/a	n/a	0.297	n/a	U
S09V000126			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.391	n/a	n/a	n/a	n/a	0.391	n/a	U
S09V000126			75-35-4	1,1-Dichloroethene	ug/kg	122	<0.340	<0.266	n/a	n/a	n/a	108	0.266	n/a	U
S09V000126			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.141	n/a	n/a	n/a	n/a	0.141	n/a	U
S09V000126			71-36-3	1-Butanol	ug/kg	105	<15.5	<12.1	n/a	n/a	n/a	97.9	12.1	n/a	U
S09V000126			108-10-1	Hexone	ug/kg	114	<1.76	<1.38	n/a	n/a	n/a	115	1.38	n/a	U
S09V000126			67-64-1	Acetone	ug/kg	114	<4.38	<3.42	n/a	n/a	n/a	122	3.42	n/a	U
S09V000126			71-43-2	Benzene	ug/kg	116	<0.320	<0.250	n/a	n/a	n/a	111	0.250	n/a	U
S09V000126			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.234	n/a	n/a	n/a	n/a	0.234	n/a	U
S09V000126			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.234	n/a	n/a	n/a	n/a	0.234	n/a	U
S09V000126			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.141	n/a	n/a	n/a	n/a	0.141	n/a	U
S09V000126			108-90-7	Chlorobenzene	ug/kg	117	<0.220	<0.172	n/a	n/a	n/a	108	0.172	n/a	U
S09V000126			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V000126			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.484	n/a	n/a	n/a	n/a	0.484	n/a	U
S09V000126			78-93-3	2-Butanone	ug/kg	114	<2.66	<2.08	n/a	n/a	n/a	115	2.08	n/a	U
S09V000126			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.266	n/a	n/a	n/a	n/a	0.266	n/a	U
S09V000126			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.312	n/a	n/a	n/a	n/a	0.312	n/a	U
S09V000126			108-88-3	Toluene	ug/kg	116	<0.240	<0.188	n/a	n/a	n/a	106	0.188	n/a	U
S09V000126			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.109	n/a	n/a	n/a	n/a	0.109	n/a	U
S09V000126			79-01-6	Trichloroethene	ug/kg	120	<0.300	<0.234	n/a	n/a	n/a	110	0.234	n/a	U
S09V000126			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S09V000126			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.203	n/a	n/a	n/a	n/a	0.203	n/a	U
S09V000126			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.281	n/a	n/a	n/a	n/a	0.281	n/a	U
S09V000126			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.391	n/a	n/a	n/a	n/a	0.391	n/a	U
S09V000126			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.23	n/a	n/a	n/a	n/a	1.23	n/a	U
S09V000126			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.759	n/a	n/a	n/a	n/a	0.759	n/a	U
S09V000126			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.691	n/a	n/a	n/a	n/a	0.691	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT78
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000126			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.52	n/a	n/a	n/a	n/a	1.52	n/a	U
S09V000126			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.156	n/a	n/a	n/a	n/a	0.156	n/a	U
S09V000126			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.328	n/a	n/a	n/a	n/a	0.328	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT80
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000174			%WATERA	%WATER-APD	%	n/a	n/a	5.453	5.652	5.5525	3.584	n/a	n/a	n/a	
S09V000174			57-12-5	Cyanide	ug/g	108	<0.0370	<4.46	<4.55	n/a	n/a	94.3	4.46	n/a	U
S09V000174			10198-40-0	Cobalt-60	uCi/g	99.1	<3.66E-07	<4.38E-07	n/a	n/a	n/a	n/a	4.38E-07	n/a	U
S09V000174			14234-35-6	Antimony-125	uCi/g	n/a	<8.57E-07	<1.09E-06	n/a	n/a	n/a	n/a	1.09E-06	n/a	U
S09V000174			10045-97-3	Cesium-137	uCi/g	104	<5.59E-07	1.64E-06	n/a	n/a	n/a	n/a	6.47E-07	27.15	
S09V000174			14683-23-9	Europium-152	uCi/g	n/a	<1.70E-06	<2.07E-06	n/a	n/a	n/a	n/a	2.07E-06	n/a	U
S09V000174			15585-10-1	Europium-154	uCi/g	n/a	<1.19E-06	<1.38E-06	n/a	n/a	n/a	n/a	1.38E-06	n/a	U
S09V000174			14391-16-3	Europium-155	uCi/g	n/a	<9.66E-07	<1.04E-06	n/a	n/a	n/a	n/a	1.04E-06	n/a	U
S09V000174			7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0100	n/a	n/a	n/a	n/a	0.0100	n/a	U
S09V000174			15046-84-1	Iodine-129	uCi/g	91.4	<2.74E-07	<1.95E-07	n/a	n/a	n/a	n/a	1.95E-07	n/a	U
S09V000174			PH	pH	unitless	n/a	n/a	9.02	9.00	9.01	0.222	n/a	0.0100	n/a	
S09V000174			18496-25-8	Sulfide	ug/g	98.2	<0.180	14.6	10.1	12.35	35.7	89.3	5.25	n/a	J
S09V000182		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	87.1	<77.4	<76.5	n/a	n/a	n/a	n/a	76.5	n/a	U
S09V000182		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
S09V000182		O	106-46-7	1,4-Dichlorobenzene	ug/kg	85.1	<113	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V000182		O	121-14-2	2,4-Dinitrotoluene	ug/kg	90.9	<38.1	<37.7	n/a	n/a	n/a	n/a	37.7	n/a	U
S09V000182		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
S09V000182		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
S09V000182		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
S09V000182		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
S09V000182		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S09V000182		O	83-32-9	Acenaphthene	ug/kg	97.0	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S09V000182		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
S09V000182		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
S09V000182		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
S09V000182		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	5.05E+03	n/a	n/a	n/a	n/a	583	n/a	J
S09V000182		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
S09V000182		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

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT80
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000182		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	85.1	<43.2	<42.7	n/a	n/a	n/a	n/a	42.7	n/a	U
S09V000182		O	95-57-8	2-Chlorophenol	ug/kg	85.5	<66.5	<65.7	n/a	n/a	n/a	n/a	65.7	n/a	U
S09V000182		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
S09V000182		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
S09V000182		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
S09V000182		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
S09V000182		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	77.9	<58.1	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S09V000182		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
S09V000182		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
S09V000182		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V000182		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
S09V000182		O	108-95-2	Phenol	ug/kg	86.4	<59.4	<58.7	n/a	n/a	n/a	n/a	58.7	n/a	U
S09V000182		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
S09V000182		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
S09V000182		O	100-02-7	4-Nitrophenol	ug/kg	89.8	<52.6	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S09V000182		O	87-86-5	Pentachlorophenol	ug/kg	88.8	<37.5	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S09V000182		O	129-00-0	Pyrene	ug/kg	93.3	<62.9	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S09V000182		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
S09V000182		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000182		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S09V000182		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S09V000182		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V000182		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<553	n/a	n/a	n/a	n/a	553	n/a	U
S09V000182		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S09V000182		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
S09V000190		W	14762-75-5	Carbon-14	uCi/g	98.6	<3.65E-07	<6.93E-05	n/a	n/a	n/a	n/a	6.93E-05	n/a	U
S09V000190		W	10028-17-8	Tritium	uCi/g	92.2	<3.28E-04	<4.11E-04	n/a	n/a	n/a	n/a	4.11E-04	n/a	U
S09V000198		A	7429-90-5	Aluminum	ug/g	93.0	<0.0300	3.79E+03	n/a	n/a	n/a	n/a	6.04	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT80
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000198		A	7440-39-3	Barium	ug/g	99.0	<3.00E-03	57.2	n/a	n/a	n/a	n/a	0.604	n/a	
S09V000198		A	7440-41-7	Beryllium	ug/g	103	<1.00E-03	<0.201	n/a	n/a	n/a	n/a	0.201	n/a	U
S09V000198		A	7440-70-2	Calcium	ug/g	93.0	<0.0500	6.53E+03	n/a	n/a	n/a	n/a	10.1	n/a	
S09V000198		A	7440-45-1	Cerium	ug/g	102	<0.0300	14.2	n/a	n/a	n/a	n/a	6.04	n/a	J
S09V000198		A	7440-50-8	Copper	ug/g	97.0	<5.00E-03	6.83	n/a	n/a	n/a	n/a	1.01	n/a	J
S09V000198		A	7439-89-6	Iron	ug/g	96.5	<5.00E-03	1.24E+04	n/a	n/a	n/a	n/a	1.01	n/a	
S09V000198		A	7440-09-7	Potassium	ug/g	88.8	<0.500	608	n/a	n/a	n/a	n/a	101	n/a	J
S09V000198		A	7439-91-0	Lanthanum	ug/g	99.7	<3.00E-03	6.94	n/a	n/a	n/a	n/a	0.604	n/a	
S09V000198		A	7439-93-2	Lithium	ug/g	100	<3.00E-03	5.35	n/a	n/a	n/a	n/a	0.604	n/a	J
S09V000198		A	7439-95-4	Magnesium	ug/g	92.2	<0.0500	2.65E+03	n/a	n/a	n/a	n/a	10.1	n/a	
S09V000198		A	7439-96-5	Manganese	ug/g	96.4	<3.00E-03	193	n/a	n/a	n/a	n/a	0.604	n/a	
S09V000198		A	7439-98-7	Molybdenum	ug/g	97.0	<0.0200	<4.03	n/a	n/a	n/a	n/a	4.03	n/a	U
S09V000198		A	7440-23-5	Sodium	ug/g	96.4	<0.100	249	n/a	n/a	n/a	n/a	20.1	n/a	
S09V000198		A	7440-00-8	Neodymium	ug/g	n/a	<0.0100	12.0	n/a	n/a	n/a	n/a	2.01	n/a	J
S09V000198		A	7723-14-0	Phosphorus	ug/g	94.8	<0.0500	510	n/a	n/a	n/a	n/a	10.1	n/a	
S09V000198		A	7704-34-9	Sulfur	ug/g	91.7	<0.100	53.5	n/a	n/a	n/a	n/a	20.1	n/a	J
S09V000198		A	7440-21-3	Silicon	ug/g	88.3	<0.0300	1.61E+03	n/a	n/a	n/a	n/a	6.04	n/a	b
S09V000198		A	7440-24-6	Strontium	ug/g	98.8	<3.00E-03	18.7	n/a	n/a	n/a	n/a	0.604	n/a	
S09V000198		A	7440-32-6	Titanium	ug/g	96.1	<5.00E-03	918	n/a	n/a	n/a	n/a	1.01	n/a	
S09V000198		A	7440-61-1	Uranium	ug/g	103	<0.100	<20.1	n/a	n/a	n/a	n/a	20.1	n/a	U
S09V000198		A	7440-65-5	Yttrium	ug/g	96.0	<2.00E-03	5.56	n/a	n/a	n/a	n/a	0.403	n/a	
S09V000198		A	7440-66-6	Zinc	ug/g	92.4	<5.00E-03	25.4	n/a	n/a	n/a	n/a	1.01	n/a	
S09V000198		A	7440-67-7	Zirconium	ug/g	93.8	<5.00E-03	6.57	n/a	n/a	n/a	n/a	1.01	n/a	J
S09V000198		A	14269-63-7	Thorium-230	ug/g	n/a	<3.50E-07	<7.05E-05	n/a	n/a	n/a	n/a	7.05E-05	n/a	U
S09V000198		A	TH-232	Thorium-232	ug/g	102	3.14E-05	1.88	n/a	n/a	n/a	n/a	1.71E-03	n/a	
S09V000198		A	13968-55-3	Uranium-233	ug/g	n/a	<5.00E-07	<1.01E-04	n/a	n/a	n/a	n/a	1.01E-04	n/a	U
S09V000198		A	13966-29-5	Uranium-234	ug/g	n/a	<2.50E-07	<5.03E-05	n/a	n/a	n/a	n/a	5.03E-05	n/a	U
S09V000198		A	15117-96-1	Uranium-235	ug/g	101	<5.50E-07	3.00E-03	n/a	n/a	n/a	n/a	1.11E-04	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT80
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000198		A	13982-70-2	Uranium-236	ug/g	n/a	<2.00E-07	<4.03E-05	n/a	n/a	n/a	n/a	4.03E-05	n/a	U
S09V000198		A	13994-20-2	Neptunium-237	ug/g	112	<2.65E-06	<5.34E-04	n/a	n/a	n/a	n/a	5.34E-04	n/a	U
S09V000198		A	U-238	Uranium-238	ug/g	102	<2.75E-05	0.446	n/a	n/a	n/a	n/a	5.54E-03	n/a	
S09V000198		A	7440-22-4	Silver	ug/g	107	2.07E-04	0.0812	n/a	n/a	n/a	n/a	0.0322	n/a	BJ
S09V000198		A	7440-38-2	Arsenic	ug/g	114	<8.40E-04	2.73	n/a	n/a	n/a	n/a	0.169	n/a	
S09V000198		A	7440-48-4	Cobalt	ug/g	110	<4.00E-04	4.62	n/a	n/a	n/a	n/a	0.805	n/a	J
S09V000198		A	7440-43-9	Cadmium	ug/g	106	7.01E-05	0.0402	n/a	n/a	n/a	n/a	0.0121	n/a	BJ
S09V000198		A	7440-47-3	Chromium	ug/g	110	<2.80E-03	12.6	n/a	n/a	n/a	n/a	0.564	n/a	
S09V000198		A	7439-92-1	Lead	ug/g	116	<6.20E-04	2.72	n/a	n/a	n/a	n/a	0.125	n/a	
S09V000198		A	7440-36-0	Antimony	ug/g	110	<8.80E-04	<0.177	n/a	n/a	n/a	n/a	0.177	n/a	U
S09V000198		A	7782-49-2	Selenium	ug/g	112	<1.22E-03	<0.246	n/a	n/a	n/a	n/a	0.246	n/a	U
S09V000198		A	7440-28-0	Thallium	ug/g	111	6.92E-05	0.0532	n/a	n/a	n/a	n/a	0.0121	n/a	BJ
S09V000198		A	7440-62-2	Vanadium	ug/g	113	<4.80E-04	33.9	n/a	n/a	n/a	n/a	0.967	n/a	
S09V000198		A	7440-02-0	Nickel	ug/g	109	3.20E-04	9.35	n/a	n/a	n/a	n/a	0.483	n/a	
S09V000206		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.01E-07	<4.00E-07	n/a	n/a	n/a	n/a	4.00E-07	n/a	U
S09V000206		E	14596-10-2	Americium-241	uCi/g	102	<1.00E-06	<1.00E-06	n/a	n/a	n/a	n/a	1.00E-06	n/a	U
S09V000206		E	15510-73-3	Curium-242	uCi/g	n/a	<4.01E-07	<4.00E-07	n/a	n/a	n/a	n/a	4.00E-07	n/a	U
S09V000206		E	13981-37-8	Nickel-63	uCi/g	85.5	<6.14E-05	<5.99E-05	n/a	n/a	n/a	n/a	5.99E-05	n/a	U
S09V000206		E	PU-239/240	Plutonium-239/240	uCi/g	96.1	<7.24E-07	<5.82E-07	n/a	n/a	n/a	n/a	5.82E-07	n/a	U
S09V000206		E	13981-16-3	Plutonium-238	uCi/g	n/a	<7.24E-07	<5.82E-07	n/a	n/a	n/a	n/a	5.82E-07	n/a	U
S09V000206		E	15758-45-9	Selenium-79	uCi/g	n/a	<3.20E-06	4.14E-06	n/a	n/a	n/a	n/a	1.66E-06	161.04	J
S09V000206		E	SR-89/90	Strontium-89/90	uCi/g	99.9	<1.56E-06	6.68E-06	n/a	n/a	n/a	n/a	1.72E-06	44.96	J
S09V000214		A	14133-76-7	Technetium-99	ug/g	104	<6.00E-06	<1.19E-03	n/a	n/a	n/a	n/a	1.19E-03	n/a	U
S09V000214		A	SN-117	Tin-117	ug/g	142	9.07E-04	<0.0435	n/a	n/a	n/a	n/a	0.0435	n/a	Ua
S09V000214		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.91E-04	n/a	n/a	n/a	n/a	7.91E-04	n/a	U
S09V000222		S	14798-03-9	Ammonium	ug/g	100	<0.0120	1.13	1.15	1.14	1.25	96.8	0.488	n/a	U
S09V001333		W	16984-48-8	Fluoride	ug/g	97.1	<1.61E-03	0.760	n/a	n/a	n/a	n/a	0.0201	n/a	c
S09V001333		W	666-14-8	Glycolate	ug/g	99.8	<9.37E-03	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT80
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001333		W	71-50-1	Acetate	ug/g	103	<6.04E-03	0.263	n/a	n/a	n/a	n/a	0.0754	n/a	Jc
S09V001333		W	12311-97-6	Formate	ug/g	101	<4.67E-03	0.380	n/a	n/a	n/a	n/a	0.0583	n/a	J
S09V001333		W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	2.38	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001333		W	14797-65-0	Nitrite	ug/g	102	0.160	1.15	n/a	n/a	n/a	n/a	0.240	n/a	BJ
S09V001333		W	14808-79-8	Sulfate	ug/g	99.7	<0.0187	21.8	n/a	n/a	n/a	n/a	0.233	n/a	c
S09V001333		W	338-70-5	Oxalate	ug/g	98.8	<0.0231	0.570	n/a	n/a	n/a	n/a	0.288	n/a	J
S09V001333		W	14797-55-8	Nitrate	ug/g	97.0	0.0219	4.40	n/a	n/a	n/a	n/a	0.260	n/a	Bc
S09V001333		W	14265-44-2	Phosphate	ug/g	97.6	<0.0167	0.634	n/a	n/a	n/a	n/a	0.208	n/a	Jc

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT81
Sample Depth: 56-58

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000127			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S09V000127			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.432	n/a	n/a	n/a	n/a	0.432	n/a	U
S09V000127			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.568	n/a	n/a	n/a	n/a	0.568	n/a	U
S09V000127			75-35-4	1,1-Dichloroethene	ug/kg	116	<0.340	<0.386	n/a	n/a	n/a	n/a	0.386	n/a	U
S09V000127			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.205	n/a	n/a	n/a	n/a	0.205	n/a	U
S09V000127			71-36-3	1-Butanol	ug/kg	85.4	<15.5	<17.7	n/a	n/a	n/a	n/a	17.7	n/a	UY
S09V000127			108-10-1	Hexone	ug/kg	98.5	<1.76	<2.00	n/a	n/a	n/a	n/a	2.00	n/a	U
S09V000127			67-64-1	Acetone	ug/kg	102	<4.38	<4.98	n/a	n/a	n/a	n/a	4.98	n/a	U
S09V000127			71-43-2	Benzene	ug/kg	109	<0.320	<0.364	n/a	n/a	n/a	n/a	0.364	n/a	U
S09V000127			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.341	n/a	n/a	n/a	n/a	0.341	n/a	U
S09V000127			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.341	n/a	n/a	n/a	n/a	0.341	n/a	U
S09V000127			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.205	n/a	n/a	n/a	n/a	0.205	n/a	U
S09V000127			108-90-7	Chlorobenzene	ug/kg	109	<0.220	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000127			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000127			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.705	n/a	n/a	n/a	n/a	0.705	n/a	U
S09V000127			78-93-3	2-Butanone	ug/kg	96.9	<2.66	<3.02	n/a	n/a	n/a	n/a	3.02	n/a	U
S09V000127			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.386	n/a	n/a	n/a	n/a	0.386	n/a	U
S09V000127			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.455	n/a	n/a	n/a	n/a	0.455	n/a	U
S09V000127			108-88-3	Toluene	ug/kg	108	<0.240	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000127			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V000127			79-01-6	Trichloroethene	ug/kg	111	<0.300	<0.341	n/a	n/a	n/a	n/a	0.341	n/a	U
S09V000127			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.727	n/a	n/a	n/a	n/a	0.727	n/a	U
S09V000127			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S09V000127			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.409	n/a	n/a	n/a	n/a	0.409	n/a	U
S09V000127			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.568	n/a	n/a	n/a	n/a	0.568	n/a	U
S09V000127			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.79	n/a	n/a	n/a	n/a	1.79	n/a	U
S09V000127			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<1.10	n/a	n/a	n/a	n/a	1.10	n/a	U
S09V000127			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<1.01	n/a	n/a	n/a	n/a	1.01	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT81
Sample Depth: 56-58

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000127			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<2.20	n/a	n/a	n/a	n/a	2.20	n/a	U
S09V000127			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S09V000127			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.477	n/a	n/a	n/a	n/a	0.477	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT83
Sample Depth: 56-58

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000175			%WATERA	%WATER-APD	%	n/a	n/a	3.836	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000175			57-12-5	Cyanide	ug/g	108	<0.0370	<5.07	n/a	n/a	n/a	n/a	5.07	n/a	U
S09V000175			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.94E-05	n/a	n/a	n/a	n/a	8.01E-06	28.59	
S09V000175			10198-40-0	Cobalt-60	uCi/g	99.1	<3.66E-07	<3.96E-07	n/a	n/a	n/a	n/a	3.96E-07	n/a	U
S09V000175			14234-35-6	Antimony-125	uCi/g	n/a	<8.57E-07	<1.13E-06	n/a	n/a	n/a	n/a	1.13E-06	n/a	U
S09V000175			10045-97-3	Cesium-137	uCi/g	104	<5.59E-07	<5.47E-07	n/a	n/a	n/a	n/a	5.47E-07	n/a	U
S09V000175			14683-23-9	Europium-152	uCi/g	n/a	<1.70E-06	<1.97E-06	n/a	n/a	n/a	n/a	1.97E-06	n/a	U
S09V000175			15585-10-1	Europium-154	uCi/g	n/a	<1.19E-06	<1.44E-06	n/a	n/a	n/a	n/a	1.44E-06	n/a	U
S09V000175			14391-16-3	Europium-155	uCi/g	n/a	<9.66E-07	<1.05E-06	n/a	n/a	n/a	n/a	1.05E-06	n/a	U
S09V000175			7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0110	n/a	n/a	n/a	n/a	0.0110	n/a	U
S09V000175			15046-84-1	Iodine-129	uCi/g	91.4	<2.74E-07	<2.42E-07	n/a	n/a	n/a	n/a	2.42E-07	n/a	U
S09V000175			PH	pH	unitless	n/a	n/a	9.20	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000175			18496-25-8	Sulfide	ug/g	98.2	<0.180	7.48	n/a	n/a	n/a	n/a	5.56	n/a	J
S09V000183		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	87.1	<77.4	<78.8	n/a	n/a	n/a	75.4	78.8	n/a	U
S09V000183		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<102	n/a	n/a	n/a	n/a	102	n/a	U
S09V000183		O	106-46-7	1,4-Dichlorobenzene	ug/kg	85.1	<113	<115	n/a	n/a	n/a	71.3	115	n/a	U
S09V000183		O	121-14-2	2,4-Dinitrotoluene	ug/kg	90.9	<38.1	<38.8	n/a	n/a	n/a	91.1	38.8	n/a	U
S09V000183		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<44.8	n/a	n/a	n/a	n/a	44.8	n/a	U
S09V000183		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<50.4	n/a	n/a	n/a	n/a	50.4	n/a	U
S09V000183		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<58.5	n/a	n/a	n/a	n/a	58.5	n/a	U
S09V000183		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<54.7	n/a	n/a	n/a	n/a	54.7	n/a	U
S09V000183		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S09V000183		O	83-32-9	Acenaphthene	ug/kg	97.0	<17.6	<17.9	n/a	n/a	n/a	88.4	17.9	n/a	U
S09V000183		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<38.5	n/a	n/a	n/a	n/a	38.5	n/a	U
S09V000183		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S09V000183		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.9	n/a	n/a	n/a	n/a	41.9	n/a	U
S09V000183		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<601	n/a	n/a	n/a	n/a	601	n/a	U
S09V000183		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.8	n/a	n/a	n/a	n/a	39.8	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT83
Sample Depth: 56-58

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000183		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S09V000183		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	85.1	<43.2	<44.0	n/a	n/a	n/a	84.9	44.0	n/a	U
S09V000183		O	95-57-8	2-Chlorophenol	ug/kg	85.5	<66.5	<67.7	n/a	n/a	n/a	73.9	67.7	n/a	U
S09V000183		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<82.8	n/a	n/a	n/a	n/a	82.8	n/a	U
S09V000183		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S09V000183		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<572	n/a	n/a	n/a	n/a	572	n/a	U
S09V000183		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S09V000183		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	77.9	<58.1	<59.1	n/a	n/a	n/a	69.3	59.1	n/a	U
S09V000183		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<36.0	n/a	n/a	n/a	n/a	36.0	n/a	U
S09V000183		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<70.9	n/a	n/a	n/a	n/a	70.9	n/a	U
S09V000183		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<114	n/a	n/a	n/a	n/a	114	n/a	U
S09V000183		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<51.9	n/a	n/a	n/a	n/a	51.9	n/a	U
S09V000183		O	108-95-2	Phenol	ug/kg	86.4	<59.4	<60.5	n/a	n/a	n/a	75.6	60.5	n/a	U
S09V000183		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<63.7	n/a	n/a	n/a	n/a	63.7	n/a	U
S09V000183		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<65.8	n/a	n/a	n/a	n/a	65.8	n/a	U
S09V000183		O	100-02-7	4-Nitrophenol	ug/kg	89.8	<52.6	<53.5	n/a	n/a	n/a	94.8	53.5	n/a	U
S09V000183		O	87-86-5	Pentachlorophenol	ug/kg	88.8	<37.5	<38.2	n/a	n/a	n/a	96.8	38.2	n/a	U
S09V000183		O	129-00-0	Pyrene	ug/kg	93.3	<62.9	<64.0	n/a	n/a	n/a	88.4	64.0	n/a	U
S09V000183		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<66.2	n/a	n/a	n/a	n/a	66.2	n/a	U
S09V000183		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V000183		O	128-37-0	BHT	ug/kg	n/a	<236	<240	n/a	n/a	n/a	n/a	240	n/a	U
S09V000183		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<186	n/a	n/a	n/a	n/a	186	n/a	U
S09V000183		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V000183		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<569	n/a	n/a	n/a	n/a	569	n/a	U
S09V000183		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<195	n/a	n/a	n/a	n/a	195	n/a	U
S09V000183		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<468	n/a	n/a	n/a	n/a	468	n/a	U
S09V000191		W	14762-75-5	Carbon-14	uCi/g	96.5	<6.77E-05	6.11E-05	n/a	n/a	n/a	n/a	5.00E-05	87.5	J
S09V000191		W	10028-17-8	Tritium	uCi/g	90.5	<3.05E-04	<3.04E-04	n/a	n/a	n/a	n/a	3.04E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT83
Sample Depth: 56-58

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000199		A	7429-90-5	Aluminum	ug/g	82.1	<0.0300	5.30E+03	n/a	n/a	n/a	n/a	5.62	n/a	
S09V000199		A	7440-39-3	Barium	ug/g	89.0	<3.00E-03	62.5	n/a	n/a	n/a	n/a	0.562	n/a	
S09V000199		A	7440-41-7	Beryllium	ug/g	92.2	<1.00E-03	<0.187	n/a	n/a	n/a	n/a	0.187	n/a	U
S09V000199		A	7440-70-2	Calcium	ug/g	80.8	0.0608	5.69E+03	n/a	n/a	n/a	n/a	9.37	n/a	
S09V000199		A	7440-45-1	Cerium	ug/g	96.1	<0.0300	18.2	n/a	n/a	n/a	n/a	5.62	n/a	J
S09V000199		A	7440-47-3	Chromium	ug/g	87.2	<5.00E-03	15.3	n/a	n/a	n/a	n/a	0.937	n/a	
S09V000199		A	7440-50-8	Copper	ug/g	88.5	<5.00E-03	9.79	n/a	n/a	n/a	n/a	0.937	n/a	
S09V000199		A	7440-53-1	Europium	ug/g	93.3	<5.00E-03	2.58	n/a	n/a	n/a	n/a	0.937	n/a	J
S09V000199		A	7439-89-6	Iron	ug/g	86.4	<5.00E-03	1.35E+04	n/a	n/a	n/a	n/a	0.937	n/a	
S09V000199		A	7440-09-7	Potassium	ug/g	81.8	<0.500	1.09E+03	n/a	n/a	n/a	n/a	93.7	n/a	
S09V000199		A	7439-91-0	Lanthanum	ug/g	89.3	<3.00E-03	7.27	n/a	n/a	n/a	n/a	0.562	n/a	
S09V000199		A	7439-93-2	Lithium	ug/g	90.3	<3.00E-03	8.07	n/a	n/a	n/a	n/a	0.562	n/a	
S09V000199		A	7439-95-4	Magnesium	ug/g	82.7	<0.0500	3.61E+03	n/a	n/a	n/a	n/a	9.37	n/a	
S09V000199		A	7439-96-5	Manganese	ug/g	85.8	<3.00E-03	266	n/a	n/a	n/a	n/a	0.562	n/a	
S09V000199		A	7439-98-7	Molybdenum	ug/g	88.9	<0.0200	<3.75	n/a	n/a	n/a	n/a	3.75	n/a	U
S09V000199		A	7440-23-5	Sodium	ug/g	89.6	<0.100	178	n/a	n/a	n/a	n/a	18.7	n/a	J
S09V000199		A	7440-00-8	Neodymium	ug/g	94.0	<0.0100	8.91	n/a	n/a	n/a	n/a	1.87	n/a	J
S09V000199		A	7723-14-0	Phosphorus	ug/g	89.7	<0.0500	413	n/a	n/a	n/a	n/a	9.37	n/a	
S09V000199		A	7704-34-9	Sulfur	ug/g	86.4	<0.100	44.7	n/a	n/a	n/a	n/a	18.7	n/a	J
S09V000199		A	7440-21-3	Silicon	ug/g	80.8	<0.0300	1.11E+03	n/a	n/a	n/a	n/a	5.62	n/a	b
S09V000199		A	7440-24-6	Strontium	ug/g	88.5	<3.00E-03	23.0	n/a	n/a	n/a	n/a	0.562	n/a	
S09V000199		A	7440-32-6	Titanium	ug/g	88.9	<5.00E-03	861	n/a	n/a	n/a	n/a	0.937	n/a	b
S09V000199		A	7440-61-1	Uranium	ug/g	97.7	<0.100	<18.7	n/a	n/a	n/a	n/a	18.7	n/a	U
S09V000199		A	7440-65-5	Yttrium	ug/g	92.0	<2.00E-03	4.69	n/a	n/a	n/a	n/a	0.375	n/a	
S09V000199		A	7440-66-6	Zinc	ug/g	84.8	<5.00E-03	29.4	n/a	n/a	n/a	n/a	0.937	n/a	
S09V000199		A	7440-67-7	Zirconium	ug/g	81.2	<5.00E-03	6.47	n/a	n/a	n/a	n/a	0.937	n/a	J
S09V000199		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.62E-05	n/a	n/a	n/a	n/a	2.62E-05	n/a	U
S09V000199		A	TH-232	Thorium-232	ug/g	102	1.29E-04	2.99	n/a	n/a	n/a	n/a	6.37E-04	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT83
Sample Depth: 56-58

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000199		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.24E-04	n/a	n/a	n/a	n/a	3.75E-05	n/a	J
S09V000199		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.87E-05	n/a	n/a	n/a	n/a	1.87E-05	n/a	U
S09V000199		A	15117-96-1	Uranium-235	ug/g	96.5	5.35E-07	3.03E-03	n/a	n/a	n/a	n/a	4.12E-05	n/a	
S09V000199		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.50E-05	n/a	n/a	n/a	n/a	1.50E-05	n/a	U
S09V000199		A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	7.19E-04	n/a	n/a	n/a	n/a	1.99E-04	n/a	J
S09V000199		A	U-238	Uranium-238	ug/g	102	1.34E-04	0.433	n/a	n/a	n/a	n/a	2.06E-03	n/a	B
S09V000199		A	7440-22-4	Silver	ug/g	99.6	<8.00E-04	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S09V000199		A	7440-38-2	Arsenic	ug/g	103	<8.40E-04	2.65	n/a	n/a	n/a	n/a	0.157	n/a	
S09V000199		A	7440-48-4	Cobalt	ug/g	104	<4.00E-04	4.05	n/a	n/a	n/a	n/a	0.0750	n/a	
S09V000199		A	7440-43-9	Cadmium	ug/g	103	<6.00E-05	0.0637	n/a	n/a	n/a	n/a	0.0112	n/a	J
S09V000199		A	7439-92-1	Lead	ug/g	102	<6.20E-04	4.03	n/a	n/a	n/a	n/a	0.116	n/a	
S09V000199		A	7440-36-0	Antimony	ug/g	109	<8.80E-04	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U
S09V000199		A	7782-49-2	Selenium	ug/g	107	2.00E-03	<0.229	n/a	n/a	n/a	n/a	0.229	n/a	U
S09V000199		A	7440-28-0	Thallium	ug/g	118	5.12E-04	0.0899	n/a	n/a	n/a	n/a	0.0112	n/a	BJ
S09V000199		A	7440-62-2	Vanadium	ug/g	95.2	<4.80E-04	31.5	n/a	n/a	n/a	n/a	0.900	n/a	
S09V000199		A	7440-02-0	Nickel	ug/g	98.2	<1.20E-03	12.6	n/a	n/a	n/a	n/a	0.225	n/a	
S09V000207		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.01E-07	<4.39E-07	n/a	n/a	n/a	n/a	4.39E-07	n/a	U
S09V000207		E	14596-10-2	Americium-241	uCi/g	102	<1.00E-06	<1.10E-06	n/a	n/a	n/a	n/a	1.10E-06	n/a	U
S09V000207		E	15510-73-3	Curium-242	uCi/g	n/a	<4.01E-07	<4.39E-07	n/a	n/a	n/a	n/a	4.39E-07	n/a	U
S09V000207		E	13981-37-8	Nickel-63	uCi/g	85.5	<6.14E-05	<8.50E-05	n/a	n/a	n/a	n/a	8.50E-05	n/a	U
S09V000207		E	PU-239/240	Plutonium-239/240	uCi/g	96.1	<7.24E-07	<6.99E-07	n/a	n/a	n/a	n/a	6.99E-07	n/a	U
S09V000207		E	13981-16-3	Plutonium-238	uCi/g	n/a	<7.24E-07	<6.99E-07	n/a	n/a	n/a	n/a	6.99E-07	n/a	U
S09V000207		E	15758-45-9	Selenium-79	uCi/g	n/a	<3.20E-06	2.11E-06	n/a	n/a	n/a	n/a	2.11E-06	-716.52	J
S09V000207		E	SR-89/90	Strontium-89/90	uCi/g	99.9	<1.56E-06	4.92E-06	n/a	n/a	n/a	n/a	2.06E-06	68.59	J
S09V000223		S	14798-03-9	Ammonium	ug/g	100	<0.0120	1.45	n/a	n/a	n/a	n/a	0.480	n/a	J
S09V001334		W	16984-48-8	Fluoride	ug/g	97.1	<1.61E-03	1.08	n/a	n/a	n/a	n/a	0.0198	n/a	c
S09V001334		W	666-14-8	Glycolate	ug/g	99.8	<9.37E-03	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S09V001334		W	71-50-1	Acetate	ug/g	103	<6.04E-03	0.246	n/a	n/a	n/a	n/a	0.0744	n/a	Jc

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C Farm WMA C
Data Summary Report

Sample Group: 20090160
Core Number: C6392
Customer Sample ID: B1YT83
Sample Depth: 56-58

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001334		W	12311-97-6	Formate	ug/g	101	<4.67E-03	0.482	n/a	n/a	n/a	n/a	0.0575	n/a	J
S09V001334		W	16887-00-6	Chloride	ug/g	97.1	<9.98E-03	4.30	n/a	n/a	n/a	n/a	0.123	n/a	
S09V001334		W	14797-65-0	Nitrite	ug/g	102	0.160	3.79	n/a	n/a	n/a	n/a	0.236	n/a	B
S09V001334		W	14808-79-8	Sulfate	ug/g	99.7	<0.0187	45.0	n/a	n/a	n/a	n/a	0.230	n/a	c
S09V001334		W	338-70-5	Oxalate	ug/g	98.8	<0.0231	1.64	n/a	n/a	n/a	n/a	0.285	n/a	J
S09V001334		W	14797-55-8	Nitrate	ug/g	97.0	0.0219	7.71	n/a	n/a	n/a	n/a	0.256	n/a	c
S09V001334		W	14265-44-2	Phosphate	ug/g	97.6	<0.0167	0.476	n/a	n/a	n/a	n/a	0.206	n/a	Jc
S09V001554		A	14133-76-7	Technetium-99	ug/g	96.4	<6.00E-06	<1.06E-03	<1.08E-03	n/a	n/a	100	1.06E-03	n/a	U
S09V001554		A	SN-117	Tin-117	ug/g	88.7	<2.20E-04	<0.0390	<0.0396	n/a	n/a	102	0.0390	n/a	U
S09V001554		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.09E-04	<7.20E-04	n/a	n/a	n/a	7.09E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT90
Sample Depth: 6-8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000378			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.132	n/a	n/a	n/a	n/a	0.132	n/a	U
S09V000378			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000378			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.329	n/a	n/a	n/a	n/a	0.329	n/a	U
S09V000378			75-35-4	1,1-Dichloroethene	ug/kg	116	<0.340	<0.224	n/a	n/a	n/a	106	0.224	n/a	U
S09V000378			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.118	n/a	n/a	n/a	n/a	0.118	n/a	U
S09V000378			71-36-3	1-Butanol	ug/kg	85.4	<15.5	<10.2	n/a	n/a	n/a	80.9	10.2	n/a	UY
S09V000378			108-10-1	Hexone	ug/kg	98.5	<1.76	<1.16	n/a	n/a	n/a	101	1.16	n/a	U
S09V000378			67-64-1	Acetone	ug/kg	102	<4.38	<2.88	n/a	n/a	n/a	104	2.88	n/a	U
S09V000378			71-43-2	Benzene	ug/kg	109	<0.320	<0.211	n/a	n/a	n/a	106	0.211	n/a	U
S09V000378			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.197	n/a	n/a	n/a	n/a	0.197	n/a	U
S09V000378			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.197	n/a	n/a	n/a	n/a	0.197	n/a	U
S09V000378			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.118	n/a	n/a	n/a	n/a	0.118	n/a	U
S09V000378			108-90-7	Chlorobenzene	ug/kg	109	<0.220	<0.145	n/a	n/a	n/a	103	0.145	n/a	U
S09V000378			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.158	n/a	n/a	n/a	n/a	0.158	n/a	U
S09V000378			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.408	n/a	n/a	n/a	n/a	0.408	n/a	U
S09V000378			78-93-3	2-Butanone	ug/kg	96.9	<2.66	<1.75	n/a	n/a	n/a	98.8	1.75	n/a	U
S09V000378			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S09V000378			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.263	n/a	n/a	n/a	n/a	0.263	n/a	U
S09V000378			108-88-3	Toluene	ug/kg	108	<0.240	<0.158	n/a	n/a	n/a	101	0.158	n/a	U
S09V000378			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.0921	n/a	n/a	n/a	n/a	0.0921	n/a	U
S09V000378			79-01-6	Trichloroethene	ug/kg	111	<0.300	<0.197	n/a	n/a	n/a	106	0.197	n/a	U
S09V000378			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.421	n/a	n/a	n/a	n/a	0.421	n/a	U
S09V000378			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.171	n/a	n/a	n/a	n/a	0.171	n/a	U
S09V000378			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.237	n/a	n/a	n/a	n/a	0.237	n/a	U
S09V000378			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.329	n/a	n/a	n/a	n/a	0.329	n/a	U
S09V000378			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.04	n/a	n/a	n/a	n/a	1.04	n/a	U
S09V000378			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.639	n/a	n/a	n/a	n/a	0.639	n/a	U
S09V000378			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.582	n/a	n/a	n/a	n/a	0.582	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT90
Sample Depth: 6-8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000378			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.28	n/a	n/a	n/a	n/a	1.28	n/a	U
S09V000378			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.132	n/a	n/a	n/a	n/a	0.132	n/a	U
S09V000378			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.276	n/a	n/a	n/a	n/a	0.276	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT92
Sample Depth: 6-8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000382			%WATERA	%WATER-APD	%	n/a	n/a	8.575	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000382			57-12-5	Cyanide	ug/g	107	<0.0370	<4.89	<4.95	n/a	n/a	97.7	4.89	n/a	U
S09V000382			7439-97-6	Mercury	ug/g	105	<1.00E-04	<0.0102	n/a	n/a	n/a	n/a	0.0102	n/a	U
S09V000382			PH	pH	unitless	n/a	n/a	8.42	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000382			18496-25-8	Sulfide	ug/g	87.3	<0.180	23.8	24.9	24.35	4.74	85.9	6.67	n/a	J
S09V000425		S	14798-03-9	Ammonium	ug/g	98.5	<0.120	<0.479	n/a	n/a	n/a	n/a	0.479	n/a	U
S09V000461		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	86.7	<77.4	<74.4	n/a	n/a	n/a	n/a	74.4	n/a	U
S09V000461		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<96.7	n/a	n/a	n/a	n/a	96.7	n/a	U
S09V000461		O	106-46-7	1,4-Dichlorobenzene	ug/kg	85.2	<113	<109	n/a	n/a	n/a	n/a	109	n/a	U
S09V000461		O	121-14-2	2,4-Dinitrotoluene	ug/kg	96.0	<38.1	<36.6	n/a	n/a	n/a	n/a	36.6	n/a	U
S09V000461		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<42.3	n/a	n/a	n/a	n/a	42.3	n/a	U
S09V000461		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S09V000461		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<55.2	n/a	n/a	n/a	n/a	55.2	n/a	U
S09V000461		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<51.6	n/a	n/a	n/a	n/a	51.6	n/a	U
S09V000461		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S09V000461		O	83-32-9	Acenaphthene	ug/kg	99.4	<17.6	<16.9	n/a	n/a	n/a	n/a	16.9	n/a	U
S09V000461		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.3	n/a	n/a	n/a	n/a	36.3	n/a	U
S09V000461		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.0	n/a	n/a	n/a	n/a	47.0	n/a	U
S09V000461		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.6	n/a	n/a	n/a	n/a	39.6	n/a	U
S09V000461		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	2.30E+03	n/a	n/a	n/a	n/a	567	n/a	J
S09V000461		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S09V000461		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<48.0	n/a	n/a	n/a	n/a	48.0	n/a	U
S09V000461		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	89.2	<43.2	<41.5	n/a	n/a	n/a	n/a	41.5	n/a	U
S09V000461		O	95-57-8	2-Chlorophenol	ug/kg	83.2	<66.5	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S09V000461		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<78.2	n/a	n/a	n/a	n/a	78.2	n/a	U
S09V000461		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S09V000461		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	908	863	n/a	n/a	n/a	n/a	540	n/a	BJ
S09V000461		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<45.8	n/a	n/a	n/a	n/a	45.8	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT92
Sample Depth: 6-8

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000461	O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	81.1	<58.1	<55.8	n/a	n/a	n/a	n/a	55.8	n/a	U
S09V000461	O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.0	n/a	n/a	n/a	n/a	34.0	n/a	U
S09V000461	O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<67.0	n/a	n/a	n/a	n/a	67.0	n/a	U
S09V000461	O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000461	O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S09V000461	O	108-95-2	Phenol	ug/kg	86.3	<59.4	<57.1	n/a	n/a	n/a	n/a	57.1	n/a	U
S09V000461	O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<60.1	n/a	n/a	n/a	n/a	60.1	n/a	U
S09V000461	O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<62.1	n/a	n/a	n/a	n/a	62.1	n/a	U
S09V000461	O	100-02-7	4-Nitrophenol	ug/kg	99.0	<52.6	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S09V000461	O	87-86-5	Pentachlorophenol	ug/kg	102	<37.5	<36.0	n/a	n/a	n/a	n/a	36.0	n/a	U
S09V000461	O	129-00-0	Pyrene	ug/kg	95.0	<62.9	<60.4	n/a	n/a	n/a	n/a	60.4	n/a	U
S09V000461	O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<62.4	n/a	n/a	n/a	n/a	62.4	n/a	U
S09V000461	O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V000461	O	128-37-0	BHT	ug/kg	n/a	<236	<226	n/a	n/a	n/a	n/a	226	n/a	U
S09V000461	O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<175	n/a	n/a	n/a	n/a	175	n/a	U
S09V000461	O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<102	n/a	n/a	n/a	n/a	102	n/a	U
S09V000461	O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<537	n/a	n/a	n/a	n/a	537	n/a	U
S09V000461	O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<184	n/a	n/a	n/a	n/a	184	n/a	U
S09V000461	O	78-83-1	Isobutanol	ug/kg	n/a	<460	<442	n/a	n/a	n/a	n/a	442	n/a	U
S09V000463	W	14762-75-5	Carbon-14	uCi/g	96.5	<6.77E-05	<6.47E-05	<5.12E-05	n/a	n/a	98.5	6.47E-05	n/a	U
S09V000463	W	10028-17-8	Tritium	uCi/g	90.5	<3.05E-04	<2.94E-04	<2.93E-04	n/a	n/a	91.5	2.94E-04	n/a	U
S09V000464	A	7429-90-5	Aluminum	ug/g	82.1	<0.0300	5.81E+03	5.52E+03	5665	5.08	404	5.82	n/a	
S09V000464	A	7440-39-3	Barium	ug/g	89.0	<3.00E-03	68.8	63.4	66.1	8.30	91.9	0.582	n/a	
S09V000464	A	7440-41-7	Beryllium	ug/g	92.2	<1.00E-03	<0.194	<0.195	n/a	n/a	93.4	0.194	n/a	U
S09V000464	A	7440-70-2	Calcium	ug/g	80.8	0.0608	7.25E+03	6.77E+03	7010	6.85	280	9.70	n/a	
S09V000464	A	7440-45-1	Cerium	ug/g	96.1	<0.0300	24.3	25.6	24.95	5.23	90.6	5.82	n/a	J
S09V000464	A	7440-47-3	Chromium	ug/g	87.2	<5.00E-03	6.80	n/a	n/a	n/a	88.5	0.970	n/a	
S09V000464	A	7440-50-8	Copper	ug/g	88.5	<5.00E-03	11.3	11.1	11.2	2.50	93.1	0.970	n/a	

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DSRHardcopyWOLimits 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT92
Sample Depth: 6-8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000464		A	7440-53-1	Europium	ug/g	93.3	<5.00E-03	3.27	3.56	3.415	8.59	88.2	0.970	n/a	J
S09V000464		A	7439-89-6	Iron	ug/g	86.4	<5.00E-03	2.07E+04	2.01E+04	20400	2.68	365	0.970	n/a	
S09V000464		A	7440-09-7	Potassium	ug/g	81.8	<0.500	1.05E+03	1.01E+03	1030	3.97	122	97.0	n/a	
S09V000464		A	7439-91-0	Lanthanum	ug/g	89.3	<3.00E-03	10.6	10.5	10.55	0.851	90.1	0.582	n/a	
S09V000464		A	7439-93-2	Lithium	ug/g	90.3	<3.00E-03	6.74	5.95	6.345	12.4	91.8	0.582	n/a	
S09V000464		A	7439-95-4	Magnesium	ug/g	82.7	<0.0500	4.34E+03	4.10E+03	4220	5.51	142	9.70	n/a	
S09V000464		A	7439-96-5	Manganese	ug/g	85.8	<3.00E-03	291	290	290.5	0.301	93.6	0.582	n/a	e
S09V000464		A	7439-98-7	Molybdenum	ug/g	88.9	<0.0200	<3.88	<3.89	n/a	n/a	89.2	3.88	n/a	U
S09V000464		A	7440-23-5	Sodium	ug/g	89.6	<0.100	323	269	296	18.4	118	19.4	n/a	e
S09V000464		A	7440-00-8	Neodymium	ug/g	94.0	<0.0100	13.3	13.2	13.25	0.998	89.6	1.94	n/a	J
S09V000464		A	7723-14-0	Phosphorus	ug/g	89.7	<0.0500	791	797	794	0.736	97.2	9.70	n/a	
S09V000464		A	7704-34-9	Sulfur	ug/g	86.4	<0.100	60.0	62.0	61	3.28	88.4	19.4	n/a	J
S09V000464		A	7440-21-3	Silicon	ug/g	80.8	<0.0300	1.13E+03	1.06E+03	1095	6.02	296	5.82	n/a	b
S09V000464		A	7440-31-5	Tin	ug/g	88.3	<0.0300	9.20	8.10	8.65	12.6	82.2	5.82	n/a	J
S09V000464		A	7440-24-6	Strontium	ug/g	88.5	<3.00E-03	26.3	24.5	25.4	7.23	90.1	0.582	n/a	
S09V000464		A	7440-25-7	Tantalum	ug/g	91.7	<0.0500	10.8	n/a	n/a	n/a	30.8	9.70	n/a	J
S09V000464		A	7440-32-6	Titanium	ug/g	88.9	<5.00E-03	1.75E+03	1.77E+03	1760	0.759	132	0.970	n/a	b
S09V000464		A	7440-61-1	Uranium	ug/g	97.7	<0.100	<19.4	<19.5	n/a	n/a	97.2	19.4	n/a	U
S09V000464		A	7440-65-5	Yttrium	ug/g	92.0	<2.00E-03	8.58	n/a	n/a	n/a	84.2	0.388	n/a	
S09V000464		A	7440-66-6	Zinc	ug/g	84.8	<5.00E-03	39.9	37.5	38.7	6.17	87.9	0.970	n/a	
S09V000464		A	7440-67-7	Zirconium	ug/g	81.2	<5.00E-03	16.3	16.3	16.3	0.334	81.4	0.970	n/a	
S09V000464		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.72E-05	<2.72E-05	n/a	n/a	n/a	2.72E-05	n/a	U
S09V000464		A	TH-232	Thorium-232	ug/g	102	1.29E-04	2.92	3.09	3.005	5.83	104	6.60E-04	n/a	
S09V000464		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.02E-04	9.48E-05	.0000984	7.24	n/a	3.88E-05	n/a	J
S09V000464		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.94E-05	2.65E-05	n/a	n/a	n/a	1.94E-05	n/a	U
S09V000464		A	15117-96-1	Uranium-235	ug/g	96.5	5.35E-07	3.81E-03	4.06E-03	.003935	6.40	105	4.27E-05	n/a	
S09V000464		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.55E-05	2.18E-05	n/a	n/a	n/a	1.55E-05	n/a	U
S09V000464		A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	<2.06E-04	<2.06E-04	n/a	n/a	109	2.06E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT92
Sample Depth: 6-8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000464		A	U-238	Uranium-238	ug/g	102	1.34E-04	0.578	0.573	.5755	0.977	105	2.14E-03	n/a	
S09V000464		A	7440-22-4	Silver	ug/g	99.6	<8.00E-04	0.160	<0.156	n/a	n/a	104	0.155	n/a	J
S09V000464		A	7440-38-2	Arsenic	ug/g	103	<8.40E-04	4.31	4.18	4.245	2.84	104	0.163	n/a	
S09V000464		A	7440-48-4	Cobalt	ug/g	104	<4.00E-04	6.37	6.10	6.235	4.28	107	0.0776	n/a	
S09V000464		A	7440-43-9	Cadmium	ug/g	103	<6.00E-05	0.0885	0.0925	.0905	4.44	105	0.0116	n/a	J
S09V000464		A	7439-92-1	Lead	ug/g	102	<6.20E-04	6.15	6.75	6.45	9.43	99.8	0.120	n/a	
S09V000464		A	7440-36-0	Antimony	ug/g	109	<8.80E-04	<0.171	<0.171	n/a	n/a	99.1	0.171	n/a	U
S09V000464		A	7782-49-2	Selenium	ug/g	107	2.00E-03	<0.237	<0.237	n/a	n/a	108	0.237	n/a	U
S09V000464		A	7440-28-0	Thallium	ug/g	118	5.12E-04	0.0924	0.128	.1102	32.3	111	0.0116	n/a	BJ
S09V000464		A	7440-62-2	Vanadium	ug/g	95.2	<4.80E-04	56.7	58.0	57.35	2.24	102	0.932	n/a	
S09V000464		A	7440-02-0	Nickel	ug/g	98.2	<1.20E-03	9.51	8.76	9.135	8.30	104	0.233	n/a	
S09V000466			10198-40-0	Cobalt-60	uCi/g	103	<5.98E-07	<6.62E-07	n/a	n/a	n/a	n/a	6.62E-07	n/a	U
S09V000466			14234-35-6	Antimony-125	uCi/g	n/a	<1.49E-06	<2.17E-06	n/a	n/a	n/a	n/a	2.17E-06	n/a	U
S09V000466			10045-97-3	Cesium-137	uCi/g	107	<6.41E-07	3.50E-05	n/a	n/a	n/a	n/a	8.14E-07	5.94	
S09V000466			14683-23-9	Europium-152	uCi/g	n/a	<2.70E-06	<3.19E-06	n/a	n/a	n/a	n/a	3.19E-06	n/a	U
S09V000466			15585-10-1	Europium-154	uCi/g	n/a	<1.77E-06	<1.92E-06	n/a	n/a	n/a	n/a	1.92E-06	n/a	U
S09V000466			14391-16-3	Europium-155	uCi/g	n/a	<8.82E-07	<1.26E-06	n/a	n/a	n/a	n/a	1.26E-06	n/a	U
S09V000466			15046-84-1	Iodine-129	uCi/g	100	<1.43E-07	<3.49E-07	n/a	n/a	n/a	n/a	3.49E-07	n/a	U
S09V000467		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.96E-07	<4.59E-07	n/a	n/a	n/a	n/a	4.59E-07	n/a	U
S09V000467		E	14596-10-2	Americium-241	uCi/g	101	<1.24E-06	<1.15E-06	n/a	n/a	n/a	n/a	1.15E-06	n/a	U
S09V000467		E	15510-73-3	Curium-242	uCi/g	n/a	<4.96E-07	<4.59E-07	n/a	n/a	n/a	n/a	4.59E-07	n/a	U
S09V000467		E	13981-37-8	Nickel-63	uCi/g	83.8	<4.99E-05	<4.57E-05	n/a	n/a	n/a	n/a	4.57E-05	n/a	U
S09V000467		E	PU-239/240	Plutonium-239/240	uCi/g	100	<8.52E-07	<7.50E-07	n/a	n/a	n/a	n/a	7.50E-07	n/a	U
S09V000467		E	13981-16-3	Plutonium-238	uCi/g	n/a	<8.52E-07	<7.50E-07	n/a	n/a	n/a	n/a	7.50E-07	n/a	U
S09V000467		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.72E-06	<1.23E-06	n/a	n/a	n/a	n/a	1.23E-06	n/a	U
S09V000467		E	SR-89/90	Strontium-89/90	uCi/g	89.8	<1.68E-06	5.28E-05	n/a	n/a	n/a	n/a	1.29E-06	9.48	
S09V001339		W	16984-48-8	Fluoride	ug/g	98.7	<1.61E-03	2.39	n/a	n/a	n/a	n/a	0.0197	n/a	
S09V001339		W	666-14-8	Glycolate	ug/g	102	<9.37E-03	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT92
Sample Depth: 6-8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001339		W	71-50-1	Acetate	ug/g	105	<6.04E-03	0.407	n/a	n/a	n/a	n/a	0.0739	n/a	J
S09V001339		W	12311-97-6	Formate	ug/g	103	<4.67E-03	0.373	n/a	n/a	n/a	n/a	0.0571	n/a	BJ
S09V001339		W	16887-00-6	Chloride	ug/g	98.4	0.0122	3.71	n/a	n/a	n/a	n/a	0.122	n/a	c
S09V001339		W	14797-65-0	Nitrite	ug/g	104	<0.0192	1.67	n/a	n/a	n/a	n/a	0.235	n/a	J
S09V001339		W	14808-79-8	Sulfate	ug/g	101	<0.0187	6.69	n/a	n/a	n/a	n/a	0.229	n/a	c
S09V001339		W	338-70-5	Oxalate	ug/g	101	<0.0231	0.728	n/a	n/a	n/a	n/a	0.283	n/a	J
S09V001339		W	14797-55-8	Nitrate	ug/g	99.3	<0.0208	3.70	n/a	n/a	n/a	n/a	0.254	n/a	c
S09V001339		W	14265-44-2	Phosphate	ug/g	99.8	<0.0167	3.10	n/a	n/a	n/a	n/a	0.204	n/a	
S09V001555		A	14133-76-7	Technetium-99	ug/g	102	2.25E-05	<1.04E-03	<1.14E-03	n/a	n/a	98.5	1.04E-03	n/a	U
S09V001555		A	SN-117	Tin-117	ug/g	111	<2.20E-04	<0.0380	<0.0419	n/a	n/a	90.2	0.0380	n/a	U
S09V001555		A	15832-50-5	Tin-126	ug/g	n/a	1.03E-05	<6.91E-04	1.70E-03	n/a	n/a	n/a	6.91E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT93
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000383			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000383			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.317	n/a	n/a	n/a	n/a	0.317	n/a	U
S09V000383			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.417	n/a	n/a	n/a	n/a	0.417	n/a	U
S09V000383			75-35-4	1,1-Dichloroethene	ug/kg	116	<0.340	<0.283	n/a	n/a	n/a	n/a	0.283	n/a	U
S09V000383			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S09V000383			71-36-3	1-Butanol	ug/kg	85.4	<15.5	<13.0	n/a	n/a	n/a	n/a	13.0	n/a	UY
S09V000383			108-10-1	Hexone	ug/kg	98.5	<1.76	<1.47	n/a	n/a	n/a	n/a	1.47	n/a	U
S09V000383			67-64-1	Acetone	ug/kg	102	<4.38	<3.65	n/a	n/a	n/a	n/a	3.65	n/a	U
S09V000383			71-43-2	Benzene	ug/kg	109	<0.320	<0.267	n/a	n/a	n/a	n/a	0.267	n/a	U
S09V000383			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000383			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000383			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S09V000383			108-90-7	Chlorobenzene	ug/kg	109	<0.220	<0.183	n/a	n/a	n/a	n/a	0.183	n/a	U
S09V000383			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000383			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.517	n/a	n/a	n/a	n/a	0.517	n/a	U
S09V000383			78-93-3	2-Butanone	ug/kg	96.9	<2.66	<2.22	n/a	n/a	n/a	n/a	2.22	n/a	U
S09V000383			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.283	n/a	n/a	n/a	n/a	0.283	n/a	U
S09V000383			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.333	n/a	n/a	n/a	n/a	0.333	n/a	U
S09V000383			108-88-3	Toluene	ug/kg	108	<0.240	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000383			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V000383			79-01-6	Trichloroethene	ug/kg	111	<0.300	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000383			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.533	n/a	n/a	n/a	n/a	0.533	n/a	U
S09V000383			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.217	n/a	n/a	n/a	n/a	0.217	n/a	U
S09V000383			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.300	n/a	n/a	n/a	n/a	0.300	n/a	U
S09V000383			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.417	n/a	n/a	n/a	n/a	0.417	n/a	U
S09V000383			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.31	n/a	n/a	n/a	n/a	1.31	n/a	U
S09V000383			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.810	n/a	n/a	n/a	n/a	0.810	n/a	U
S09V000383			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.738	n/a	n/a	n/a	n/a	0.738	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT93
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000383			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.62	n/a	n/a	n/a	n/a	1.62	n/a	U
S09V000383			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000383			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.350	n/a	n/a	n/a	n/a	0.350	n/a	U
S09V000468			15046-84-1	Iodine-129	uCi/g	100	<1.43E-07	<4.42E-07	n/a	n/a	n/a	n/a	4.42E-07	n/a	U
S09V000469		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.96E-07	<7.87E-07	n/a	n/a	n/a	n/a	7.87E-07	n/a	U
S09V000469		E	14596-10-2	Americium-241	uCi/g	101	<1.24E-06	<1.97E-06	n/a	n/a	n/a	n/a	1.97E-06	n/a	U
S09V000469		E	15510-73-3	Curium-242	uCi/g	n/a	<4.96E-07	<7.87E-07	n/a	n/a	n/a	n/a	7.87E-07	n/a	U
S09V000469		E	13981-37-8	Nickel-63	uCi/g	83.8	<4.99E-05	<9.42E-05	n/a	n/a	n/a	n/a	9.42E-05	n/a	U
S09V000469		E	PU-239/240	Plutonium-239/240	uCi/g	100	<8.52E-07	<1.47E-06	n/a	n/a	n/a	n/a	1.47E-06	n/a	U
S09V000469		E	13981-16-3	Plutonium-238	uCi/g	n/a	<8.52E-07	<1.47E-06	n/a	n/a	n/a	n/a	1.47E-06	n/a	U
S09V000469		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.72E-06	<2.94E-06	n/a	n/a	n/a	n/a	2.94E-06	n/a	U
S09V000469		E	SR-89/90	Strontium-89/90	uCi/g	89.8	<1.68E-06	1.41E-04	n/a	n/a	n/a	n/a	2.11E-06	7.22	

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT96
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000386			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V000386			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.284	n/a	n/a	n/a	n/a	0.284	n/a	U
S09V000386			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.373	n/a	n/a	n/a	n/a	0.373	n/a	U
S09V000386			75-35-4	1,1-Dichloroethene	ug/kg	116	<0.340	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000386			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.134	n/a	n/a	n/a	n/a	0.134	n/a	U
S09V000386			71-36-3	1-Butanol	ug/kg	85.4	<15.5	<11.6	n/a	n/a	n/a	n/a	11.6	n/a	UY
S09V000386			108-10-1	Hexone	ug/kg	98.5	<1.76	<1.31	n/a	n/a	n/a	n/a	1.31	n/a	U
S09V000386			67-64-1	Acetone	ug/kg	102	<4.38	4.46	n/a	n/a	n/a	n/a	3.27	n/a	J
S09V000386			71-43-2	Benzene	ug/kg	109	<0.320	<0.239	n/a	n/a	n/a	n/a	0.239	n/a	U
S09V000386			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S09V000386			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S09V000386			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.134	n/a	n/a	n/a	n/a	0.134	n/a	U
S09V000386			108-90-7	Chlorobenzene	ug/kg	109	<0.220	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V000386			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V000386			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.463	n/a	n/a	n/a	n/a	0.463	n/a	U
S09V000386			78-93-3	2-Butanone	ug/kg	96.9	<2.66	<1.99	n/a	n/a	n/a	n/a	1.99	n/a	U
S09V000386			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000386			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.299	n/a	n/a	n/a	n/a	0.299	n/a	U
S09V000386			108-88-3	Toluene	ug/kg	108	<0.240	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V000386			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S09V000386			79-01-6	Trichloroethene	ug/kg	111	<0.300	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S09V000386			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.478	n/a	n/a	n/a	n/a	0.478	n/a	U
S09V000386			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V000386			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.269	n/a	n/a	n/a	n/a	0.269	n/a	U
S09V000386			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.373	n/a	n/a	n/a	n/a	0.373	n/a	U
S09V000386			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.18	n/a	n/a	n/a	n/a	1.18	n/a	U
S09V000386			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.725	n/a	n/a	n/a	n/a	0.725	n/a	U
S09V000386			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.660	n/a	n/a	n/a	n/a	0.660	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT96
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000386			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.45	n/a	n/a	n/a	n/a	1.45	n/a	U
S09V000386			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V000386			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.313	n/a	n/a	n/a	n/a	0.313	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT98
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000392			%WATERA	%WATER-APD	%	n/a	n/a	7.066	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000392			57-12-5	Cyanide	ug/g	107	<0.0370	<4.90	n/a	n/a	n/a	n/a	4.90	n/a	U
S09V000392			7439-97-6	Mercury	ug/g	108	<1.00E-04	0.0132	n/a	n/a	n/a	n/a	0.0107	n/a	J
S09V000392			PH	pH	unitless	n/a	n/a	8.90	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000392			18496-25-8	Sulfide	ug/g	87.3	<0.180	27.0	n/a	n/a	n/a	n/a	6.25	n/a	J
S09V000426		S	14798-03-9	Ammonium	ug/g	98.5	<0.120	<0.477	<0.471	n/a	n/a	98.5	0.477	n/a	U
S09V000462		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	86.7	<77.4	<75.4	n/a	n/a	n/a	n/a	75.4	n/a	U
S09V000462		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<98.1	n/a	n/a	n/a	n/a	98.1	n/a	U
S09V000462		O	106-46-7	1,4-Dichlorobenzene	ug/kg	85.2	<113	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V000462		O	121-14-2	2,4-Dinitrotoluene	ug/kg	96.0	<38.1	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S09V000462		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<42.9	n/a	n/a	n/a	n/a	42.9	n/a	U
S09V000462		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.2	n/a	n/a	n/a	n/a	48.2	n/a	U
S09V000462		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.0	n/a	n/a	n/a	n/a	56.0	n/a	U
S09V000462		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S09V000462		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<50.1	n/a	n/a	n/a	n/a	50.1	n/a	U
S09V000462		O	83-32-9	Acenaphthene	ug/kg	99.4	<17.6	<17.1	n/a	n/a	n/a	n/a	17.1	n/a	U
S09V000462		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U
S09V000462		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.6	n/a	n/a	n/a	n/a	47.6	n/a	U
S09V000462		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.1	n/a	n/a	n/a	n/a	40.1	n/a	U
S09V000462		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	2.04E+03	n/a	n/a	n/a	n/a	575	n/a	J
S09V000462		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.1	n/a	n/a	n/a	n/a	38.1	n/a	U
S09V000462		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<48.7	n/a	n/a	n/a	n/a	48.7	n/a	U
S09V000462		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	89.2	<43.2	<42.1	n/a	n/a	n/a	n/a	42.1	n/a	U
S09V000462		O	95-57-8	2-Chlorophenol	ug/kg	83.2	<66.5	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	U
S09V000462		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<79.3	n/a	n/a	n/a	n/a	79.3	n/a	U
S09V000462		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S09V000462		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	908	645	n/a	n/a	n/a	n/a	548	n/a	BJ
S09V000462		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.5	n/a	n/a	n/a	n/a	46.5	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT98
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000462		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	81.1	<58.1	<56.6	n/a	n/a	n/a	n/a	56.6	n/a	U
S09V000462		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.5	n/a	n/a	n/a	n/a	34.5	n/a	U
S09V000462		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<67.9	n/a	n/a	n/a	n/a	67.9	n/a	U
S09V000462		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<109	n/a	n/a	n/a	n/a	109	n/a	U
S09V000462		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S09V000462		O	108-95-2	Phenol	ug/kg	86.3	<59.4	<57.8	n/a	n/a	n/a	n/a	57.8	n/a	U
S09V000462		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.0	n/a	n/a	n/a	n/a	61.0	n/a	U
S09V000462		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<62.9	n/a	n/a	n/a	n/a	62.9	n/a	U
S09V000462		O	100-02-7	4-Nitrophenol	ug/kg	99.0	<52.6	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S09V000462		O	87-86-5	Pentachlorophenol	ug/kg	102	<37.5	<36.5	n/a	n/a	n/a	n/a	36.5	n/a	U
S09V000462		O	129-00-0	Pyrene	ug/kg	95.0	<62.9	<61.3	n/a	n/a	n/a	n/a	61.3	n/a	U
S09V000462		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<63.3	n/a	n/a	n/a	n/a	63.3	n/a	U
S09V000462		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V000462		O	128-37-0	BHT	ug/kg	n/a	<236	<229	n/a	n/a	n/a	n/a	229	n/a	U
S09V000462		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<178	n/a	n/a	n/a	n/a	178	n/a	U
S09V000462		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V000462		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<545	n/a	n/a	n/a	n/a	545	n/a	U
S09V000462		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<186	n/a	n/a	n/a	n/a	186	n/a	U
S09V000462		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<448	n/a	n/a	n/a	n/a	448	n/a	U
S09V000470		W	14762-75-5	Carbon-14	uCi/g	96.5	<6.77E-05	<5.08E-05	n/a	n/a	n/a	n/a	5.08E-05	n/a	U
S09V000470		W	10028-17-8	Tritium	uCi/g	90.5	<3.05E-04	<2.95E-04	n/a	n/a	n/a	n/a	2.95E-04	n/a	U
S09V000471		A	7429-90-5	Aluminum	ug/g	82.1	<0.0300	5.71E+03	n/a	n/a	n/a	n/a	5.81	n/a	
S09V000471		A	7440-39-3	Barium	ug/g	89.0	<3.00E-03	65.5	n/a	n/a	n/a	n/a	0.581	n/a	
S09V000471		A	7440-41-7	Beryllium	ug/g	92.2	<1.00E-03	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V000471		A	7440-70-2	Calcium	ug/g	80.8	0.0608	7.85E+03	n/a	n/a	n/a	n/a	9.69	n/a	
S09V000471		A	7440-45-1	Cerium	ug/g	96.1	<0.0300	25.1	n/a	n/a	n/a	n/a	5.81	n/a	J
S09V000471		A	7440-47-3	Chromium	ug/g	87.2	<5.00E-03	6.71	n/a	n/a	n/a	n/a	0.969	n/a	
S09V000471		A	7440-50-8	Copper	ug/g	88.5	<5.00E-03	10.8	n/a	n/a	n/a	n/a	0.969	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT98
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000471		A	7440-53-1	Europium	ug/g	93.3	<5.00E-03	3.89	n/a	n/a	n/a	n/a	0.969	n/a	J
S09V000471		A	7439-89-6	Iron	ug/g	86.4	<5.00E-03	2.16E+04	n/a	n/a	n/a	n/a	0.969	n/a	
S09V000471		A	7440-09-7	Potassium	ug/g	81.8	<0.500	1.06E+03	n/a	n/a	n/a	n/a	96.9	n/a	
S09V000471		A	7439-91-0	Lanthanum	ug/g	89.3	<3.00E-03	10.6	n/a	n/a	n/a	n/a	0.581	n/a	
S09V000471		A	7439-93-2	Lithium	ug/g	90.3	<3.00E-03	6.55	n/a	n/a	n/a	n/a	0.581	n/a	
S09V000471		A	7439-95-4	Magnesium	ug/g	82.7	<0.0500	4.39E+03	n/a	n/a	n/a	n/a	9.69	n/a	
S09V000471		A	7439-96-5	Manganese	ug/g	85.8	<3.00E-03	306	n/a	n/a	n/a	n/a	0.581	n/a	
S09V000471		A	7439-98-7	Molybdenum	ug/g	88.9	<0.0200	<3.87	n/a	n/a	n/a	n/a	3.87	n/a	U
S09V000471		A	7440-23-5	Sodium	ug/g	89.6	<0.100	337	n/a	n/a	n/a	n/a	19.4	n/a	
S09V000471		A	7440-00-8	Neodymium	ug/g	94.0	<0.0100	12.7	n/a	n/a	n/a	n/a	1.94	n/a	J
S09V000471		A	7723-14-0	Phosphorus	ug/g	89.7	<0.0500	870	n/a	n/a	n/a	n/a	9.69	n/a	
S09V000471		A	7704-34-9	Sulfur	ug/g	86.4	<0.100	65.3	n/a	n/a	n/a	n/a	19.4	n/a	J
S09V000471		A	7440-21-3	Silicon	ug/g	80.8	<0.0300	1.23E+03	n/a	n/a	n/a	n/a	5.81	n/a	b
S09V000471		A	7440-24-6	Strontium	ug/g	88.5	<3.00E-03	27.6	n/a	n/a	n/a	n/a	0.581	n/a	
S09V000471		A	7440-32-6	Titanium	ug/g	88.9	<5.00E-03	1.80E+03	n/a	n/a	n/a	n/a	0.969	n/a	b
S09V000471		A	7440-61-1	Uranium	ug/g	97.7	<0.100	<19.4	n/a	n/a	n/a	n/a	19.4	n/a	U
S09V000471		A	7440-65-5	Yttrium	ug/g	92.0	<2.00E-03	9.01	n/a	n/a	n/a	n/a	0.387	n/a	
S09V000471		A	7440-66-6	Zinc	ug/g	84.8	<5.00E-03	39.9	n/a	n/a	n/a	n/a	0.969	n/a	
S09V000471		A	7440-67-7	Zirconium	ug/g	81.2	<5.00E-03	16.9	n/a	n/a	n/a	n/a	0.969	n/a	
S09V000471		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.71E-05	n/a	n/a	n/a	n/a	2.71E-05	n/a	U
S09V000471		A	TH-232	Thorium-232	ug/g	102	1.29E-04	3.42	n/a	n/a	n/a	n/a	6.59E-04	n/a	
S09V000471		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	8.08E-05	n/a	n/a	n/a	n/a	3.87E-05	n/a	J
S09V000471		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	4.55E-05	n/a	n/a	n/a	n/a	1.94E-05	n/a	J
S09V000471		A	15117-96-1	Uranium-235	ug/g	96.5	5.35E-07	3.32E-03	n/a	n/a	n/a	n/a	4.26E-05	n/a	
S09V000471		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.55E-05	n/a	n/a	n/a	n/a	1.55E-05	n/a	U
S09V000471		A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	<2.05E-04	n/a	n/a	n/a	n/a	2.05E-04	n/a	U
S09V000471		A	U-238	Uranium-238	ug/g	102	1.34E-04	0.497	n/a	n/a	n/a	n/a	2.13E-03	n/a	B
S09V000471		A	7440-22-4	Silver	ug/g	99.6	<8.00E-04	0.156	n/a	n/a	n/a	n/a	0.155	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT98
Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000471	A	7440-38-2	Arsenic	ug/g	103	<8.40E-04	4.38	n/a	n/a	n/a	n/a	0.163	n/a	
S09V000471	A	7440-48-4	Cobalt	ug/g	104	<4.00E-04	6.50	n/a	n/a	n/a	n/a	0.0775	n/a	
S09V000471	A	7440-43-9	Cadmium	ug/g	103	<6.00E-05	0.103	n/a	n/a	n/a	n/a	0.0116	n/a	J
S09V000471	A	7439-92-1	Lead	ug/g	102	<6.20E-04	8.52	n/a	n/a	n/a	n/a	0.120	n/a	
S09V000471	A	7440-36-0	Antimony	ug/g	109	<8.80E-04	<0.170	n/a	n/a	n/a	n/a	0.170	n/a	U
S09V000471	A	7782-49-2	Selenium	ug/g	107	2.00E-03	<0.236	n/a	n/a	n/a	n/a	0.236	n/a	U
S09V000471	A	7440-28-0	Thallium	ug/g	118	5.12E-04	0.0943	n/a	n/a	n/a	n/a	0.0116	n/a	BJ
S09V000471	A	7440-62-2	Vanadium	ug/g	95.2	<4.80E-04	57.9	n/a	n/a	n/a	n/a	0.930	n/a	
S09V000471	A	7440-02-0	Nickel	ug/g	98.2	<1.20E-03	8.76	n/a	n/a	n/a	n/a	0.232	n/a	
S09V000473		10198-40-0	Cobalt-60	uCi/g	103	<5.98E-07	<7.14E-07	n/a	n/a	n/a	n/a	7.14E-07	n/a	U
S09V000473		14234-35-6	Antimony-125	uCi/g	n/a	<1.49E-06	<1.78E-06	n/a	n/a	n/a	n/a	1.78E-06	n/a	U
S09V000473		10045-97-3	Cesium-137	uCi/g	107	<6.41E-07	6.07E-06	n/a	n/a	n/a	n/a	8.20E-07	12.23	
S09V000473		14683-23-9	Europium-152	uCi/g	n/a	<2.70E-06	<3.23E-06	n/a	n/a	n/a	n/a	3.23E-06	n/a	U
S09V000473		15585-10-1	Europium-154	uCi/g	n/a	<1.77E-06	<2.10E-06	n/a	n/a	n/a	n/a	2.10E-06	n/a	U
S09V000473		14391-16-3	Europium-155	uCi/g	n/a	<8.82E-07	<1.16E-06	n/a	n/a	n/a	n/a	1.16E-06	n/a	U
S09V000473		15046-84-1	Iodine-129	uCi/g	100	<1.43E-07	<4.20E-07	n/a	n/a	n/a	n/a	4.20E-07	n/a	U
S09V000474	E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.96E-07	<3.60E-07	n/a	n/a	n/a	n/a	3.60E-07	n/a	U
S09V000474	E	14596-10-2	Americium-241	uCi/g	101	<1.24E-06	<9.01E-07	n/a	n/a	n/a	n/a	9.01E-07	n/a	U
S09V000474	E	15510-73-3	Curium-242	uCi/g	n/a	<4.96E-07	<3.60E-07	n/a	n/a	n/a	n/a	3.60E-07	n/a	U
S09V000474	E	13981-37-8	Nickel-63	uCi/g	83.8	<4.99E-05	<4.84E-05	n/a	n/a	n/a	n/a	4.84E-05	n/a	U
S09V000474	E	PU-239/240	Plutonium-239/240	uCi/g	100	<8.52E-07	<6.14E-07	n/a	n/a	n/a	n/a	6.14E-07	n/a	U
S09V000474	E	13981-16-3	Plutonium-238	uCi/g	n/a	<8.52E-07	<6.14E-07	n/a	n/a	n/a	n/a	6.14E-07	n/a	U
S09V000474	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.72E-06	<2.09E-06	n/a	n/a	n/a	n/a	2.09E-06	n/a	U
S09V000474	E	SR-89/90	Strontium-89/90	uCi/g	89.8	<1.68E-06	5.37E-05	n/a	n/a	n/a	n/a	1.39E-06	9.78	
S09V001340	W	16984-48-8	Fluoride	ug/g	98.7	<1.61E-03	2.04	n/a	n/a	n/a	n/a	0.0195	n/a	
S09V001340	W	666-14-8	Glycolate	ug/g	102	<9.37E-03	<0.113	n/a	n/a	n/a	n/a	0.113	n/a	U
S09V001340	W	71-50-1	Acetate	ug/g	105	<6.04E-03	0.475	n/a	n/a	n/a	n/a	0.0731	n/a	J
S09V001340	W	12311-97-6	Formate	ug/g	103	<4.67E-03	0.374	n/a	n/a	n/a	n/a	0.0565	n/a	BJ

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT98
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001340		W	16887-00-6	Chloride	ug/g	98.4	0.0122	1.46	n/a	n/a	n/a	n/a	0.121	n/a	Bc
S09V001340		W	14797-65-0	Nitrite	ug/g	104	<0.0192	1.35	n/a	n/a	n/a	n/a	0.232	n/a	J
S09V001340		W	14808-79-8	Sulfate	ug/g	101	<0.0187	12.7	n/a	n/a	n/a	n/a	0.226	n/a	c
S09V001340		W	338-70-5	Oxalate	ug/g	101	<0.0231	0.761	n/a	n/a	n/a	n/a	0.279	n/a	J
S09V001340		W	14797-55-8	Nitrate	ug/g	99.3	<0.0208	10.4	n/a	n/a	n/a	n/a	0.252	n/a	c
S09V001340		W	14265-44-2	Phosphate	ug/g	99.8	<0.0167	3.36	n/a	n/a	n/a	n/a	0.202	n/a	
S09V001556		A	14133-76-7	Technetium-99	ug/g	102	2.25E-05	<1.18E-03	n/a	n/a	n/a	n/a	1.18E-03	n/a	U
S09V001556		A	SN-117	Tin-117	ug/g	111	<2.20E-04	<0.0432	n/a	n/a	n/a	n/a	0.0432	n/a	U
S09V001556		A	15832-50-5	Tin-126	ug/g	n/a	1.03E-05	<7.86E-04	n/a	n/a	n/a	n/a	7.86E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT99
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000395			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.182	n/a	n/a	n/a	n/a	0.182	n/a	U
S09V000395			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.345	n/a	n/a	n/a	n/a	0.345	n/a	U
S09V000395			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.455	n/a	n/a	n/a	n/a	0.455	n/a	U
S09V000395			75-35-4	1,1-Dichloroethene	ug/kg	104	<0.340	<0.309	n/a	n/a	n/a	n/a	0.309	n/a	U
S09V000395			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V000395			71-36-3	1-Butanol	ug/kg	121	<15.5	<14.1	n/a	n/a	n/a	n/a	14.1	n/a	U
S09V000395			108-10-1	Hexone	ug/kg	117	<1.76	<1.60	n/a	n/a	n/a	n/a	1.60	n/a	U
S09V000395			67-64-1	Acetone	ug/kg	122	<4.38	8.40	n/a	n/a	n/a	n/a	3.98	n/a	J
S09V000395			71-43-2	Benzene	ug/kg	96.8	<0.320	<0.291	n/a	n/a	n/a	n/a	0.291	n/a	U
S09V000395			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000395			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000395			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V000395			108-90-7	Chlorobenzene	ug/kg	95.6	<0.220	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000395			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.218	n/a	n/a	n/a	n/a	0.218	n/a	U
S09V000395			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.564	n/a	n/a	n/a	n/a	0.564	n/a	U
S09V000395			78-93-3	2-Butanone	ug/kg	118	<2.66	<2.42	n/a	n/a	n/a	n/a	2.42	n/a	U
S09V000395			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.309	n/a	n/a	n/a	n/a	0.309	n/a	U
S09V000395			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.364	n/a	n/a	n/a	n/a	0.364	n/a	U
S09V000395			108-88-3	Toluene	ug/kg	95.9	<0.240	<0.218	n/a	n/a	n/a	n/a	0.218	n/a	U
S09V000395			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.127	n/a	n/a	n/a	n/a	0.127	n/a	U
S09V000395			79-01-6	Trichloroethene	ug/kg	95.0	<0.300	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000395			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.582	n/a	n/a	n/a	n/a	0.582	n/a	U
S09V000395			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.236	n/a	n/a	n/a	n/a	0.236	n/a	U
S09V000395			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.327	n/a	n/a	n/a	n/a	0.327	n/a	U
S09V000395			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.455	n/a	n/a	n/a	n/a	0.455	n/a	U
S09V000395			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.43	n/a	n/a	n/a	n/a	1.43	n/a	U
S09V000395			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.884	n/a	n/a	n/a	n/a	0.884	n/a	U
S09V000395			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.805	n/a	n/a	n/a	n/a	0.805	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YT99
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000395			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.76	n/a	n/a	n/a	n/a	1.76	n/a	U
S09V000395			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.182	n/a	n/a	n/a	n/a	0.182	n/a	U
S09V000395			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.382	n/a	n/a	n/a	n/a	0.382	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB1
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000401			%WATERA	%WATER-APD	%	n/a	n/a	7.768	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000401			57-12-5	Cyanide	ug/g	97.3	<0.0370	<5.21	<5.07	n/a	n/a	98.8	5.21	n/a	U
S09V000401			7439-97-6	Mercury	ug/g	105	<1.00E-04	<9.98E-03	n/a	n/a	n/a	96.3	9.98E-03	n/a	U
S09V000401			PH	pH	unitless	n/a	n/a	9.81	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000401			18496-25-8	Sulfide	ug/g	98.6	<0.180	15.6	21.4	18.5	31.8	107	6.56	n/a	J
S09V000403			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.24E-05	n/a	n/a	n/a	n/a	6.53E-06	34.71	J
S09V000403			10198-40-0	Cobalt-60	uCi/g	100	<3.34E-07	<3.43E-07	n/a	n/a	n/a	n/a	3.43E-07	n/a	U
S09V000403			14234-35-6	Antimony-125	uCi/g	n/a	<9.75E-07	<8.29E-07	n/a	n/a	n/a	n/a	8.29E-07	n/a	U
S09V000403			10045-97-3	Cesium-137	uCi/g	106	<5.07E-07	<4.19E-07	n/a	n/a	n/a	n/a	4.19E-07	n/a	U
S09V000403			14683-23-9	Europium-152	uCi/g	n/a	<1.69E-06	<1.58E-06	n/a	n/a	n/a	n/a	1.58E-06	n/a	U
S09V000403			15585-10-1	Europium-154	uCi/g	n/a	<1.19E-06	<1.06E-06	n/a	n/a	n/a	n/a	1.06E-06	n/a	U
S09V000403			14391-16-3	Europium-155	uCi/g	n/a	<6.15E-07	<5.40E-07	n/a	n/a	n/a	n/a	5.40E-07	n/a	U
S09V000403			15092-94-1	Lead-212	uCi/g	n/a	n/a	6.38E-07	n/a	n/a	n/a	n/a	4.00E-07	32.55	J
S09V000403			15046-84-1	Iodine-129	uCi/g	100	<1.43E-07	<1.84E-07	n/a	n/a	n/a	n/a	1.84E-07	n/a	U
S09V000404		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	62.9	<77.4	<77.9	n/a	n/a	n/a	70.7	77.9	n/a	U
S09V000404		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
S09V000404		O	106-46-7	1,4-Dichlorobenzene	ug/kg	61.5	<113	<114	n/a	n/a	n/a	68.3	114	n/a	U
S09V000404		O	121-14-2	2,4-Dinitrotoluene	ug/kg	73.7	<38.1	<38.3	n/a	n/a	n/a	81.9	38.3	n/a	U
S09V000404		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<44.3	n/a	n/a	n/a	n/a	44.3	n/a	U
S09V000404		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.8	n/a	n/a	n/a	n/a	49.8	n/a	U
S09V000404		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.9	n/a	n/a	n/a	n/a	57.9	n/a	U
S09V000404		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<54.0	n/a	n/a	n/a	n/a	54.0	n/a	U
S09V000404		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<51.7	n/a	n/a	n/a	n/a	51.7	n/a	U
S09V000404		O	83-32-9	Acenaphthene	ug/kg	69.4	<17.6	<17.7	n/a	n/a	n/a	82.1	17.7	n/a	U
S09V000404		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<38.0	n/a	n/a	n/a	n/a	38.0	n/a	U
S09V000404		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S09V000404		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.5	n/a	n/a	n/a	n/a	41.5	n/a	U
S09V000404		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<594	n/a	n/a	n/a	n/a	594	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB1
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000404		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.4	n/a	n/a	n/a	n/a	39.4	n/a	U
S09V000404		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<50.3	n/a	n/a	n/a	n/a	50.3	n/a	U
S09V000404		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	68.2	<43.2	<43.5	n/a	n/a	n/a	78.6	43.5	n/a	U
S09V000404		O	95-57-8	2-Chlorophenol	ug/kg	61.1	<66.5	<66.9	n/a	n/a	n/a	70.1	66.9	n/a	U
S09V000404		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.9	n/a	n/a	n/a	n/a	81.9	n/a	U
S09V000404		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.4	n/a	n/a	n/a	n/a	51.4	n/a	U
S09V000404		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	769	n/a	n/a	n/a	n/a	566	n/a	J
S09V000404		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<48.0	n/a	n/a	n/a	n/a	48.0	n/a	U
S09V000404		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	57.6	<58.1	<58.5	n/a	n/a	n/a	66.8	58.5	n/a	U
S09V000404		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.6	n/a	n/a	n/a	n/a	35.6	n/a	U
S09V000404		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<70.1	n/a	n/a	n/a	n/a	70.1	n/a	U
S09V000404		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<113	n/a	n/a	n/a	n/a	113	n/a	U
S09V000404		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S09V000404		O	108-95-2	Phenol	ug/kg	62.8	<59.4	<59.8	n/a	n/a	n/a	73.0	59.8	n/a	U
S09V000404		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<63.0	n/a	n/a	n/a	n/a	63.0	n/a	U
S09V000404		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<65.0	n/a	n/a	n/a	n/a	65.0	n/a	U
S09V000404		O	100-02-7	4-Nitrophenol	ug/kg	75.6	<52.6	<52.9	n/a	n/a	n/a	90.2	52.9	n/a	U
S09V000404		O	87-86-5	Pentachlorophenol	ug/kg	78.1	<37.5	<37.7	n/a	n/a	n/a	93.0	37.7	n/a	U
S09V000404		O	129-00-0	Pyrene	ug/kg	79.2	<62.9	<63.3	n/a	n/a	n/a	86.9	63.3	n/a	U
S09V000404		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<65.4	n/a	n/a	n/a	n/a	65.4	n/a	U
S09V000404		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V000404		O	128-37-0	BHT	ug/kg	n/a	<236	<237	n/a	n/a	n/a	n/a	237	n/a	U
S09V000404		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<184	n/a	n/a	n/a	n/a	184	n/a	U
S09V000404		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000404		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<563	n/a	n/a	n/a	n/a	563	n/a	U
S09V000404		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<193	n/a	n/a	n/a	n/a	193	n/a	U
S09V000404		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<463	n/a	n/a	n/a	n/a	463	n/a	U
S09V000405		W	14762-75-5	Carbon-14	uCi/g	96.5	<6.77E-05	<7.03E-05	n/a	n/a	n/a	n/a	7.03E-05	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB1
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000405		W	10028-17-8	Tritium	uCi/g	90.5	<3.05E-04	<2.91E-04	n/a	n/a	n/a	n/a	2.91E-04	n/a	U
S09V000406		A	7429-90-5	Aluminum	ug/g	82.1	<0.0300	4.73E+03	n/a	n/a	n/a	n/a	5.90	n/a	
S09V000406		A	7440-39-3	Barium	ug/g	89.0	<3.00E-03	61.1	n/a	n/a	n/a	n/a	0.590	n/a	
S09V000406		A	7440-41-7	Beryllium	ug/g	92.2	<1.00E-03	<0.197	n/a	n/a	n/a	n/a	0.197	n/a	U
S09V000406		A	7440-70-2	Calcium	ug/g	80.8	0.0608	5.28E+03	n/a	n/a	n/a	n/a	9.84	n/a	
S09V000406		A	7440-45-1	Cerium	ug/g	96.1	<0.0300	22.8	n/a	n/a	n/a	n/a	5.90	n/a	J
S09V000406		A	7440-47-3	Chromium	ug/g	87.2	<5.00E-03	5.54	n/a	n/a	n/a	n/a	0.984	n/a	
S09V000406		A	7440-50-8	Copper	ug/g	88.5	<5.00E-03	10.5	n/a	n/a	n/a	n/a	0.984	n/a	
S09V000406		A	7440-53-1	Europium	ug/g	93.3	<5.00E-03	2.77	n/a	n/a	n/a	n/a	0.984	n/a	J
S09V000406		A	7439-89-6	Iron	ug/g	86.4	<5.00E-03	1.71E+04	n/a	n/a	n/a	n/a	0.984	n/a	
S09V000406		A	7440-09-7	Potassium	ug/g	81.8	<0.500	896	n/a	n/a	n/a	n/a	98.4	n/a	J
S09V000406		A	7439-91-0	Lanthanum	ug/g	89.3	<3.00E-03	9.56	n/a	n/a	n/a	n/a	0.590	n/a	
S09V000406		A	7439-93-2	Lithium	ug/g	90.3	<3.00E-03	5.02	n/a	n/a	n/a	n/a	0.590	n/a	J
S09V000406		A	7439-95-4	Magnesium	ug/g	82.7	<0.0500	2.94E+03	n/a	n/a	n/a	n/a	9.84	n/a	
S09V000406		A	7439-96-5	Manganese	ug/g	85.8	<3.00E-03	246	n/a	n/a	n/a	n/a	0.590	n/a	
S09V000406		A	7439-98-7	Molybdenum	ug/g	88.9	<0.0200	<3.94	n/a	n/a	n/a	n/a	3.94	n/a	U
S09V000406		A	7440-23-5	Sodium	ug/g	89.6	<0.100	734	n/a	n/a	n/a	n/a	19.7	n/a	
S09V000406		A	7440-00-8	Neodymium	ug/g	94.0	<0.0100	11.6	n/a	n/a	n/a	n/a	1.97	n/a	J
S09V000406		A	7723-14-0	Phosphorus	ug/g	89.7	<0.0500	640	n/a	n/a	n/a	n/a	9.84	n/a	
S09V000406		A	7440-10-0	Praseodymium	ug/g	94.0	<0.0100	2.10	n/a	n/a	n/a	n/a	1.97	n/a	J
S09V000406		A	7704-34-9	Sulfur	ug/g	86.4	<0.100	45.9	n/a	n/a	n/a	n/a	19.7	n/a	J
S09V000406		A	7440-21-3	Silicon	ug/g	80.8	<0.0300	1.17E+03	n/a	n/a	n/a	n/a	5.90	n/a	b
S09V000406		A	7440-31-5	Tin	ug/g	88.3	<0.0300	7.09	n/a	n/a	n/a	n/a	5.90	n/a	J
S09V000406		A	7440-24-6	Strontium	ug/g	88.5	<3.00E-03	20.8	n/a	n/a	n/a	n/a	0.590	n/a	
S09V000406		A	7440-32-6	Titanium	ug/g	88.9	<5.00E-03	1.74E+03	n/a	n/a	n/a	n/a	0.984	n/a	b
S09V000406		A	7440-61-1	Uranium	ug/g	97.7	<0.100	<19.7	n/a	n/a	n/a	n/a	19.7	n/a	U
S09V000406		A	7440-65-5	Yttrium	ug/g	92.0	<2.00E-03	8.27	n/a	n/a	n/a	n/a	0.394	n/a	
S09V000406		A	7440-66-6	Zinc	ug/g	84.8	<5.00E-03	34.2	n/a	n/a	n/a	n/a	0.984	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB1
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000406		A	7440-67-7	Zirconium	ug/g	81.2	<5.00E-03	14.3	n/a	n/a	n/a	n/a	0.984	n/a	
S09V000406		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	5.71E-05	n/a	n/a	n/a	n/a	2.75E-05	n/a	J
S09V000406		A	TH-232	Thorium-232	ug/g	102	1.29E-04	2.61	n/a	n/a	n/a	n/a	6.69E-04	n/a	
S09V000406		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.12E-04	n/a	n/a	n/a	n/a	3.94E-05	n/a	J
S09V000406		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	3.09E-05	n/a	n/a	n/a	n/a	1.97E-05	n/a	J
S09V000406		A	15117-96-1	Uranium-235	ug/g	96.5	5.35E-07	3.76E-03	n/a	n/a	n/a	n/a	4.33E-05	n/a	
S09V000406		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.57E-05	n/a	n/a	n/a	n/a	1.57E-05	n/a	U
S09V000406		A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	<2.09E-04	n/a	n/a	n/a	n/a	2.09E-04	n/a	U
S09V000406		A	U-238	Uranium-238	ug/g	102	1.34E-04	0.511	n/a	n/a	n/a	n/a	2.16E-03	n/a	B
S09V000406		A	7440-22-4	Silver	ug/g	99.6	<8.00E-04	<0.157	n/a	n/a	n/a	n/a	0.157	n/a	U
S09V000406		A	7440-38-2	Arsenic	ug/g	103	<8.40E-04	3.38	n/a	n/a	n/a	n/a	0.165	n/a	
S09V000406		A	7440-48-4	Cobalt	ug/g	104	<4.00E-04	5.10	n/a	n/a	n/a	n/a	0.0787	n/a	
S09V000406		A	7440-43-9	Cadmium	ug/g	103	<6.00E-05	0.104	n/a	n/a	n/a	n/a	0.0118	n/a	J
S09V000406		A	7439-92-1	Lead	ug/g	102	<6.20E-04	4.38	n/a	n/a	n/a	n/a	0.122	n/a	
S09V000406		A	7440-36-0	Antimony	ug/g	109	<8.80E-04	<0.173	n/a	n/a	n/a	n/a	0.173	n/a	U
S09V000406		A	7782-49-2	Selenium	ug/g	107	2.00E-03	<0.240	n/a	n/a	n/a	n/a	0.240	n/a	U
S09V000406		A	7440-28-0	Thallium	ug/g	118	5.12E-04	0.0745	n/a	n/a	n/a	n/a	0.0118	n/a	BJ
S09V000406		A	7440-62-2	Vanadium	ug/g	95.2	<4.80E-04	50.9	n/a	n/a	n/a	n/a	0.945	n/a	
S09V000406		A	7440-02-0	Nickel	ug/g	98.2	<1.20E-03	6.95	n/a	n/a	n/a	n/a	0.236	n/a	
S09V000407		S	14798-03-9	Ammonium	ug/g	99.4	0.0269	2.82	3.23	3.025	13.5	99.3	0.478	n/a	BJ
S09V000409		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.96E-07	<4.45E-07	n/a	n/a	n/a	n/a	4.45E-07	n/a	U
S09V000409		E	14596-10-2	Americium-241	uCi/g	101	<1.24E-06	<1.11E-06	n/a	n/a	n/a	n/a	1.11E-06	n/a	U
S09V000409		E	15510-73-3	Curium-242	uCi/g	n/a	<4.96E-07	<4.45E-07	n/a	n/a	n/a	n/a	4.45E-07	n/a	U
S09V000409		E	13981-37-8	Nickel-63	uCi/g	83.8	<4.99E-05	<6.70E-05	n/a	n/a	n/a	n/a	6.70E-05	n/a	U
S09V000409		E	PU-239/240	Plutonium-239/240	uCi/g	100	<8.52E-07	<6.63E-07	n/a	n/a	n/a	n/a	6.63E-07	n/a	U
S09V000409		E	13981-16-3	Plutonium-238	uCi/g	n/a	<8.52E-07	<6.63E-07	n/a	n/a	n/a	n/a	6.63E-07	n/a	U
S09V000409		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.72E-06	<1.27E-06	n/a	n/a	n/a	n/a	1.27E-06	n/a	U
S09V000409		E	SR-89/90	Strontium-89/90	uCi/g	89.8	<1.68E-06	<1.44E-06	n/a	n/a	n/a	n/a	1.44E-06	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB1
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001335		W	16984-48-8	Fluoride	ug/g	98.7	<1.61E-03	1.84	2.42	2.13	27.3	102	0.0200	n/a	
S09V001335		W	666-14-8	Glycolate	ug/g	102	<9.37E-03	<0.116	<0.116	n/a	n/a	104	0.116	n/a	U
S09V001335		W	71-50-1	Acetate	ug/g	105	<6.04E-03	1.36	1.19	1.275	13.3	107	0.0750	n/a	J
S09V001335		W	12311-97-6	Formate	ug/g	103	<4.67E-03	0.568	0.693	.6305	19.8	104	0.0580	n/a	BJ
S09V001335		W	16887-00-6	Chloride	ug/g	98.4	0.0122	2.35	5.15	3.75	74.7	101	0.124	n/a	Bc
S09V001335		W	14797-65-0	Nitrite	ug/g	104	<0.0192	1.70	1.20	1.45	34.2	108	0.239	n/a	J
S09V001335		W	14808-79-8	Sulfate	ug/g	101	<0.0187	13.8	29.1	21.45	71.4	103	0.232	n/a	c
S09V001335		W	338-70-5	Oxalate	ug/g	101	<0.0231	1.25	3.65	2.45	98.2	102	0.287	n/a	J
S09V001335		W	14797-55-8	Nitrate	ug/g	99.3	<0.0208	14.9	77.0	45.95	135	103	0.258	n/a	c
S09V001335		W	14265-44-2	Phosphate	ug/g	99.8	<0.0167	8.89	9.42	9.155	5.86	102	0.207	n/a	
S09V001557		A	14133-76-7	Technetium-99	ug/g	102	2.25E-05	<1.17E-03	n/a	n/a	n/a	n/a	1.17E-03	n/a	U
S09V001557		A	SN-117	Tin-117	ug/g	111	<2.20E-04	<0.0428	n/a	n/a	n/a	n/a	0.0428	n/a	U
S09V001557		A	15832-50-5	Tin-126	ug/g	n/a	1.03E-05	<7.78E-04	n/a	n/a	n/a	n/a	7.78E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB2
Sample Depth: 31.5-33.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000410			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V000410			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.339	n/a	n/a	n/a	n/a	0.339	n/a	U
S09V000410			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.446	n/a	n/a	n/a	n/a	0.446	n/a	U
S09V000410			75-35-4	1,1-Dichloroethene	ug/kg	100	<0.340	<0.304	n/a	n/a	n/a	114	0.304	n/a	U
S09V000410			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V000410			71-36-3	1-Butanol	ug/kg	119	<15.5	<13.9	n/a	n/a	n/a	132	13.9	n/a	Ub
S09V000410			108-10-1	Hexone	ug/kg	123	<1.76	<1.57	n/a	n/a	n/a	129	1.57	n/a	U
S09V000410			67-64-1	Acetone	ug/kg	126	6.83	6.14	n/a	n/a	n/a	130	3.91	n/a	BJ
S09V000410			71-43-2	Benzene	ug/kg	96.4	<0.320	<0.286	n/a	n/a	n/a	110	0.286	n/a	U
S09V000410			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.268	n/a	n/a	n/a	n/a	0.268	n/a	U
S09V000410			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.268	n/a	n/a	n/a	n/a	0.268	n/a	U
S09V000410			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V000410			108-90-7	Chlorobenzene	ug/kg	98.2	<0.220	<0.196	n/a	n/a	n/a	108	0.196	n/a	U
S09V000410			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.214	n/a	n/a	n/a	n/a	0.214	n/a	U
S09V000410			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.554	n/a	n/a	n/a	n/a	0.554	n/a	U
S09V000410			78-93-3	2-Butanone	ug/kg	119	<2.66	<2.38	n/a	n/a	n/a	130	2.38	n/a	U
S09V000410			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.304	n/a	n/a	n/a	n/a	0.304	n/a	U
S09V000410			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.357	n/a	n/a	n/a	n/a	0.357	n/a	U
S09V000410			108-88-3	Toluene	ug/kg	103	0.386	<0.214	n/a	n/a	n/a	111	0.214	n/a	U
S09V000410			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.125	n/a	n/a	n/a	n/a	0.125	n/a	U
S09V000410			79-01-6	Trichloroethene	ug/kg	92.9	<0.300	<0.268	n/a	n/a	n/a	108	0.268	n/a	U
S09V000410			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.571	n/a	n/a	n/a	n/a	0.571	n/a	U
S09V000410			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.232	n/a	n/a	n/a	n/a	0.232	n/a	U
S09V000410			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.321	n/a	n/a	n/a	n/a	0.321	n/a	U
S09V000410			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.446	n/a	n/a	n/a	n/a	0.446	n/a	U
S09V000410			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.41	n/a	n/a	n/a	n/a	1.41	n/a	U
S09V000410			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.868	n/a	n/a	n/a	n/a	0.868	n/a	U
S09V000410			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.790	n/a	n/a	n/a	n/a	0.790	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB2
Sample Depth: 31.5-33.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000410			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.73	n/a	n/a	n/a	n/a	1.73	n/a	U
S09V000410			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V000410			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.375	n/a	n/a	n/a	n/a	0.375	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB4
Sample Depth: 31.5-33.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000416			%WATERA	%WATER-APD	%	n/a	n/a	5.479	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000416			57-12-5	Cyanide	ug/g	97.3	<0.0370	<4.27	n/a	n/a	n/a	n/a	4.27	n/a	U
S09V000416			7439-97-6	Mercury	ug/g	105	<1.00E-04	<0.0102	n/a	n/a	n/a	n/a	0.0102	n/a	U
S09V000416			PH	pH	unitless	n/a	n/a	9.84	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000416			18496-25-8	Sulfide	ug/g	93.7	<0.180	17.2	18.6	17.9	7.57	86.0	6.02	n/a	J
S09V000418			13966-00-2	Potassium-40	uCi/g	n/a	n/a	7.90E-06	1.22E-05	.00001005	43.1	n/a	6.07E-06	49.17	J
S09V000418			10198-40-0	Cobalt-60	uCi/g	100	<3.34E-07	<3.64E-07	<3.66E-07	n/a	n/a	n/a	3.64E-07	n/a	U
S09V000418			14234-35-6	Antimony-125	uCi/g	n/a	<9.75E-07	<7.79E-07	<8.32E-07	n/a	n/a	n/a	7.79E-07	n/a	U
S09V000418			10045-97-3	Cesium-137	uCi/g	106	<5.07E-07	<4.17E-07	<3.99E-07	n/a	n/a	n/a	4.17E-07	n/a	U
S09V000418			14683-23-9	Europium-152	uCi/g	n/a	<1.69E-06	<1.58E-06	<1.59E-06	n/a	n/a	n/a	1.58E-06	n/a	U
S09V000418			15585-10-1	Europium-154	uCi/g	n/a	<1.19E-06	<9.06E-07	<9.59E-07	n/a	n/a	n/a	9.06E-07	n/a	U
S09V000418			14391-16-3	Europium-155	uCi/g	n/a	<6.15E-07	<5.03E-07	<5.04E-07	n/a	n/a	n/a	5.03E-07	n/a	U
S09V000418			15067-28-4	Lead-214	uCi/g	n/a	n/a	9.99E-07	7.82E-07	000008905	24.3	n/a	7.15E-07	24.79	
S09V000418			15046-84-1	Iodine-129	uCi/g	100	<1.43E-07	<1.72E-07	<1.82E-07	n/a	n/a	n/a	1.72E-07	n/a	U
S09V000419		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	62.9	<77.4	<75.8	n/a	n/a	n/a	n/a	75.8	n/a	U
S09V000419		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<98.6	n/a	n/a	n/a	n/a	98.6	n/a	U
S09V000419		O	106-46-7	1,4-Dichlorobenzene	ug/kg	61.5	<113	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V000419		O	121-14-2	2,4-Dinitrotoluene	ug/kg	73.7	<38.1	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S09V000419		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.1	n/a	n/a	n/a	n/a	43.1	n/a	U
S09V000419		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<48.5	n/a	n/a	n/a	n/a	48.5	n/a	U
S09V000419		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.3	n/a	n/a	n/a	n/a	56.3	n/a	U
S09V000419		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<52.6	n/a	n/a	n/a	n/a	52.6	n/a	U
S09V000419		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<50.3	n/a	n/a	n/a	n/a	50.3	n/a	U
S09V000419		O	83-32-9	Acenaphthene	ug/kg	69.4	<17.6	<17.2	n/a	n/a	n/a	n/a	17.2	n/a	U
S09V000419		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.0	n/a	n/a	n/a	n/a	37.0	n/a	U
S09V000419		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S09V000419		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.4	n/a	n/a	n/a	n/a	40.4	n/a	U
S09V000419		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	2.29E+03	n/a	n/a	n/a	n/a	578	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB4
Sample Depth: 31.5-33.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000419		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.3	n/a	n/a	n/a	n/a	38.3	n/a	U
S09V000419		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S09V000419		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	68.2	<43.2	<42.3	n/a	n/a	n/a	n/a	42.3	n/a	U
S09V000419		O	95-57-8	2-Chlorophenol	ug/kg	61.1	<66.5	<65.1	n/a	n/a	n/a	n/a	65.1	n/a	U
S09V000419		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<79.7	n/a	n/a	n/a	n/a	79.7	n/a	U
S09V000419		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S09V000419		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	770	n/a	n/a	n/a	n/a	551	n/a	J
S09V000419		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.7	n/a	n/a	n/a	n/a	46.7	n/a	U
S09V000419		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	57.6	<58.1	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S09V000419		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.7	n/a	n/a	n/a	n/a	34.7	n/a	U
S09V000419		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.3	n/a	n/a	n/a	n/a	68.3	n/a	U
S09V000419		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V000419		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S09V000419		O	108-95-2	Phenol	ug/kg	62.8	<59.4	<58.2	n/a	n/a	n/a	n/a	58.2	n/a	U
S09V000419		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.3	n/a	n/a	n/a	n/a	61.3	n/a	U
S09V000419		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.3	n/a	n/a	n/a	n/a	63.3	n/a	U
S09V000419		O	100-02-7	4-Nitrophenol	ug/kg	75.6	<52.6	<51.5	n/a	n/a	n/a	n/a	51.5	n/a	U
S09V000419		O	87-86-5	Pentachlorophenol	ug/kg	78.1	<37.5	<36.7	n/a	n/a	n/a	n/a	36.7	n/a	U
S09V000419		O	129-00-0	Pyrene	ug/kg	79.2	<62.9	<61.6	n/a	n/a	n/a	n/a	61.6	n/a	U
S09V000419		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<63.7	n/a	n/a	n/a	n/a	63.7	n/a	U
S09V000419		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V000419		O	128-37-0	BHT	ug/kg	n/a	<236	<231	n/a	n/a	n/a	n/a	231	n/a	U
S09V000419		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<179	n/a	n/a	n/a	n/a	179	n/a	U
S09V000419		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V000419		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<548	n/a	n/a	n/a	n/a	548	n/a	U
S09V000419		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<187	n/a	n/a	n/a	n/a	187	n/a	U
S09V000419		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<451	n/a	n/a	n/a	n/a	451	n/a	U
S09V000420		W	14762-75-5	Carbon-14	uCi/g	96.5	<6.77E-05	<4.87E-05	n/a	n/a	n/a	n/a	4.87E-05	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB4
Sample Depth: 31.5-33.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000420		W	10028-17-8	Tritium	uCi/g	90.5	<3.05E-04	<2.97E-04	n/a	n/a	n/a	n/a	2.97E-04	n/a	U
S09V000421		A	7429-90-5	Aluminum	ug/g	82.1	<0.0300	5.56E+03	n/a	n/a	n/a	n/a	5.68	n/a	
S09V000421		A	7440-39-3	Barium	ug/g	89.0	<3.00E-03	65.3	n/a	n/a	n/a	n/a	0.568	n/a	
S09V000421		A	7440-41-7	Beryllium	ug/g	92.2	<1.00E-03	<0.189	n/a	n/a	n/a	n/a	0.189	n/a	U
S09V000421		A	7440-70-2	Calcium	ug/g	80.8	0.0608	8.24E+03	n/a	n/a	n/a	n/a	9.46	n/a	
S09V000421		A	7440-45-1	Cerium	ug/g	96.1	<0.0300	23.7	n/a	n/a	n/a	n/a	5.68	n/a	J
S09V000421		A	7440-47-3	Chromium	ug/g	87.2	<5.00E-03	10.2	n/a	n/a	n/a	n/a	0.946	n/a	
S09V000421		A	7440-50-8	Copper	ug/g	88.5	<5.00E-03	12.2	n/a	n/a	n/a	n/a	0.946	n/a	
S09V000421		A	7440-53-1	Europium	ug/g	93.3	<5.00E-03	3.81	n/a	n/a	n/a	n/a	0.946	n/a	J
S09V000421		A	7439-89-6	Iron	ug/g	86.4	<5.00E-03	1.96E+04	n/a	n/a	n/a	n/a	0.946	n/a	
S09V000421		A	7440-09-7	Potassium	ug/g	81.8	<0.500	1.02E+03	n/a	n/a	n/a	n/a	94.6	n/a	
S09V000421		A	7439-91-0	Lanthanum	ug/g	89.3	<3.00E-03	9.01	n/a	n/a	n/a	n/a	0.568	n/a	
S09V000421		A	7439-93-2	Lithium	ug/g	90.3	<3.00E-03	6.70	n/a	n/a	n/a	n/a	0.568	n/a	
S09V000421		A	7439-95-4	Magnesium	ug/g	82.7	<0.0500	3.78E+03	n/a	n/a	n/a	n/a	9.46	n/a	
S09V000421		A	7439-96-5	Manganese	ug/g	85.8	<3.00E-03	303	n/a	n/a	n/a	n/a	0.568	n/a	
S09V000421		A	7439-98-7	Molybdenum	ug/g	88.9	<0.0200	<3.78	n/a	n/a	n/a	n/a	3.78	n/a	U
S09V000421		A	7440-23-5	Sodium	ug/g	89.6	<0.100	732	n/a	n/a	n/a	n/a	18.9	n/a	
S09V000421		A	7440-00-8	Neodymium	ug/g	94.0	<0.0100	11.6	n/a	n/a	n/a	n/a	1.89	n/a	J
S09V000421		A	7723-14-0	Phosphorus	ug/g	89.7	<0.0500	735	n/a	n/a	n/a	n/a	9.46	n/a	
S09V000421		A	7704-34-9	Sulfur	ug/g	86.4	<0.100	70.8	n/a	n/a	n/a	n/a	18.9	n/a	J
S09V000421		A	7440-21-3	Silicon	ug/g	80.8	<0.0300	1.88E+03	n/a	n/a	n/a	n/a	5.68	n/a	b
S09V000421		A	7440-24-6	Strontium	ug/g	88.5	<3.00E-03	24.3	n/a	n/a	n/a	n/a	0.568	n/a	
S09V000421		A	7440-32-6	Titanium	ug/g	88.9	<5.00E-03	1.69E+03	n/a	n/a	n/a	n/a	0.946	n/a	b
S09V000421		A	7440-61-1	Uranium	ug/g	97.7	<0.100	<18.9	n/a	n/a	n/a	n/a	18.9	n/a	U
S09V000421		A	7440-65-5	Yttrium	ug/g	92.0	<2.00E-03	8.08	n/a	n/a	n/a	n/a	0.378	n/a	
S09V000421		A	7440-66-6	Zinc	ug/g	84.8	<5.00E-03	36.2	n/a	n/a	n/a	n/a	0.946	n/a	
S09V000421		A	7440-67-7	Zirconium	ug/g	81.2	<5.00E-03	14.0	n/a	n/a	n/a	n/a	0.946	n/a	
S09V000421		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.65E-05	n/a	n/a	n/a	n/a	2.65E-05	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB4
Sample Depth: 31.5-33.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000421		A	TH-232	Thorium-232	ug/g	102	1.29E-04	2.75	n/a	n/a	n/a	n/a	6.43E-04	n/a	
S09V000421		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.28E-04	n/a	n/a	n/a	n/a	3.78E-05	n/a	J
S09V000421		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	4.67E-05	n/a	n/a	n/a	n/a	1.89E-05	n/a	J
S09V000421		A	15117-96-1	Uranium-235	ug/g	96.5	5.35E-07	0.0104	n/a	n/a	n/a	n/a	4.16E-05	n/a	
S09V000421		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	4.92E-04	n/a	n/a	n/a	n/a	1.51E-05	n/a	
S09V000421		A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	<2.01E-04	n/a	n/a	n/a	n/a	2.01E-04	n/a	U
S09V000421		A	U-238	Uranium-238	ug/g	102	1.34E-04	1.28	n/a	n/a	n/a	n/a	2.08E-03	n/a	
S09V000421		A	7440-22-4	Silver	ug/g	99.6	<8.00E-04	0.165	n/a	n/a	n/a	n/a	0.151	n/a	J
S09V000421		A	7440-38-2	Arsenic	ug/g	103	<8.40E-04	2.78	n/a	n/a	n/a	n/a	0.159	n/a	
S09V000421		A	7440-48-4	Cobalt	ug/g	104	<4.00E-04	7.00	n/a	n/a	n/a	n/a	0.0757	n/a	
S09V000421		A	7440-43-9	Cadmium	ug/g	103	<6.00E-05	0.0694	n/a	n/a	n/a	n/a	0.0114	n/a	J
S09V000421		A	7439-92-1	Lead	ug/g	102	<6.20E-04	4.77	n/a	n/a	n/a	n/a	0.117	n/a	
S09V000421		A	7440-36-0	Antimony	ug/g	109	<8.80E-04	<0.166	n/a	n/a	n/a	n/a	0.166	n/a	U
S09V000421		A	7782-49-2	Selenium	ug/g	107	2.00E-03	<0.231	n/a	n/a	n/a	n/a	0.231	n/a	U
S09V000421		A	7440-28-0	Thallium	ug/g	118	5.12E-04	0.0943	n/a	n/a	n/a	n/a	0.0114	n/a	BJ
S09V000421		A	7440-62-2	Vanadium	ug/g	95.2	<4.80E-04	58.0	n/a	n/a	n/a	n/a	0.908	n/a	
S09V000421		A	7440-02-0	Nickel	ug/g	98.2	<1.20E-03	10.5	n/a	n/a	n/a	n/a	0.227	n/a	
S09V000422		S	14798-03-9	Ammonium	ug/g	98.4	0.0283	1.63	1.56	1.595	4.46	97.2	0.475	n/a	BJ
S09V000424		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.96E-07	<3.98E-07	<3.97E-07	n/a	n/a	n/a	3.98E-07	n/a	U
S09V000424		E	14596-10-2	Americium-241	uCi/g	101	<1.24E-06	<9.96E-07	<9.92E-07	n/a	n/a	n/a	9.96E-07	n/a	U
S09V000424		E	15510-73-3	Curium-242	uCi/g	n/a	<4.96E-07	<3.98E-07	<3.97E-07	n/a	n/a	n/a	3.98E-07	n/a	U
S09V000424		E	13981-37-8	Nickel-63	uCi/g	83.8	<4.99E-05	<4.69E-05	<5.00E-05	n/a	n/a	n/a	4.69E-05	n/a	U
S09V000424		E	PU-239/240	Plutonium-239/240	uCi/g	100	<8.52E-07	<6.64E-07	<7.94E-07	n/a	n/a	n/a	6.64E-07	n/a	U
S09V000424		E	13981-16-3	Plutonium-238	uCi/g	n/a	<8.52E-07	<6.64E-07	<7.94E-07	n/a	n/a	n/a	6.64E-07	n/a	U
S09V000424		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.72E-06	<1.30E-06	<1.30E-06	n/a	n/a	n/a	1.30E-06	n/a	U
S09V000424		E	SR-89/90	Strontium-89/90	uCi/g	89.8	<1.68E-06	1.89E-06	<1.86E-06	n/a	n/a	n/a	1.28E-06	108.23	J
S09V001336		W	16984-48-8	Fluoride	ug/g	98.7	<1.61E-03	1.94	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001336		W	666-14-8	Glycolate	ug/g	102	<9.37E-03	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB4
Sample Depth: 31.5-33.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001336		W	71-50-1	Acetate	ug/g	105	<6.04E-03	1.59	n/a	n/a	n/a	n/a	0.0755	n/a	J
S09V001336		W	12311-97-6	Formate	ug/g	103	<4.67E-03	0.655	n/a	n/a	n/a	n/a	0.0583	n/a	BJ
S09V001336		W	16887-00-6	Chloride	ug/g	98.4	0.0122	1.09	n/a	n/a	n/a	n/a	0.125	n/a	BJc
S09V001336		W	14797-65-0	Nitrite	ug/g	104	<0.0192	2.69	n/a	n/a	n/a	n/a	0.240	n/a	J
S09V001336		W	14808-79-8	Sulfate	ug/g	101	<0.0187	24.0	n/a	n/a	n/a	n/a	0.234	n/a	c
S09V001336		W	338-70-5	Oxalate	ug/g	101	<0.0231	1.57	n/a	n/a	n/a	n/a	0.289	n/a	J
S09V001336		W	14797-55-8	Nitrate	ug/g	99.3	<0.0208	18.0	n/a	n/a	n/a	n/a	0.260	n/a	c
S09V001336		W	14265-44-2	Phosphate	ug/g	99.8	<0.0167	2.45	n/a	n/a	n/a	n/a	0.209	n/a	J
S09V001558		A	14133-76-7	Technetium-99	ug/g	102	2.25E-05	<1.06E-03	n/a	n/a	n/a	n/a	1.06E-03	n/a	U
S09V001558		A	SN-117	Tin-117	ug/g	111	<2.20E-04	<0.0387	n/a	n/a	n/a	n/a	0.0387	n/a	U
S09V001558		A	15832-50-5	Tin-126	ug/g	n/a	1.03E-05	<7.03E-04	n/a	n/a	n/a	n/a	7.03E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB5
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000427			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.147	n/a	n/a	n/a	n/a	0.147	n/a	U
S09V000427			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.279	n/a	n/a	n/a	n/a	0.279	n/a	U
S09V000427			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.368	n/a	n/a	n/a	n/a	0.368	n/a	U
S09V000427			75-35-4	1,1-Dichloroethene	ug/kg	116	<0.340	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000427			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.132	n/a	n/a	n/a	n/a	0.132	n/a	U
S09V000427			71-36-3	1-Butanol	ug/kg	134	<15.5	<11.4	n/a	n/a	n/a	n/a	11.4	n/a	Ua
S09V000427			108-10-1	Hexone	ug/kg	137	<1.76	<1.29	n/a	n/a	n/a	n/a	1.29	n/a	Ua
S09V000427			67-64-1	Acetone	ug/kg	146	<4.38	<3.22	n/a	n/a	n/a	n/a	3.22	n/a	Ua
S09V000427			71-43-2	Benzene	ug/kg	105	<0.320	<0.235	n/a	n/a	n/a	n/a	0.235	n/a	U
S09V000427			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.221	n/a	n/a	n/a	n/a	0.221	n/a	U
S09V000427			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.221	n/a	n/a	n/a	n/a	0.221	n/a	U
S09V000427			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.132	n/a	n/a	n/a	n/a	0.132	n/a	U
S09V000427			108-90-7	Chlorobenzene	ug/kg	106	<0.220	<0.162	n/a	n/a	n/a	n/a	0.162	n/a	U
S09V000427			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.176	n/a	n/a	n/a	n/a	0.176	n/a	U
S09V000427			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.456	n/a	n/a	n/a	n/a	0.456	n/a	U
S09V000427			78-93-3	2-Butanone	ug/kg	135	<2.66	<1.96	n/a	n/a	n/a	n/a	1.96	n/a	Ua
S09V000427			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000427			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.294	n/a	n/a	n/a	n/a	0.294	n/a	U
S09V000427			108-88-3	Toluene	ug/kg	109	0.322	<0.176	n/a	n/a	n/a	n/a	0.176	n/a	U
S09V000427			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.103	n/a	n/a	n/a	n/a	0.103	n/a	U
S09V000427			79-01-6	Trichloroethene	ug/kg	104	<0.300	<0.221	n/a	n/a	n/a	n/a	0.221	n/a	U
S09V000427			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.471	n/a	n/a	n/a	n/a	0.471	n/a	U
S09V000427			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.191	n/a	n/a	n/a	n/a	0.191	n/a	U
S09V000427			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.265	n/a	n/a	n/a	n/a	0.265	n/a	U
S09V000427			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.368	n/a	n/a	n/a	n/a	0.368	n/a	U
S09V000427			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.16	n/a	n/a	n/a	n/a	1.16	n/a	U
S09V000427			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.715	n/a	n/a	n/a	n/a	0.715	n/a	U
S09V000427			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.651	n/a	n/a	n/a	n/a	0.651	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB5
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000427			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.43	n/a	n/a	n/a	n/a	1.43	n/a	U
S09V000427			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.147	n/a	n/a	n/a	n/a	0.147	n/a	U
S09V000427			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.309	n/a	n/a	n/a	n/a	0.309	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB7
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000433			%WATERA	%WATER-APD	%	n/a	n/a	8.759	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000433			57-12-5	Cyanide	ug/g	97.3	<0.0370	<5.25	n/a	n/a	n/a	n/a	5.25	n/a	U
S09V000433			7439-97-6	Mercury	ug/g	105	<1.00E-04	<0.0105	n/a	n/a	n/a	n/a	0.0105	n/a	U
S09V000433			PH	pH	unitless	n/a	n/a	9.69	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000433			18496-25-8	Sulfide	ug/g	93.7	<0.180	16.8	n/a	n/a	n/a	n/a	6.25	n/a	J
S09V000435			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.34E-05	n/a	n/a	n/a	n/a	7.46E-06	36.67	J
S09V000435			10198-40-0	Cobalt-60	uCi/g	100	<3.34E-07	<4.02E-07	n/a	n/a	n/a	n/a	4.02E-07	n/a	U
S09V000435			14234-35-6	Antimony-125	uCi/g	n/a	<9.75E-07	<9.88E-07	n/a	n/a	n/a	n/a	9.88E-07	n/a	U
S09V000435			10045-97-3	Cesium-137	uCi/g	106	<5.07E-07	<4.64E-07	n/a	n/a	n/a	n/a	4.64E-07	n/a	U
S09V000435			14683-23-9	Europium-152	uCi/g	n/a	<1.69E-06	<1.90E-06	n/a	n/a	n/a	n/a	1.90E-06	n/a	U
S09V000435			15585-10-1	Europium-154	uCi/g	n/a	<1.19E-06	<1.21E-06	n/a	n/a	n/a	n/a	1.21E-06	n/a	U
S09V000435			14391-16-3	Europium-155	uCi/g	n/a	<6.15E-07	<6.30E-07	n/a	n/a	n/a	n/a	6.30E-07	n/a	U
S09V000435			15092-94-1	Lead-212	uCi/g	n/a	n/a	7.78E-07	n/a	n/a	n/a	n/a	5.06E-07	26.27	
S09V000435			15046-84-1	Iodine-129	uCi/g	100	<1.43E-07	<1.74E-07	n/a	n/a	n/a	n/a	1.74E-07	n/a	U
S09V000436		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	62.9	<77.4	<77.6	n/a	n/a	n/a	n/a	77.6	n/a	U
S09V000436		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
S09V000436		O	106-46-7	1,4-Dichlorobenzene	ug/kg	61.5	<113	<114	n/a	n/a	n/a	n/a	114	n/a	U
S09V000436		O	121-14-2	2,4-Dinitrotoluene	ug/kg	73.7	<38.1	<38.2	n/a	n/a	n/a	n/a	38.2	n/a	U
S09V000436		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<44.1	n/a	n/a	n/a	n/a	44.1	n/a	U
S09V000436		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.6	n/a	n/a	n/a	n/a	49.6	n/a	U
S09V000436		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.6	n/a	n/a	n/a	n/a	57.6	n/a	U
S09V000436		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.8	n/a	n/a	n/a	n/a	53.8	n/a	U
S09V000436		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<51.5	n/a	n/a	n/a	n/a	51.5	n/a	U
S09V000436		O	83-32-9	Acenaphthene	ug/kg	69.4	<17.6	<17.6	n/a	n/a	n/a	n/a	17.6	n/a	U
S09V000436		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S09V000436		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S09V000436		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.3	n/a	n/a	n/a	n/a	41.3	n/a	U
S09V000436		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	1.12E+03	n/a	n/a	n/a	n/a	592	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB7
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000436		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.2	n/a	n/a	n/a	n/a	39.2	n/a	U
S09V000436		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<50.1	n/a	n/a	n/a	n/a	50.1	n/a	U
S09V000436		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	68.2	<43.2	<43.3	n/a	n/a	n/a	n/a	43.3	n/a	U
S09V000436		O	95-57-8	2-Chlorophenol	ug/kg	61.1	<66.5	<66.7	n/a	n/a	n/a	n/a	66.7	n/a	U
S09V000436		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.6	n/a	n/a	n/a	n/a	81.6	n/a	U
S09V000436		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S09V000436		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<564	n/a	n/a	n/a	n/a	564	n/a	U
S09V000436		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.8	n/a	n/a	n/a	n/a	47.8	n/a	U
S09V000436		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	57.6	<58.1	<58.2	n/a	n/a	n/a	n/a	58.2	n/a	U
S09V000436		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.5	n/a	n/a	n/a	n/a	35.5	n/a	U
S09V000436		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.9	n/a	n/a	n/a	n/a	69.9	n/a	U
S09V000436		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V000436		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S09V000436		O	108-95-2	Phenol	ug/kg	62.8	<59.4	<59.5	n/a	n/a	n/a	n/a	59.5	n/a	U
S09V000436		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S09V000436		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	U
S09V000436		O	100-02-7	4-Nitrophenol	ug/kg	75.6	<52.6	<52.7	n/a	n/a	n/a	n/a	52.7	n/a	U
S09V000436		O	87-86-5	Pentachlorophenol	ug/kg	78.1	<37.5	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S09V000436		O	129-00-0	Pyrene	ug/kg	79.2	<62.9	<63.1	n/a	n/a	n/a	n/a	63.1	n/a	U
S09V000436		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<65.2	n/a	n/a	n/a	n/a	65.2	n/a	U
S09V000436		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V000436		O	128-37-0	BHT	ug/kg	n/a	<236	<236	n/a	n/a	n/a	n/a	236	n/a	U
S09V000436		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<183	n/a	n/a	n/a	n/a	183	n/a	U
S09V000436		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000436		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<560	n/a	n/a	n/a	n/a	560	n/a	U
S09V000436		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<192	n/a	n/a	n/a	n/a	192	n/a	U
S09V000436		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<461	n/a	n/a	n/a	n/a	461	n/a	U
S09V000437		W	14762-75-5	Carbon-14	uCi/g	96.5	<6.77E-05	<8.92E-05	n/a	n/a	n/a	n/a	8.92E-05	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB7
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000437		W	10028-17-8	Tritium	uCi/g	90.5	<3.05E-04	<2.93E-04	n/a	n/a	n/a	n/a	2.93E-04	n/a	U
S09V000438		A	7429-90-5	Aluminum	ug/g	82.1	<0.0300	6.50E+03	n/a	n/a	n/a	n/a	5.78	n/a	
S09V000438		A	7440-39-3	Barium	ug/g	89.0	<3.00E-03	57.9	n/a	n/a	n/a	n/a	0.578	n/a	
S09V000438		A	7440-41-7	Beryllium	ug/g	92.2	<1.00E-03	<0.193	n/a	n/a	n/a	n/a	0.193	n/a	U
S09V000438		A	7440-70-2	Calcium	ug/g	80.8	0.0608	7.33E+03	n/a	n/a	n/a	n/a	9.63	n/a	
S09V000438		A	7440-45-1	Cerium	ug/g	96.1	<0.0300	30.3	n/a	n/a	n/a	n/a	5.78	n/a	J
S09V000438		A	7440-47-3	Chromium	ug/g	87.2	<5.00E-03	6.67	n/a	n/a	n/a	n/a	0.963	n/a	
S09V000438		A	7440-50-8	Copper	ug/g	88.5	<5.00E-03	10.5	n/a	n/a	n/a	n/a	0.963	n/a	
S09V000438		A	7440-53-1	Europium	ug/g	93.3	<5.00E-03	3.99	n/a	n/a	n/a	n/a	0.963	n/a	J
S09V000438		A	7439-89-6	Iron	ug/g	86.4	<5.00E-03	2.14E+04	n/a	n/a	n/a	n/a	0.963	n/a	
S09V000438		A	7440-09-7	Potassium	ug/g	81.8	<0.500	1.28E+03	n/a	n/a	n/a	n/a	96.3	n/a	
S09V000438		A	7439-91-0	Lanthanum	ug/g	89.3	<3.00E-03	13.3	n/a	n/a	n/a	n/a	0.578	n/a	
S09V000438		A	7439-93-2	Lithium	ug/g	90.3	<3.00E-03	5.85	n/a	n/a	n/a	n/a	0.578	n/a	
S09V000438		A	7439-95-4	Magnesium	ug/g	82.7	<0.0500	3.99E+03	n/a	n/a	n/a	n/a	9.63	n/a	
S09V000438		A	7439-96-5	Manganese	ug/g	85.8	<3.00E-03	243	n/a	n/a	n/a	n/a	0.578	n/a	
S09V000438		A	7439-98-7	Molybdenum	ug/g	88.9	<0.0200	<3.85	n/a	n/a	n/a	n/a	3.85	n/a	U
S09V000438		A	7440-23-5	Sodium	ug/g	89.6	<0.100	888	n/a	n/a	n/a	n/a	19.3	n/a	
S09V000438		A	7440-00-8	Neodymium	ug/g	94.0	<0.0100	16.9	n/a	n/a	n/a	n/a	1.93	n/a	J
S09V000438		A	7723-14-0	Phosphorus	ug/g	89.7	<0.0500	1.14E+03	n/a	n/a	n/a	n/a	9.63	n/a	
S09V000438		A	7440-10-0	Praseodymium	ug/g	94.0	<0.0100	2.95	n/a	n/a	n/a	n/a	1.93	n/a	J
S09V000438		A	7704-34-9	Sulfur	ug/g	86.4	<0.100	69.6	n/a	n/a	n/a	n/a	19.3	n/a	J
S09V000438		A	7440-21-3	Silicon	ug/g	80.8	<0.0300	1.07E+03	n/a	n/a	n/a	n/a	5.78	n/a	b
S09V000438		A	7440-31-5	Tin	ug/g	88.3	<0.0300	6.78	n/a	n/a	n/a	n/a	5.78	n/a	J
S09V000438		A	7440-24-6	Strontium	ug/g	88.5	<3.00E-03	25.8	n/a	n/a	n/a	n/a	0.578	n/a	
S09V000438		A	7440-32-6	Titanium	ug/g	88.9	<5.00E-03	1.48E+03	n/a	n/a	n/a	n/a	0.963	n/a	b
S09V000438		A	7440-61-1	Uranium	ug/g	97.7	<0.100	<19.3	n/a	n/a	n/a	n/a	19.3	n/a	U
S09V000438		A	7440-65-5	Yttrium	ug/g	92.0	<2.00E-03	12.1	n/a	n/a	n/a	n/a	0.385	n/a	
S09V000438		A	7440-66-6	Zinc	ug/g	84.8	<5.00E-03	40.3	n/a	n/a	n/a	n/a	0.963	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB7
Sample Depth: 42-44

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000438	A	7440-67-7	Zirconium	ug/g	81.2	<5.00E-03	17.8	n/a	n/a	n/a	n/a	0.963	n/a	
S09V000438	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.70E-05	n/a	n/a	n/a	n/a	2.70E-05	n/a	U
S09V000438	A	TH-232	Thorium-232	ug/g	102	1.29E-04	3.47	n/a	n/a	n/a	n/a	6.55E-04	n/a	
S09V000438	A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	3.05E-04	n/a	n/a	n/a	n/a	3.85E-05	n/a	J
S09V000438	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	4.43E-04	n/a	n/a	n/a	n/a	1.93E-05	n/a	
S09V000438	A	15117-96-1	Uranium-235	ug/g	96.5	5.35E-07	0.0507	n/a	n/a	n/a	n/a	4.24E-05	n/a	
S09V000438	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	2.34E-03	n/a	n/a	n/a	n/a	1.54E-05	n/a	
S09V000438	A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	<2.04E-04	n/a	n/a	n/a	n/a	2.04E-04	n/a	U
S09V000438	A	U-238	Uranium-238	ug/g	102	1.34E-04	6.39	n/a	n/a	n/a	n/a	2.12E-03	n/a	
S09V000438	A	7440-22-4	Silver	ug/g	99.6	<8.00E-04	0.180	n/a	n/a	n/a	n/a	0.154	n/a	J
S09V000438	A	7440-38-2	Arsenic	ug/g	103	<8.40E-04	3.94	n/a	n/a	n/a	n/a	0.162	n/a	
S09V000438	A	7440-48-4	Cobalt	ug/g	104	<4.00E-04	5.03	n/a	n/a	n/a	n/a	0.0770	n/a	
S09V000438	A	7440-43-9	Cadmium	ug/g	103	<6.00E-05	0.0915	n/a	n/a	n/a	n/a	0.0116	n/a	J
S09V000438	A	7439-92-1	Lead	ug/g	102	<6.20E-04	5.39	n/a	n/a	n/a	n/a	0.119	n/a	
S09V000438	A	7440-36-0	Antimony	ug/g	109	<8.80E-04	<0.169	n/a	n/a	n/a	n/a	0.169	n/a	U
S09V000438	A	7782-49-2	Selenium	ug/g	107	2.00E-03	<0.235	n/a	n/a	n/a	n/a	0.235	n/a	U
S09V000438	A	7440-28-0	Thallium	ug/g	118	5.12E-04	0.0852	n/a	n/a	n/a	n/a	0.0116	n/a	BJ
S09V000438	A	7440-62-2	Vanadium	ug/g	95.2	<4.80E-04	51.4	n/a	n/a	n/a	n/a	0.924	n/a	
S09V000438	A	7440-02-0	Nickel	ug/g	98.2	<1.20E-03	10.3	n/a	n/a	n/a	n/a	0.231	n/a	
S09V000439	S	14798-03-9	Ammonium	ug/g	98.4	0.0283	5.34	n/a	n/a	n/a	n/a	0.479	n/a	B
S09V000441	E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.96E-07	<3.83E-07	n/a	n/a	n/a	n/a	3.83E-07	n/a	U
S09V000441	E	14596-10-2	Americium-241	uCi/g	101	<1.24E-06	<9.58E-07	n/a	n/a	n/a	n/a	9.58E-07	n/a	U
S09V000441	E	15510-73-3	Curium-242	uCi/g	n/a	<4.96E-07	<3.83E-07	n/a	n/a	n/a	n/a	3.83E-07	n/a	U
S09V000441	E	13981-37-8	Nickel-63	uCi/g	83.8	<4.99E-05	<4.60E-05	n/a	n/a	n/a	n/a	4.60E-05	n/a	U
S09V000441	E	PU-239/240	Plutonium-239/240	uCi/g	100	<8.52E-07	<6.69E-07	n/a	n/a	n/a	n/a	6.69E-07	n/a	U
S09V000441	E	13981-16-3	Plutonium-238	uCi/g	n/a	<8.52E-07	<6.69E-07	n/a	n/a	n/a	n/a	6.69E-07	n/a	U
S09V000441	E	15758-45-9	Selenium-79	uCi/g	n/a	<1.72E-06	<1.04E-06	n/a	n/a	n/a	n/a	1.04E-06	n/a	U
S09V000441	E	SR-89/90	Strontium-89/90	uCi/g	89.8	<1.68E-06	<2.46E-06	n/a	n/a	n/a	n/a	2.46E-06	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB7
Sample Depth: 42-44

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001337		W	16984-48-8	Fluoride	ug/g	98.7	<1.61E-03	3.87	n/a	n/a	n/a	n/a	0.0197	n/a	
S09V001337		W	666-14-8	Glycolate	ug/g	102	<9.37E-03	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S09V001337		W	71-50-1	Acetate	ug/g	105	<6.04E-03	0.712	n/a	n/a	n/a	n/a	0.0738	n/a	J
S09V001337		W	12311-97-6	Formate	ug/g	103	<4.67E-03	0.886	n/a	n/a	n/a	n/a	0.0571	n/a	BJ
S09V001337		W	16887-00-6	Chloride	ug/g	98.4	0.0122	6.75	n/a	n/a	n/a	n/a	0.122	n/a	c
S09V001337		W	14797-65-0	Nitrite	ug/g	104	<0.0192	4.44	n/a	n/a	n/a	n/a	0.235	n/a	
S09V001337		W	14808-79-8	Sulfate	ug/g	101	<0.0187	54.7	n/a	n/a	n/a	n/a	0.229	n/a	c
S09V001337		W	338-70-5	Oxalate	ug/g	101	<0.0231	2.79	n/a	n/a	n/a	n/a	0.282	n/a	J
S09V001337		W	14797-55-8	Nitrate	ug/g	99.3	<0.0208	143	n/a	n/a	n/a	n/a	0.254	n/a	c
S09V001337		W	14265-44-2	Phosphate	ug/g	99.8	<0.0167	8.63	n/a	n/a	n/a	n/a	0.204	n/a	
S09V001559		A	14133-76-7	Technetium-99	ug/g	102	2.25E-05	<1.17E-03	n/a	n/a	n/a	n/a	1.17E-03	n/a	U
S09V001559		A	SN-117	Tin-117	ug/g	111	<2.20E-04	<0.0430	n/a	n/a	n/a	n/a	0.0430	n/a	U
S09V001559		A	15832-50-5	Tin-126	ug/g	n/a	1.03E-05	<7.82E-04	n/a	n/a	n/a	n/a	7.82E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB8
Sample Depth: 57-59

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000442			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000442			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.317	n/a	n/a	n/a	n/a	0.317	n/a	U
S09V000442			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.417	n/a	n/a	n/a	n/a	0.417	n/a	U
S09V000442			75-35-4	1,1-Dichloroethene	ug/kg	133	<0.340	0.323	n/a	n/a	n/a	n/a	0.283	n/a	Ja
S09V000442			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S09V000442			71-36-3	1-Butanol	ug/kg	129	<15.5	<13.0	n/a	n/a	n/a	n/a	13.0	n/a	Ub
S09V000442			108-10-1	Hexone	ug/kg	138	<1.76	<1.47	n/a	n/a	n/a	n/a	1.47	n/a	Ua
S09V000442			67-64-1	Acetone	ug/kg	141	<4.38	<3.65	n/a	n/a	n/a	n/a	3.65	n/a	Ua
S09V000442			71-43-2	Benzene	ug/kg	118	<0.320	<0.267	n/a	n/a	n/a	n/a	0.267	n/a	U
S09V000442			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000442			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000442			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S09V000442			108-90-7	Chlorobenzene	ug/kg	120	<0.220	<0.183	n/a	n/a	n/a	n/a	0.183	n/a	U
S09V000442			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000442			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.517	n/a	n/a	n/a	n/a	0.517	n/a	U
S09V000442			78-93-3	2-Butanone	ug/kg	135	<2.66	<2.22	n/a	n/a	n/a	n/a	2.22	n/a	Ua
S09V000442			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.283	n/a	n/a	n/a	n/a	0.283	n/a	U
S09V000442			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.333	n/a	n/a	n/a	n/a	0.333	n/a	U
S09V000442			108-88-3	Toluene	ug/kg	122	<0.240	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000442			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V000442			79-01-6	Trichloroethene	ug/kg	120	<0.300	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000442			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.533	n/a	n/a	n/a	n/a	0.533	n/a	U
S09V000442			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.217	n/a	n/a	n/a	n/a	0.217	n/a	U
S09V000442			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.300	n/a	n/a	n/a	n/a	0.300	n/a	U
S09V000442			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.417	n/a	n/a	n/a	n/a	0.417	n/a	U
S09V000442			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.31	n/a	n/a	n/a	n/a	1.31	n/a	U
S09V000442			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.810	n/a	n/a	n/a	n/a	0.810	n/a	U
S09V000442			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.738	n/a	n/a	n/a	n/a	0.738	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTB8
Sample Depth: 57-59

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000442			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.62	n/a	n/a	n/a	n/a	1.62	n/a	U
S09V000442			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000442			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.350	n/a	n/a	n/a	n/a	0.350	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTC0
Sample Depth: 57-59

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000448			%WATERA	%WATER-APD	%	n/a	n/a	2.194	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000448			57-12-5	Cyanide	ug/g	97.3	<0.0370	<4.58	n/a	n/a	n/a	n/a	4.58	n/a	U
S09V000448			7439-97-6	Mercury	ug/g	105	<1.00E-04	<0.0108	n/a	n/a	n/a	n/a	0.0108	n/a	U
S09V000448			PH	pH	unitless	n/a	n/a	9.38	9.39	9.385	0.107	n/a	0.0100	n/a	
S09V000448			18496-25-8	Sulfide	ug/g	93.7	<0.180	<6.25	n/a	n/a	n/a	n/a	6.25	n/a	U
S09V000450			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.28E-05	n/a	n/a	n/a	n/a	6.63E-06	34.34	J
S09V000450			10198-40-0	Cobalt-60	uCi/g	100	<3.34E-07	<3.88E-07	n/a	n/a	n/a	n/a	3.88E-07	n/a	U
S09V000450			14234-35-6	Antimony-125	uCi/g	n/a	<9.75E-07	<8.46E-07	n/a	n/a	n/a	n/a	8.46E-07	n/a	U
S09V000450			10045-97-3	Cesium-137	uCi/g	106	<5.07E-07	<4.26E-07	n/a	n/a	n/a	n/a	4.26E-07	n/a	U
S09V000450			14683-23-9	Europium-152	uCi/g	n/a	<1.69E-06	<1.74E-06	n/a	n/a	n/a	n/a	1.74E-06	n/a	U
S09V000450			15585-10-1	Europium-154	uCi/g	n/a	<1.19E-06	<1.10E-06	n/a	n/a	n/a	n/a	1.10E-06	n/a	U
S09V000450			14391-16-3	Europium-155	uCi/g	n/a	<6.15E-07	<5.43E-07	n/a	n/a	n/a	n/a	5.43E-07	n/a	U
S09V000450			15046-84-1	Iodine-129	uCi/g	100	<1.43E-07	<1.34E-07	n/a	n/a	n/a	n/a	1.34E-07	n/a	U
S09V000451		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	62.9	<77.4	<68.9	n/a	n/a	n/a	n/a	68.9	n/a	U
S09V000451		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<89.7	n/a	n/a	n/a	n/a	89.7	n/a	U
S09V000451		O	106-46-7	1,4-Dichlorobenzene	ug/kg	61.5	<113	<101	n/a	n/a	n/a	n/a	101	n/a	U
S09V000451		O	121-14-2	2,4-Dinitrotoluene	ug/kg	73.7	<38.1	<33.9	n/a	n/a	n/a	n/a	33.9	n/a	U
S09V000451		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<39.2	n/a	n/a	n/a	n/a	39.2	n/a	U
S09V000451		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<44.1	n/a	n/a	n/a	n/a	44.1	n/a	U
S09V000451		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S09V000451		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<47.8	n/a	n/a	n/a	n/a	47.8	n/a	U
S09V000451		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<45.8	n/a	n/a	n/a	n/a	45.8	n/a	U
S09V000451		O	83-32-9	Acenaphthene	ug/kg	69.4	<17.6	<15.7	n/a	n/a	n/a	n/a	15.7	n/a	U
S09V000451		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<33.7	n/a	n/a	n/a	n/a	33.7	n/a	U
S09V000451		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<43.5	n/a	n/a	n/a	n/a	43.5	n/a	U
S09V000451		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<36.7	n/a	n/a	n/a	n/a	36.7	n/a	U
S09V000451		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	2.94E+03	n/a	n/a	n/a	n/a	525	n/a	J
S09V000451		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<34.8	n/a	n/a	n/a	n/a	34.8	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTC0
Sample Depth: 57-59

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000451		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<44.5	n/a	n/a	n/a	n/a	44.5	n/a	U
S09V000451		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	68.2	<43.2	<38.5	n/a	n/a	n/a	n/a	38.5	n/a	U
S09V000451		O	95-57-8	2-Chlorophenol	ug/kg	61.1	<66.5	<59.2	n/a	n/a	n/a	n/a	59.2	n/a	U
S09V000451		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<72.5	n/a	n/a	n/a	n/a	72.5	n/a	U
S09V000451		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<45.5	n/a	n/a	n/a	n/a	45.5	n/a	U
S09V000451		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<501	n/a	n/a	n/a	n/a	501	n/a	U
S09V000451		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<42.5	n/a	n/a	n/a	n/a	42.5	n/a	U
S09V000451		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	57.6	<58.1	<51.7	n/a	n/a	n/a	n/a	51.7	n/a	U
S09V000451		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<31.5	n/a	n/a	n/a	n/a	31.5	n/a	U
S09V000451		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<62.1	n/a	n/a	n/a	n/a	62.1	n/a	U
S09V000451		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<99.5	n/a	n/a	n/a	n/a	99.5	n/a	U
S09V000451		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<45.4	n/a	n/a	n/a	n/a	45.4	n/a	U
S09V000451		O	108-95-2	Phenol	ug/kg	62.8	<59.4	<52.9	n/a	n/a	n/a	n/a	52.9	n/a	U
S09V000451		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<55.7	n/a	n/a	n/a	n/a	55.7	n/a	U
S09V000451		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<57.5	n/a	n/a	n/a	n/a	57.5	n/a	U
S09V000451		O	100-02-7	4-Nitrophenol	ug/kg	75.6	<52.6	<46.8	n/a	n/a	n/a	n/a	46.8	n/a	U
S09V000451		O	87-86-5	Pentachlorophenol	ug/kg	78.1	<37.5	<33.4	n/a	n/a	n/a	n/a	33.4	n/a	U
S09V000451		O	129-00-0	Pyrene	ug/kg	79.2	<62.9	<56.0	n/a	n/a	n/a	n/a	56.0	n/a	U
S09V000451		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<57.9	n/a	n/a	n/a	n/a	57.9	n/a	U
S09V000451		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<96.0	n/a	n/a	n/a	n/a	96.0	n/a	U
S09V000451		O	128-37-0	BHT	ug/kg	n/a	<236	<210	n/a	n/a	n/a	n/a	210	n/a	U
S09V000451		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<162	n/a	n/a	n/a	n/a	162	n/a	U
S09V000451		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<94.9	n/a	n/a	n/a	n/a	94.9	n/a	U
S09V000451		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<498	n/a	n/a	n/a	n/a	498	n/a	U
S09V000451		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<170	n/a	n/a	n/a	n/a	170	n/a	U
S09V000451		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<410	n/a	n/a	n/a	n/a	410	n/a	U
S09V000452		W	14762-75-5	Carbon-14	uCi/g	96.5	<6.77E-05	<8.03E-05	n/a	n/a	n/a	n/a	8.03E-05	n/a	U
S09V000452		W	10028-17-8	Tritium	uCi/g	90.5	<3.05E-04	<2.94E-04	n/a	n/a	n/a	n/a	2.94E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTC0
Sample Depth: 57-59

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000453		A	7429-90-5	Aluminum	ug/g	82.1	<0.0300	4.61E+03	n/a	n/a	n/a	n/a	5.63	n/a	
S09V000453		A	7440-39-3	Barium	ug/g	89.0	<3.00E-03	51.7	n/a	n/a	n/a	n/a	0.563	n/a	
S09V000453		A	7440-41-7	Beryllium	ug/g	92.2	<1.00E-03	<0.188	n/a	n/a	n/a	n/a	0.188	n/a	U
S09V000453		A	7440-70-2	Calcium	ug/g	80.8	0.0608	5.26E+03	n/a	n/a	n/a	n/a	9.38	n/a	
S09V000453		A	7440-45-1	Cerium	ug/g	96.1	<0.0300	23.3	n/a	n/a	n/a	n/a	5.63	n/a	J
S09V000453		A	7440-47-3	Chromium	ug/g	87.2	<5.00E-03	15.4	n/a	n/a	n/a	n/a	0.938	n/a	
S09V000453		A	7440-50-8	Copper	ug/g	88.5	<5.00E-03	9.51	n/a	n/a	n/a	n/a	0.938	n/a	
S09V000453		A	7440-53-1	Europium	ug/g	93.3	<5.00E-03	2.50	n/a	n/a	n/a	n/a	0.938	n/a	J
S09V000453		A	7439-89-6	Iron	ug/g	86.4	<5.00E-03	1.42E+04	n/a	n/a	n/a	n/a	0.938	n/a	
S09V000453		A	7440-09-7	Potassium	ug/g	81.8	<0.500	1.05E+03	n/a	n/a	n/a	n/a	93.8	n/a	
S09V000453		A	7439-91-0	Lanthanum	ug/g	89.3	<3.00E-03	8.97	n/a	n/a	n/a	n/a	0.563	n/a	
S09V000453		A	7439-93-2	Lithium	ug/g	90.3	<3.00E-03	7.61	n/a	n/a	n/a	n/a	0.563	n/a	
S09V000453		A	7439-95-4	Magnesium	ug/g	82.7	<0.0500	3.96E+03	n/a	n/a	n/a	n/a	9.38	n/a	
S09V000453		A	7439-96-5	Manganese	ug/g	85.8	<3.00E-03	213	n/a	n/a	n/a	n/a	0.563	n/a	
S09V000453		A	7439-98-7	Molybdenum	ug/g	88.9	<0.0200	<3.75	n/a	n/a	n/a	n/a	3.75	n/a	U
S09V000453		A	7440-23-5	Sodium	ug/g	89.6	<0.100	140	n/a	n/a	n/a	n/a	18.8	n/a	J
S09V000453		A	7440-00-8	Neodymium	ug/g	94.0	<0.0100	10.1	n/a	n/a	n/a	n/a	1.88	n/a	J
S09V000453		A	7723-14-0	Phosphorus	ug/g	89.7	<0.0500	469	n/a	n/a	n/a	n/a	9.38	n/a	
S09V000453		A	7704-34-9	Sulfur	ug/g	86.4	<0.100	60.5	n/a	n/a	n/a	n/a	18.8	n/a	J
S09V000453		A	7440-21-3	Silicon	ug/g	80.8	<0.0300	934	n/a	n/a	n/a	n/a	5.63	n/a	b
S09V000453		A	7440-24-6	Strontium	ug/g	88.5	<3.00E-03	17.5	n/a	n/a	n/a	n/a	0.563	n/a	
S09V000453		A	7440-32-6	Titanium	ug/g	88.9	<5.00E-03	801	n/a	n/a	n/a	n/a	0.938	n/a	b
S09V000453		A	7440-61-1	Uranium	ug/g	97.7	<0.100	<18.8	n/a	n/a	n/a	n/a	18.8	n/a	U
S09V000453		A	7440-65-5	Yttrium	ug/g	92.0	<2.00E-03	4.87	n/a	n/a	n/a	n/a	0.375	n/a	
S09V000453		A	7440-66-6	Zinc	ug/g	84.8	<5.00E-03	27.8	n/a	n/a	n/a	n/a	0.938	n/a	
S09V000453		A	7440-67-7	Zirconium	ug/g	81.2	<5.00E-03	5.66	n/a	n/a	n/a	n/a	0.938	n/a	J
S09V000453		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.63E-05	n/a	n/a	n/a	n/a	2.63E-05	n/a	U
S09V000453		A	TH-232	Thorium-232	ug/g	102	1.29E-04	3.07	n/a	n/a	n/a	n/a	6.38E-04	n/a	

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X - Comment
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e - SERDIL Outside Range

C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTC0
Sample Depth: 57-59

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000453		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.39E-04	n/a	n/a	n/a	n/a	3.75E-05	n/a	J
S09V000453		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.88E-05	n/a	n/a	n/a	n/a	1.88E-05	n/a	U
S09V000453		A	15117-96-1	Uranium-235	ug/g	96.5	5.35E-07	2.94E-03	n/a	n/a	n/a	n/a	4.13E-05	n/a	
S09V000453		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.50E-05	n/a	n/a	n/a	n/a	1.50E-05	n/a	U
S09V000453		A	13994-20-2	Neptunium-237	ug/g	107	<1.06E-06	<1.99E-04	n/a	n/a	n/a	n/a	1.99E-04	n/a	U
S09V000453		A	U-238	Uranium-238	ug/g	102	1.34E-04	0.398	n/a	n/a	n/a	n/a	2.06E-03	n/a	B
S09V000453		A	7440-22-4	Silver	ug/g	99.6	<8.00E-04	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S09V000453		A	7440-38-2	Arsenic	ug/g	103	<8.40E-04	2.82	n/a	n/a	n/a	n/a	0.158	n/a	
S09V000453		A	7440-48-4	Cobalt	ug/g	104	<4.00E-04	4.20	n/a	n/a	n/a	n/a	0.0750	n/a	
S09V000453		A	7440-43-9	Cadmium	ug/g	103	<6.00E-05	0.0492	n/a	n/a	n/a	n/a	0.0113	n/a	J
S09V000453		A	7439-92-1	Lead	ug/g	102	<6.20E-04	3.92	n/a	n/a	n/a	n/a	0.116	n/a	
S09V000453		A	7440-36-0	Antimony	ug/g	109	<8.80E-04	<0.165	n/a	n/a	n/a	n/a	0.165	n/a	U
S09V000453		A	7782-49-2	Selenium	ug/g	107	2.00E-03	<0.229	n/a	n/a	n/a	n/a	0.229	n/a	U
S09V000453		A	7440-28-0	Thallium	ug/g	118	5.12E-04	0.0769	n/a	n/a	n/a	n/a	0.0113	n/a	BJ
S09V000453		A	7440-62-2	Vanadium	ug/g	95.2	<4.80E-04	29.6	n/a	n/a	n/a	n/a	0.900	n/a	
S09V000453		A	7440-02-0	Nickel	ug/g	98.2	<1.20E-03	20.5	n/a	n/a	n/a	n/a	0.225	n/a	
S09V000454		S	14798-03-9	Ammonium	ug/g	98.4	0.0283	0.946	n/a	n/a	n/a	n/a	0.473	n/a	BJ
S09V000456		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.96E-07	<3.92E-07	n/a	n/a	n/a	n/a	3.92E-07	n/a	U
S09V000456		E	14596-10-2	Americium-241	uCi/g	101	<1.24E-06	<9.81E-07	n/a	n/a	n/a	n/a	9.81E-07	n/a	U
S09V000456		E	15510-73-3	Curium-242	uCi/g	n/a	<4.96E-07	<3.92E-07	n/a	n/a	n/a	n/a	3.92E-07	n/a	U
S09V000456		E	13981-37-8	Nickel-63	uCi/g	83.8	<4.99E-05	<4.53E-05	n/a	n/a	n/a	n/a	4.53E-05	n/a	U
S09V000456		E	PU-239/240	Plutonium-239/240	uCi/g	100	<8.52E-07	<6.67E-07	n/a	n/a	n/a	n/a	6.67E-07	n/a	U
S09V000456		E	13981-16-3	Plutonium-238	uCi/g	n/a	<8.52E-07	<6.67E-07	n/a	n/a	n/a	n/a	6.67E-07	n/a	U
S09V000456		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.72E-06	6.39E-06	n/a	n/a	n/a	n/a	2.15E-06	429.32	J
S09V000456		E	SR-89/90	Strontium-89/90	uCi/g	89.8	<1.68E-06	2.73E-06	n/a	n/a	n/a	n/a	1.23E-06	75.47	J
S09V001338		W	16984-48-8	Fluoride	ug/g	98.7	<1.61E-03	0.731	n/a	n/a	n/a	n/a	0.0196	n/a	
S09V001338		W	666-14-8	Glycolate	ug/g	102	<9.37E-03	<0.114	n/a	n/a	n/a	n/a	0.114	n/a	U
S09V001338		W	71-50-1	Acetate	ug/g	105	<6.04E-03	0.245	n/a	n/a	n/a	n/a	0.0736	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090325
Core Number: C6404
Customer Sample ID: B1YTC0
Sample Depth: 57-59

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001338	W	12311-97-6	Formate	ug/g	103	<4.67E-03	0.339	n/a	n/a	n/a	n/a	0.0569	n/a	BJ
S09V001338	W	16887-00-6	Chloride	ug/g	98.4	0.0122	2.09	n/a	n/a	n/a	n/a	0.122	n/a	Bc
S09V001338	W	14797-65-0	Nitrite	ug/g	104	<0.0192	0.838	n/a	n/a	n/a	n/a	0.234	n/a	J
S09V001338	W	14808-79-8	Sulfate	ug/g	101	<0.0187	18.4	n/a	n/a	n/a	n/a	0.228	n/a	c
S09V001338	W	338-70-5	Oxalate	ug/g	101	<0.0231	1.87	n/a	n/a	n/a	n/a	0.281	n/a	J
S09V001338	W	14797-55-8	Nitrate	ug/g	99.3	<0.0208	7.75	n/a	n/a	n/a	n/a	0.253	n/a	c
S09V001338	W	14265-44-2	Phosphate	ug/g	99.8	<0.0167	<0.203	n/a	n/a	n/a	n/a	0.203	n/a	U
S09V001560	A	14133-76-7	Technetium-99	ug/g	102	2.25E-05	<1.17E-03	n/a	n/a	n/a	n/a	1.17E-03	n/a	U
S09V001560	A	SN-117	Tin-117	ug/g	111	<2.20E-04	<0.0430	n/a	n/a	n/a	n/a	0.0430	n/a	U
S09V001560	A	15832-50-5	Tin-126	ug/g	n/a	1.03E-05	<7.82E-04	n/a	n/a	n/a	n/a	7.82E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090345
Core Number: C6404
Customer Sample ID: B1YY23
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000377			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000377			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V000377			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000377			75-35-4	1,1-Dichloroethene	ug/L	110	<0.170	<0.189	n/a	n/a	n/a	109	0.189	n/a	U
S09V000377			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000377			71-36-3	1-Butanol	ug/L	97.4	<7.77	<8.63	n/a	n/a	n/a	110	8.63	n/a	U
S09V000377			108-10-1	Hexone	ug/L	112	<0.880	<0.978	n/a	n/a	n/a	114	0.978	n/a	U
S09V000377			67-64-1	Acetone	ug/L	114	<2.19	<2.43	n/a	n/a	n/a	118	2.43	n/a	U
S09V000377			71-43-2	Benzene	ug/L	100	<0.160	<0.178	n/a	n/a	n/a	99.6	0.178	n/a	U
S09V000377			75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000377			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000377			67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000377			108-90-7	Chlorobenzene	ug/L	101	<0.110	<0.122	n/a	n/a	n/a	98.8	0.122	n/a	U
S09V000377			100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V000377			1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V000377			78-93-3	2-Butanone	ug/L	108	<1.33	<1.48	n/a	n/a	n/a	112	1.48	n/a	U
S09V000377			75-09-2	Methylenechloride	ug/L	n/a	<0.170	5.44	n/a	n/a	n/a	n/a	0.189	n/a	
S09V000377			127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V000377			108-88-3	Toluene	ug/L	103	<0.120	<0.133	n/a	n/a	n/a	101	0.133	n/a	U
S09V000377			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V000377			79-01-6	Trichloroethene	ug/L	98.6	<0.150	<0.167	n/a	n/a	n/a	97.6	0.167	n/a	U
S09V000377			75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V000377			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V000377			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000377			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000377			79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V000377			141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V000377			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090345
Core Number: C6404
Customer Sample ID: B1YY23
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000377			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V000377			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000377			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTC7
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000476			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.333	n/a	n/a	n/a	n/a	0.333	n/a	U
S09V000476			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.633	n/a	n/a	n/a	n/a	0.633	n/a	U
S09V000476			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.833	n/a	n/a	n/a	n/a	0.833	n/a	U
S09V000476			75-35-4	1,1-Dichloroethene	ug/kg	96.4	<0.340	<0.567	n/a	n/a	n/a	n/a	0.567	n/a	U
S09V000476			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.300	n/a	n/a	n/a	n/a	0.300	n/a	U
S09V000476			71-36-3	1-Butanol	ug/kg	104	<15.5	<25.9	n/a	n/a	n/a	n/a	25.9	n/a	Uc
S09V000476			108-10-1	Hexone	ug/kg	109	<1.76	<2.93	n/a	n/a	n/a	n/a	2.93	n/a	U
S09V000476			67-64-1	Acetone	ug/kg	121	6.05	12.3	n/a	n/a	n/a	n/a	7.30	n/a	BJ
S09V000476			71-43-2	Benzene	ug/kg	97.3	<0.320	<0.533	n/a	n/a	n/a	n/a	0.533	n/a	U
S09V000476			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S09V000476			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S09V000476			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.300	n/a	n/a	n/a	n/a	0.300	n/a	U
S09V000476			108-90-7	Chlorobenzene	ug/kg	94.4	<0.220	<0.367	n/a	n/a	n/a	n/a	0.367	n/a	U
S09V000476			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.400	n/a	n/a	n/a	n/a	0.400	n/a	U
S09V000476			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<1.03	n/a	n/a	n/a	n/a	1.03	n/a	U
S09V000476			78-93-3	2-Butanone	ug/kg	113	<2.66	<4.43	n/a	n/a	n/a	n/a	4.43	n/a	U
S09V000476			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	1.14	n/a	n/a	n/a	n/a	0.567	n/a	J
S09V000476			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.667	n/a	n/a	n/a	n/a	0.667	n/a	U
S09V000476			108-88-3	Toluene	ug/kg	94.3	<0.240	<0.400	n/a	n/a	n/a	n/a	0.400	n/a	U
S09V000476			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U
S09V000476			79-01-6	Trichloroethene	ug/kg	98.0	<0.300	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S09V000476			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<1.07	n/a	n/a	n/a	n/a	1.07	n/a	U
S09V000476			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U
S09V000476			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.600	n/a	n/a	n/a	n/a	0.600	n/a	U
S09V000476			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.833	n/a	n/a	n/a	n/a	0.833	n/a	U
S09V000476			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<2.63	n/a	n/a	n/a	n/a	2.63	n/a	U
S09V000476			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<1.62	n/a	n/a	n/a	n/a	1.62	n/a	U
S09V000476			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<1.48	n/a	n/a	n/a	n/a	1.48	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTC7
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000476			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<3.23	n/a	n/a	n/a	n/a	3.23	n/a	U
S09V000476			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.333	n/a	n/a	n/a	n/a	0.333	n/a	U
S09V000476			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.700	n/a	n/a	n/a	n/a	0.700	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTC9
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000482			%WATERA	%WATER-APD	%	n/a	n/a	6.244	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000482			57-12-5	Cyanide	ug/g	109	<0.0370	<3.95	n/a	n/a	n/a	n/a	3.95	n/a	U
S09V000482			7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0105	n/a	n/a	n/a	n/a	0.0105	n/a	U
S09V000482			PH	pH	unitless	n/a	n/a	8.74	8.79	8.765	0.570	n/a	0.0100	n/a	
S09V000482			18496-25-8	Sulfide	ug/g	98.2	<0.180	19.0	n/a	n/a	n/a	n/a	7.28	n/a	J
S09V000484			10198-40-0	Cobalt-60	uCi/g	104	<2.77E-06	<2.68E-06	n/a	n/a	n/a	n/a	2.68E-06	n/a	U
S09V000484			14234-35-6	Antimony-125	uCi/g	n/a	<6.40E-06	<6.40E-06	n/a	n/a	n/a	n/a	6.40E-06	n/a	U
S09V000484			10045-97-3	Cesium-137	uCi/g	103	<2.99E-06	<3.01E-06	n/a	n/a	n/a	n/a	3.01E-06	n/a	U
S09V000484			14683-23-9	Europium-152	uCi/g	n/a	<1.36E-05	<1.18E-05	n/a	n/a	n/a	n/a	1.18E-05	n/a	U
S09V000484			15585-10-1	Europium-154	uCi/g	n/a	<8.68E-06	<8.10E-06	n/a	n/a	n/a	n/a	8.10E-06	n/a	U
S09V000484			14391-16-3	Europium-155	uCi/g	n/a	<5.49E-06	<5.44E-06	n/a	n/a	n/a	n/a	5.44E-06	n/a	U
S09V000484			15046-84-1	Iodine-129	uCi/g	86.7	<4.40E-07	<4.60E-07	n/a	n/a	n/a	n/a	4.60E-07	n/a	U
S09V000485		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	57.5	<77.4	<76.4	n/a	n/a	n/a	n/a	76.4	n/a	U
S09V000485		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
S09V000485		O	106-46-7	1,4-Dichlorobenzene	ug/kg	54.8	<113	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V000485		O	121-14-2	2,4-Dinitrotoluene	ug/kg	66.9	<38.1	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S09V000485		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
S09V000485		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
S09V000485		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
S09V000485		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.0	n/a	n/a	n/a	n/a	53.0	n/a	U
S09V000485		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S09V000485		O	83-32-9	Acenaphthene	ug/kg	63.8	<17.6	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S09V000485		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S09V000485		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
S09V000485		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
S09V000485		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
S09V000485		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.6	n/a	n/a	n/a	n/a	38.6	n/a	U
S09V000485		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

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTC9
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000485		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
S09V000485		O	95-57-8	2-Chlorophenol	ug/kg	57.7	<66.5	<65.7	n/a	n/a	n/a	n/a	65.7	n/a	U
S09V000485		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.4	n/a	n/a	n/a	n/a	80.4	n/a	U
S09V000485		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
S09V000485		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<555	n/a	n/a	n/a	n/a	555	n/a	U
S09V000485		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.1	n/a	n/a	n/a	n/a	47.1	n/a	U
S09V000485		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	52.0	<58.1	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S09V000485		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
S09V000485		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<68.8	n/a	n/a	n/a	n/a	68.8	n/a	U
S09V000485		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V000485		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
S09V000485		O	108-95-2	Phenol	ug/kg	57.9	<59.4	<58.7	n/a	n/a	n/a	n/a	58.7	n/a	U
S09V000485		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<61.8	n/a	n/a	n/a	n/a	61.8	n/a	U
S09V000485		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.8	n/a	n/a	n/a	n/a	63.8	n/a	U
S09V000485		O	100-02-7	4-Nitrophenol	ug/kg	71.5	<52.6	<52.0	n/a	n/a	n/a	n/a	52.0	n/a	U
S09V000485		O	87-86-5	Pentachlorophenol	ug/kg	72.9	<37.5	<37.0	n/a	n/a	n/a	n/a	37.0	n/a	U
S09V000485		O	129-00-0	Pyrene	ug/kg	73.0	<62.9	<62.1	n/a	n/a	n/a	n/a	62.1	n/a	U
S09V000485		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.2	n/a	n/a	n/a	n/a	64.2	n/a	U
S09V000485		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V000485		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S09V000485		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S09V000485		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V000485		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<552	n/a	n/a	n/a	n/a	552	n/a	U
S09V000485		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S09V000485		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
S09V000486		W	14762-75-5	Carbon-14	uCi/g	95.2	<5.15E-05	<5.76E-05	n/a	n/a	n/a	n/a	5.76E-05	n/a	U
S09V000486		W	10028-17-8	Tritium	uCi/g	94.1	<4.23E-04	<2.98E-04	n/a	n/a	n/a	n/a	2.98E-04	n/a	U
S09V000488		S	14798-03-9	Ammonium	ug/g	98.4	0.0406	2.77	2.94	2.855	5.63	97.4	0.474	n/a	BJ

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTC9
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000489		A	14133-76-7	Technetium-99	ug/g	103	<6.00E-06	<1.01E-03	n/a	n/a	n/a	n/a	1.01E-03	n/a	U
S09V000489		A	SN-117	Tin-117	ug/g	105	<2.20E-04	<0.0369	n/a	n/a	n/a	n/a	0.0369	n/a	U
S09V000489		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<6.71E-04	n/a	n/a	n/a	n/a	6.71E-04	n/a	U
S09V000509		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.69E-07	<4.13E-07	n/a	n/a	n/a	n/a	4.13E-07	n/a	U
S09V000509		E	14596-10-2	Americium-241	uCi/g	101	<1.17E-06	<1.03E-06	n/a	n/a	n/a	n/a	1.03E-06	n/a	U
S09V000509		E	15510-73-3	Curium-242	uCi/g	n/a	<4.69E-07	<4.13E-07	n/a	n/a	n/a	n/a	4.13E-07	n/a	U
S09V000509		E	13981-37-8	Nickel-63	uCi/g	83.7	<5.65E-05	<5.82E-05	<4.39E-06	n/a	n/a	n/a	5.82E-05	n/a	U
S09V000509		E	PU-239/240	Plutonium-239/240	uCi/g	99.6	<6.99E-07	<6.36E-07	n/a	n/a	n/a	n/a	6.36E-07	n/a	U
S09V000509		E	13981-16-3	Plutonium-238	uCi/g	n/a	<6.99E-07	<6.36E-07	n/a	n/a	n/a	n/a	6.36E-07	n/a	U
S09V000509		E	15758-45-9	Selenium-79	uCi/g	n/a	<1.51E-06	<1.82E-06	n/a	n/a	n/a	n/a	1.82E-06	n/a	U
S09V000509		E	SR-89/90	Strontium-89/90	uCi/g	95.7	<2.74E-06	1.28E-05	n/a	n/a	n/a	n/a	1.98E-06	29.54	
S09V001310		A	7429-90-5	Aluminum	ug/g	90.7	<0.0300	7.18E+03	5.03E+03	6105	35.2	650	5.72	n/a	c
S09V001310		A	7440-39-3	Barium	ug/g	95.2	<3.00E-03	86.1	76.6	81.35	11.7	98.6	0.572	n/a	
S09V001310		A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	0.248	<0.198	n/a	n/a	94.4	0.191	n/a	J
S09V001310		A	7440-70-2	Calcium	ug/g	85.6	<0.0500	7.69E+03	5.10E+03	6395	40.4	497	9.54	n/a	ce
S09V001310		A	7440-45-1	Cerium	ug/g	106	<0.0300	27.5	15.8	21.65	53.8	0.616	5.72	n/a	Jb
S09V001310		A	7440-48-4	Cobalt	ug/g	91.7	<0.0100	8.60	6.22	7.41	32.1	91.1	1.91	n/a	J
S09V001310		A	7440-47-3	Chromium	ug/g	93.1	<5.00E-03	9.26	7.88	8.57	16.1	92.2	0.954	n/a	
S09V001310		A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	12.4	7.93	10.165	44.0	94.6	0.954	n/a	c
S09V001310		A	7440-53-1	Europium	ug/g	94.7	<5.00E-03	1.74	1.21	1.475	36.3	90.4	0.954	n/a	J
S09V001310		A	7439-89-6	Iron	ug/g	92.2	<5.00E-03	2.24E+04	1.51E+04	18750	39.1	384	0.954	n/a	ce
S09V001310		A	7440-09-7	Potassium	ug/g	86.0	<0.500	1.30E+03	1.04E+03	1170	22.0	168	95.4	n/a	b
S09V001310		A	7439-91-0	Lanthanum	ug/g	95.0	<3.00E-03	11.5	8.53	10.015	29.4	94.3	0.572	n/a	
S09V001310		A	7439-93-2	Lithium	ug/g	92.1	<3.00E-03	8.46	6.48	7.47	26.5	93.4	0.572	n/a	
S09V001310		A	7439-95-4	Magnesium	ug/g	89.1	<0.0500	4.89E+03	3.28E+03	4085	39.4	236	9.54	n/a	ce
S09V001310		A	7439-96-5	Manganese	ug/g	90.5	<3.00E-03	349	233	291	39.8	96.2	0.572	n/a	ce
S09V001310		A	7439-98-7	Molybdenum	ug/g	89.2	<0.0200	<3.82	<3.96	n/a	n/a	87.8	3.82	n/a	U
S09V001310		A	7440-23-5	Sodium	ug/g	90.0	<0.100	298	191	244.5	43.5	163	19.1	n/a	bc

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTC9
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001310		A	7440-00-8	Neodymium	ug/g	97.8	<0.0100	25.6	17.0	21.3	40.2	94.7	1.91	n/a	c
S09V001310		A	7723-14-0	Phosphorus	ug/g	89.3	<0.0500	908	530	719	52.6	74.5	9.54	n/a	bc
S09V001310		A	7440-10-0	Praseodymium	ug/g	101	<0.0100	2.09	3.14	2.615	39.9	96.0	1.91	n/a	BJ
S09V001310		A	7704-34-9	Sulfur	ug/g	91.1	<0.100	76.9	50.8	63.85	40.8	91.5	19.1	n/a	J
S09V001310		A	7440-21-3	Silicon	ug/g	66.2	<0.0300	703	663	683	5.87	79.6	5.72	n/a	ae
S09V001310		A	7440-31-5	Tin	ug/g	87.0	<0.0300	7.75	<5.94	n/a	n/a	87.3	5.72	n/a	J
S09V001310		A	7440-24-6	Strontium	ug/g	95.7	<3.00E-03	39.1	26.4	32.75	38.8	96.7	0.572	n/a	c
S09V001310		A	7440-32-6	Titanium	ug/g	91.0	<5.00E-03	1.82E+03	1.14E+03	1480	45.7	107	0.954	n/a	c
S09V001310		A	7440-61-1	Uranium	ug/g	105	<0.100	<19.1	<19.8	n/a	n/a	98.0	19.1	n/a	U
S09V001310		A	7440-33-7	Tungsten	ug/g	54.4	<0.200	43.8	<39.6	n/a	n/a	52.5	38.2	n/a	Jab
S09V001310		A	7440-65-5	Yttrium	ug/g	93.1	<2.00E-03	9.44	5.78	7.61	48.0	89.0	0.382	n/a	c
S09V001310		A	7440-66-6	Zinc	ug/g	89.1	<5.00E-03	40.9	28.8	34.85	34.7	90.2	0.954	n/a	c
S09V001310		A	7440-67-7	Zirconium	ug/g	90.6	<5.00E-03	20.0	n/a	n/a	n/a	88.9	0.954	n/a	
S09V001310		A	7440-22-4	Silver	ug/g	107	<8.00E-04	<0.153	<0.158	n/a	n/a	106	0.153	n/a	U
S09V001310		A	7440-38-2	Arsenic	ug/g	105	<8.40E-04	4.19	4.10	4.145	2.18	105	0.160	n/a	
S09V001310		A	7440-43-9	Cadmium	ug/g	97.0	<6.00E-05	0.0991	0.0713	.0852	32.7	93.9	0.0114	n/a	J
S09V001310		A	7439-92-1	Lead	ug/g	105	<6.20E-04	8.06	4.99	6.525	46.9	99.9	0.118	n/a	c
S09V001310		A	7440-36-0	Antimony	ug/g	100	<8.80E-04	<0.168	<0.174	n/a	n/a	82.4	0.168	n/a	U
S09V001310		A	7782-49-2	Selenium	ug/g	103	2.52E-03	<0.233	<0.242	n/a	n/a	99.2	0.233	n/a	U
S09V001310		A	7440-28-0	Thallium	ug/g	104	<6.00E-05	0.144	0.0786	.1113	58.7	104	0.0114	n/a	c
S09V001310		A	7440-62-2	Vanadium	ug/g	104	<4.80E-04	60.8	39.1	49.95	43.5	103	0.916	n/a	c
S09V001310		A	7440-02-0	Nickel	ug/g	103	<1.20E-03	9.65	7.73	8.69	22.1	102	0.229	n/a	
S09V001341		W	16984-48-8	Fluoride	ug/g	106	<0.0805	1.34	1.70	1.52	23.4	105	0.0201	n/a	
S09V001341		W	666-14-8	Glycolate	ug/g	106	<0.468	<0.117	<0.117	n/a	n/a	106	0.117	n/a	U
S09V001341		W	71-50-1	Acetate	ug/g	110	<0.302	1.11	0.647	.8785	52.6	109	0.0755	n/a	J
S09V001341		W	12311-97-6	Formate	ug/g	108	<0.234	0.631	0.538	.5845	15.8	107	0.0583	n/a	J
S09V001341		W	16887-00-6	Chloride	ug/g	104	<0.499	1.52	1.72	1.62	12.9	104	0.125	n/a	
S09V001341		W	14797-65-0	Nitrite	ug/g	106	<0.960	4.80	2.91	3.855	49.0	106	0.240	n/a	c

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTC9
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001341		W	14808-79-8	Sulfate	ug/g	107	<0.935	41.7	46.4	44.05	10.7	105	0.234	n/a	
S09V001341		W	338-70-5	Oxalate	ug/g	105	<1.16	0.916	0.739	.8275	21.3	104	0.289	n/a	J
S09V001341		W	14797-55-8	Nitrate	ug/g	104	<1.04	9.84	8.32	9.08	16.7	105	0.260	n/a	
S09V001341		W	14265-44-2	Phosphate	ug/g	105	<0.835	2.57	3.03	2.8	16.5	104	0.209	n/a	J
S09V001570		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	2.67E-05	n/a	n/a	n/a	n/a	2.65E-05	n/a	J
S09V001570		A	TH-232	Thorium-232	ug/g	96.8	<3.40E-06	2.85	n/a	n/a	n/a	n/a	6.43E-04	n/a	
S09V001570		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.24E-04	n/a	n/a	n/a	n/a	3.78E-05	n/a	J
S09V001570		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	6.81E-05	n/a	n/a	n/a	n/a	1.89E-05	n/a	J
S09V001570		A	15117-96-1	Uranium-235	ug/g	90.7	<2.20E-07	6.95E-03	n/a	n/a	n/a	n/a	4.16E-05	n/a	
S09V001570		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	5.70E-05	n/a	n/a	n/a	n/a	1.51E-05	n/a	J
S09V001570		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<2.01E-04	n/a	n/a	n/a	n/a	2.01E-04	n/a	U
S09V001570		A	U-238	Uranium-238	ug/g	97.4	<1.10E-05	1.05	n/a	n/a	n/a	n/a	2.08E-03	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD0
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000494			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.312	n/a	n/a	n/a	n/a	0.312	n/a	U
S09V000494			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.594	n/a	n/a	n/a	n/a	0.594	n/a	U
S09V000494			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.781	n/a	n/a	n/a	n/a	0.781	n/a	U
S09V000494			75-35-4	1,1-Dichloroethene	ug/kg	96.4	<0.340	<0.531	n/a	n/a	n/a	83.0	0.531	n/a	U
S09V000494			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.281	n/a	n/a	n/a	n/a	0.281	n/a	U
S09V000494			71-36-3	1-Butanol	ug/kg	104	<15.5	<24.3	n/a	n/a	n/a	79.0	24.3	n/a	Uc
S09V000494			108-10-1	Hexone	ug/kg	109	<1.76	<2.75	n/a	n/a	n/a	99.3	2.75	n/a	U
S09V000494			67-64-1	Acetone	ug/kg	121	6.05	13.1	n/a	n/a	n/a	89.8	6.84	n/a	BJ
S09V000494			71-43-2	Benzene	ug/kg	97.3	<0.320	<0.500	n/a	n/a	n/a	82.7	0.500	n/a	U
S09V000494			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.469	n/a	n/a	n/a	n/a	0.469	n/a	U
S09V000494			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.469	n/a	n/a	n/a	n/a	0.469	n/a	U
S09V000494			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.281	n/a	n/a	n/a	n/a	0.281	n/a	U
S09V000494			108-90-7	Chlorobenzene	ug/kg	94.4	<0.220	<0.344	n/a	n/a	n/a	87.5	0.344	n/a	U
S09V000494			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.375	n/a	n/a	n/a	n/a	0.375	n/a	U
S09V000494			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.969	n/a	n/a	n/a	n/a	0.969	n/a	U
S09V000494			78-93-3	2-Butanone	ug/kg	113	<2.66	<4.16	n/a	n/a	n/a	95.2	4.16	n/a	U
S09V000494			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	0.795	n/a	n/a	n/a	n/a	0.531	n/a	J
S09V000494			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.625	n/a	n/a	n/a	n/a	0.625	n/a	U
S09V000494			108-88-3	Toluene	ug/kg	94.3	<0.240	<0.375	n/a	n/a	n/a	85.7	0.375	n/a	U
S09V000494			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.219	n/a	n/a	n/a	n/a	0.219	n/a	U
S09V000494			79-01-6	Trichloroethene	ug/kg	98.0	<0.300	<0.469	n/a	n/a	n/a	83.5	0.469	n/a	U
S09V000494			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<1.00	n/a	n/a	n/a	n/a	1.00	n/a	U
S09V000494			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.406	n/a	n/a	n/a	n/a	0.406	n/a	U
S09V000494			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.562	n/a	n/a	n/a	n/a	0.562	n/a	U
S09V000494			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.781	n/a	n/a	n/a	n/a	0.781	n/a	U
S09V000494			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<2.46	n/a	n/a	n/a	n/a	2.46	n/a	U
S09V000494			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<1.52	n/a	n/a	n/a	n/a	1.52	n/a	U
S09V000494			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<1.38	n/a	n/a	n/a	n/a	1.38	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD0
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000494			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<3.03	n/a	n/a	n/a	n/a	3.03	n/a	U
S09V000494			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.312	n/a	n/a	n/a	n/a	0.312	n/a	U
S09V000494			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.656	n/a	n/a	n/a	n/a	0.656	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD2
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000500			%WATERA	%WATER-APD	%	n/a	n/a	8.030	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000500			57-12-5	Cyanide	ug/g	109	<0.0370	<3.67	n/a	n/a	n/a	n/a	3.67	n/a	U
S09V000500			7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0104	n/a	n/a	n/a	n/a	0.0104	n/a	U
S09V000500			PH	pH	unitless	n/a	n/a	8.95	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000500			18496-25-8	Sulfide	ug/g	98.2	<0.180	27.2	n/a	n/a	n/a	n/a	7.25	n/a	J
S09V000502			10198-40-0	Cobalt-60	uCi/g	104	<2.77E-06	<3.00E-06	n/a	n/a	n/a	n/a	3.00E-06	n/a	U
S09V000502			14234-35-6	Antimony-125	uCi/g	n/a	<6.40E-06	<6.81E-06	n/a	n/a	n/a	n/a	6.81E-06	n/a	U
S09V000502			10045-97-3	Cesium-137	uCi/g	103	<2.99E-06	<3.08E-06	n/a	n/a	n/a	n/a	3.08E-06	n/a	U
S09V000502			14683-23-9	Europium-152	uCi/g	n/a	<1.36E-05	<1.34E-05	n/a	n/a	n/a	n/a	1.34E-05	n/a	U
S09V000502			15585-10-1	Europium-154	uCi/g	n/a	<8.68E-06	<9.45E-06	n/a	n/a	n/a	n/a	9.45E-06	n/a	U
S09V000502			14391-16-3	Europium-155	uCi/g	n/a	<5.49E-06	<6.05E-06	n/a	n/a	n/a	n/a	6.05E-06	n/a	U
S09V000502			15046-84-1	Iodine-129	uCi/g	86.7	<4.40E-07	<3.64E-07	n/a	n/a	n/a	n/a	3.64E-07	n/a	U
S09V000503		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	57.5	<77.4	<76.9	n/a	n/a	n/a	n/a	76.9	n/a	U
S09V000503		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
S09V000503		O	106-46-7	1,4-Dichlorobenzene	ug/kg	54.8	<113	<113	n/a	n/a	n/a	n/a	113	n/a	U
S09V000503		O	121-14-2	2,4-Dinitrotoluene	ug/kg	66.9	<38.1	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S09V000503		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<43.7	n/a	n/a	n/a	n/a	43.7	n/a	U
S09V000503		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S09V000503		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.1	n/a	n/a	n/a	n/a	57.1	n/a	U
S09V000503		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
S09V000503		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S09V000503		O	83-32-9	Acenaphthene	ug/kg	63.8	<17.6	<17.5	n/a	n/a	n/a	n/a	17.5	n/a	U
S09V000503		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
S09V000503		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.6	n/a	n/a	n/a	n/a	48.6	n/a	U
S09V000503		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
S09V000503		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<586	n/a	n/a	n/a	n/a	586	n/a	U
S09V000503		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
S09V000503		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

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD2
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000503		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.4	<43.2	<42.9	n/a	n/a	n/a	n/a	42.9	n/a	U
S09V000503		O	95-57-8	2-Chlorophenol	ug/kg	57.7	<66.5	<66.1	n/a	n/a	n/a	n/a	66.1	n/a	U
S09V000503		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<80.9	n/a	n/a	n/a	n/a	80.9	n/a	U
S09V000503		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
S09V000503		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
S09V000503		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U
S09V000503		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	52.0	<58.1	<57.7	n/a	n/a	n/a	n/a	57.7	n/a	U
S09V000503		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
S09V000503		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.2	n/a	n/a	n/a	n/a	69.2	n/a	U
S09V000503		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V000503		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
S09V000503		O	108-95-2	Phenol	ug/kg	57.9	<59.4	<59.0	n/a	n/a	n/a	n/a	59.0	n/a	U
S09V000503		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.2	n/a	n/a	n/a	n/a	62.2	n/a	U
S09V000503		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.2	n/a	n/a	n/a	n/a	64.2	n/a	U
S09V000503		O	100-02-7	4-Nitrophenol	ug/kg	71.5	<52.6	<52.3	n/a	n/a	n/a	n/a	52.3	n/a	U
S09V000503		O	87-86-5	Pentachlorophenol	ug/kg	72.9	<37.5	<37.3	n/a	n/a	n/a	n/a	37.3	n/a	U
S09V000503		O	129-00-0	Pyrene	ug/kg	73.0	<62.9	<62.5	n/a	n/a	n/a	n/a	62.5	n/a	U
S09V000503		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.6	n/a	n/a	n/a	n/a	64.6	n/a	U
S09V000503		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000503		O	128-37-0	BHT	ug/kg	n/a	<236	<234	n/a	n/a	n/a	n/a	234	n/a	U
S09V000503		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<181	n/a	n/a	n/a	n/a	181	n/a	U
S09V000503		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V000503		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<555	n/a	n/a	n/a	n/a	555	n/a	U
S09V000503		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<190	n/a	n/a	n/a	n/a	190	n/a	U
S09V000503		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<457	n/a	n/a	n/a	n/a	457	n/a	U
S09V000504		W	14762-75-5	Carbon-14	uCi/g	95.2	<5.15E-05	<7.94E-05	n/a	n/a	n/a	n/a	7.94E-05	n/a	U
S09V000504		W	10028-17-8	Tritium	uCi/g	94.1	<4.23E-04	<2.87E-04	n/a	n/a	n/a	n/a	2.87E-04	n/a	U
S09V000506		S	14798-03-9	Ammonium	ug/g	98.4	0.0406	2.87	n/a	n/a	n/a	n/a	0.471	n/a	BJ

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD2
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000507		A	14133-76-7	Technetium-99	ug/g	103	<6.00E-06	<1.08E-03	n/a	n/a	n/a	n/a	1.08E-03	n/a	U
S09V000507		A	SN-117	Tin-117	ug/g	105	<2.20E-04	<0.0396	n/a	n/a	n/a	n/a	0.0396	n/a	U
S09V000507		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.20E-04	n/a	n/a	n/a	n/a	7.20E-04	n/a	U
S09V000508		E	CM-243/244	Curium-243/244	uCi/g	n/a	<8.04E-07	<7.20E-07	n/a	n/a	n/a	n/a	7.20E-07	n/a	U
S09V000508		E	14596-10-2	Americium-241	uCi/g	97.6	<2.01E-06	<1.80E-06	n/a	n/a	n/a	n/a	1.80E-06	n/a	U
S09V000508		E	15510-73-3	Curium-242	uCi/g	n/a	<8.04E-07	<7.20E-07	n/a	n/a	n/a	n/a	7.20E-07	n/a	U
S09V000508		E	13981-37-8	Nickel-63	uCi/g	110	2.04E-04	<1.12E-04	n/a	n/a	n/a	n/a	1.12E-04	n/a	U
S09V000508		E	PU-239/240	Plutonium-239/240	uCi/g	96.6	<1.59E-06	<1.48E-06	n/a	n/a	n/a	n/a	1.48E-06	n/a	U
S09V000508		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.59E-06	<1.48E-06	n/a	n/a	n/a	n/a	1.48E-06	n/a	U
S09V000508		E	15758-45-9	Selenium-79	uCi/g	n/a	4.58E-06	<7.58E-06	n/a	n/a	n/a	n/a	7.58E-06	n/a	U
S09V000508		E	SR-89/90	Strontium-89/90	uCi/g	100	5.69E-06	<8.79E-06	n/a	n/a	n/a	n/a	8.79E-06	n/a	U
S09V001311		A	7429-90-5	Aluminum	ug/g	90.7	<0.0300	6.87E+03	n/a	n/a	n/a	n/a	5.13	n/a	c
S09V001311		A	7440-39-3	Barium	ug/g	95.2	<3.00E-03	82.5	n/a	n/a	n/a	n/a	0.513	n/a	
S09V001311		A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	0.275	n/a	n/a	n/a	n/a	0.171	n/a	J
S09V001311		A	7440-70-2	Calcium	ug/g	85.6	<0.0500	1.08E+04	n/a	n/a	n/a	n/a	8.55	n/a	c
S09V001311		A	7440-45-1	Cerium	ug/g	106	<0.0300	31.1	n/a	n/a	n/a	n/a	5.13	n/a	Jb
S09V001311		A	7440-48-4	Cobalt	ug/g	91.7	<0.0100	9.24	n/a	n/a	n/a	n/a	1.71	n/a	J
S09V001311		A	7440-47-3	Chromium	ug/g	93.1	<5.00E-03	10.6	n/a	n/a	n/a	n/a	0.855	n/a	
S09V001311		A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	12.6	n/a	n/a	n/a	n/a	0.855	n/a	c
S09V001311		A	7440-53-1	Europium	ug/g	94.7	<5.00E-03	2.26	n/a	n/a	n/a	n/a	0.855	n/a	J
S09V001311		A	7439-89-6	Iron	ug/g	92.2	<5.00E-03	2.43E+04	n/a	n/a	n/a	n/a	0.855	n/a	c
S09V001311		A	7440-09-7	Potassium	ug/g	86.0	<0.500	1.21E+03	n/a	n/a	n/a	n/a	85.5	n/a	b
S09V001311		A	7439-91-0	Lanthanum	ug/g	95.0	<3.00E-03	12.4	n/a	n/a	n/a	n/a	0.513	n/a	
S09V001311		A	7439-93-2	Lithium	ug/g	92.1	<3.00E-03	8.23	n/a	n/a	n/a	n/a	0.513	n/a	
S09V001311		A	7439-95-4	Magnesium	ug/g	89.1	<0.0500	5.82E+03	n/a	n/a	n/a	n/a	8.55	n/a	c
S09V001311		A	7439-96-5	Manganese	ug/g	90.5	<3.00E-03	385	n/a	n/a	n/a	n/a	0.513	n/a	c
S09V001311		A	7439-98-7	Molybdenum	ug/g	89.2	<0.0200	<3.42	n/a	n/a	n/a	n/a	3.42	n/a	U
S09V001311		A	7440-23-5	Sodium	ug/g	90.0	<0.100	281	n/a	n/a	n/a	n/a	17.1	n/a	bc

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD2
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001311		A	7440-00-8	Neodymium	ug/g	97.8	<0.0100	25.9	n/a	n/a	n/a	n/a	1.71	n/a	c
S09V001311		A	7723-14-0	Phosphorus	ug/g	89.3	<0.0500	879	n/a	n/a	n/a	n/a	8.55	n/a	bc
S09V001311		A	7440-10-0	Praseodymium	ug/g	101	<0.0100	4.18	n/a	n/a	n/a	n/a	1.71	n/a	BJ
S09V001311		A	7704-34-9	Sulfur	ug/g	91.1	<0.100	92.3	n/a	n/a	n/a	n/a	17.1	n/a	J
S09V001311		A	7440-21-3	Silicon	ug/g	66.2	<0.0300	527	n/a	n/a	n/a	n/a	5.13	n/a	a
S09V001311		A	7440-31-5	Tin	ug/g	87.0	<0.0300	7.97	n/a	n/a	n/a	n/a	5.13	n/a	J
S09V001311		A	7440-24-6	Strontium	ug/g	95.7	<3.00E-03	37.3	n/a	n/a	n/a	n/a	0.513	n/a	c
S09V001311		A	7440-32-6	Titanium	ug/g	91.0	<5.00E-03	1.86E+03	n/a	n/a	n/a	n/a	0.855	n/a	c
S09V001311		A	7440-61-1	Uranium	ug/g	105	<0.100	<17.1	n/a	n/a	n/a	n/a	17.1	n/a	U
S09V001311		A	7440-65-5	Yttrium	ug/g	93.1	<2.00E-03	10.1	n/a	n/a	n/a	n/a	0.342	n/a	c
S09V001311		A	7440-66-6	Zinc	ug/g	89.1	<5.00E-03	42.7	n/a	n/a	n/a	n/a	0.855	n/a	c
S09V001311		A	7440-67-7	Zirconium	ug/g	90.6	<5.00E-03	19.1	n/a	n/a	n/a	n/a	0.855	n/a	
S09V001311		A	7440-22-4	Silver	ug/g	107	<8.00E-04	0.149	n/a	n/a	n/a	n/a	0.137	n/a	J
S09V001311		A	7440-38-2	Arsenic	ug/g	105	<8.40E-04	5.90	n/a	n/a	n/a	n/a	0.144	n/a	
S09V001311		A	7440-43-9	Cadmium	ug/g	97.0	<6.00E-05	0.108	n/a	n/a	n/a	n/a	0.0103	n/a	
S09V001311		A	7439-92-1	Lead	ug/g	105	<6.20E-04	7.62	n/a	n/a	n/a	n/a	0.106	n/a	c
S09V001311		A	7440-36-0	Antimony	ug/g	100	<8.80E-04	0.367	n/a	n/a	n/a	n/a	0.150	n/a	J
S09V001311		A	7782-49-2	Selenium	ug/g	103	2.52E-03	<0.209	n/a	n/a	n/a	n/a	0.209	n/a	U
S09V001311		A	7440-28-0	Thallium	ug/g	104	<6.00E-05	0.115	n/a	n/a	n/a	n/a	0.0103	n/a	c
S09V001311		A	7440-62-2	Vanadium	ug/g	104	<4.80E-04	62.4	n/a	n/a	n/a	n/a	0.821	n/a	c
S09V001311		A	7440-02-0	Nickel	ug/g	103	<1.20E-03	12.5	n/a	n/a	n/a	n/a	0.205	n/a	
S09V001342		W	16984-48-8	Fluoride	ug/g	106	<0.0805	1.69	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001342		W	666-14-8	Glycolate	ug/g	106	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001342		W	71-50-1	Acetate	ug/g	110	<0.302	0.424	n/a	n/a	n/a	n/a	0.0755	n/a	J
S09V001342		W	12311-97-6	Formate	ug/g	108	<0.234	0.414	n/a	n/a	n/a	n/a	0.0583	n/a	J
S09V001342		W	16887-00-6	Chloride	ug/g	104	<0.499	0.636	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001342		W	14797-65-0	Nitrite	ug/g	106	<0.960	2.60	n/a	n/a	n/a	n/a	0.240	n/a	c
S09V001342		W	14808-79-8	Sulfate	ug/g	107	<0.935	22.0	n/a	n/a	n/a	n/a	0.234	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD2
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001342		W	338-70-5	Oxalate	ug/g	105	<1.16	0.382	n/a	n/a	n/a	n/a	0.289	n/a	J
S09V001342		W	14797-55-8	Nitrate	ug/g	104	<1.04	4.89	n/a	n/a	n/a	n/a	0.260	n/a	
S09V001342		W	14265-44-2	Phosphate	ug/g	105	<0.835	0.392	n/a	n/a	n/a	n/a	0.209	n/a	J
S09V001571		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	4.30E-05	n/a	n/a	n/a	n/a	2.65E-05	n/a	J
S09V001571		A	TH-232	Thorium-232	ug/g	96.8	<3.40E-06	3.02	n/a	n/a	n/a	n/a	6.45E-04	n/a	
S09V001571		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	2.36E-04	n/a	n/a	n/a	n/a	3.79E-05	n/a	J
S09V001571		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	2.39E-05	n/a	n/a	n/a	n/a	1.90E-05	n/a	J
S09V001571		A	15117-96-1	Uranium-235	ug/g	90.7	<2.20E-07	5.95E-03	n/a	n/a	n/a	n/a	4.17E-05	n/a	
S09V001571		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	8.17E-05	n/a	n/a	n/a	n/a	1.52E-05	n/a	J
S09V001571		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<2.01E-04	n/a	n/a	n/a	n/a	2.01E-04	n/a	U
S09V001571		A	U-238	Uranium-238	ug/g	97.4	<1.10E-05	0.907	n/a	n/a	n/a	n/a	2.09E-03	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD3
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000539			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.135	n/a	n/a	n/a	n/a	0.135	n/a	U
S09V000539			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.257	n/a	n/a	n/a	n/a	0.257	n/a	U
S09V000539			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.338	n/a	n/a	n/a	n/a	0.338	n/a	U
S09V000539			75-35-4	1,1-Dichloroethene	ug/kg	85.1	<0.340	<0.230	n/a	n/a	n/a	n/a	0.230	n/a	U
S09V000539			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S09V000539			71-36-3	1-Butanol	ug/kg	92.4	<15.5	<10.5	n/a	n/a	n/a	n/a	10.5	n/a	U
S09V000539			108-10-1	Hexone	ug/kg	95.2	<1.76	<1.19	n/a	n/a	n/a	n/a	1.19	n/a	U
S09V000539			67-64-1	Acetone	ug/kg	97.7	<4.38	<2.96	n/a	n/a	n/a	n/a	2.96	n/a	U
S09V000539			71-43-2	Benzene	ug/kg	85.0	<0.320	<0.216	n/a	n/a	n/a	n/a	0.216	n/a	U
S09V000539			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.203	n/a	n/a	n/a	n/a	0.203	n/a	U
S09V000539			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.203	n/a	n/a	n/a	n/a	0.203	n/a	U
S09V000539			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S09V000539			108-90-7	Chlorobenzene	ug/kg	88.6	<0.220	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V000539			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.162	n/a	n/a	n/a	n/a	0.162	n/a	U
S09V000539			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.419	n/a	n/a	n/a	n/a	0.419	n/a	U
S09V000539			78-93-3	2-Butanone	ug/kg	93.5	<2.66	<1.80	n/a	n/a	n/a	n/a	1.80	n/a	U
S09V000539			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	2.61	n/a	n/a	n/a	n/a	0.230	n/a	
S09V000539			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.270	n/a	n/a	n/a	n/a	0.270	n/a	U
S09V000539			108-88-3	Toluene	ug/kg	87.9	<0.240	<0.162	n/a	n/a	n/a	n/a	0.162	n/a	U
S09V000539			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.0946	n/a	n/a	n/a	n/a	0.0946	n/a	U
S09V000539			79-01-6	Trichloroethene	ug/kg	86.0	<0.300	<0.203	n/a	n/a	n/a	n/a	0.203	n/a	U
S09V000539			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.432	n/a	n/a	n/a	n/a	0.432	n/a	U
S09V000539			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.176	n/a	n/a	n/a	n/a	0.176	n/a	U
S09V000539			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.243	n/a	n/a	n/a	n/a	0.243	n/a	U
S09V000539			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.338	n/a	n/a	n/a	n/a	0.338	n/a	U
S09V000539			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.07	n/a	n/a	n/a	n/a	1.07	n/a	U
S09V000539			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.657	n/a	n/a	n/a	n/a	0.657	n/a	U
S09V000539			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.598	n/a	n/a	n/a	n/a	0.598	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD3
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000539			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.31	n/a	n/a	n/a	n/a	1.31	n/a	U
S09V000539			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.135	n/a	n/a	n/a	n/a	0.135	n/a	U
S09V000539			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.284	n/a	n/a	n/a	n/a	0.284	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD5
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000545			%WATERA	%WATER-APD	%	n/a	n/a	5.486	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000545			57-12-5	Cyanide	ug/g	109	<0.0370	<4.77	<4.74	n/a	n/a	87.6	4.77	n/a	U
S09V000545			7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0106	n/a	n/a	n/a	108	0.0106	n/a	U
S09V000545			PH	pH	unitless	n/a	n/a	9.20	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000545			18496-25-8	Sulfide	ug/g	98.2	<0.180	28.8	24.8	26.8	15.1	94.4	7.38	n/a	J
S09V000547			10198-40-0	Cobalt-60	uCi/g	99.1	<3.66E-07	<4.30E-07	n/a	n/a	n/a	n/a	4.30E-07	n/a	U
S09V000547			14234-35-6	Antimony-125	uCi/g	n/a	<8.57E-07	<1.00E-06	n/a	n/a	n/a	n/a	1.00E-06	n/a	U
S09V000547			10045-97-3	Cesium-137	uCi/g	104	<5.59E-07	<5.22E-07	n/a	n/a	n/a	n/a	5.22E-07	n/a	U
S09V000547			14683-23-9	Europium-152	uCi/g	n/a	<1.70E-06	<1.91E-06	n/a	n/a	n/a	n/a	1.91E-06	n/a	U
S09V000547			15585-10-1	Europium-154	uCi/g	n/a	<1.19E-06	<1.21E-06	n/a	n/a	n/a	n/a	1.21E-06	n/a	U
S09V000547			14391-16-3	Europium-155	uCi/g	n/a	<9.66E-07	<1.05E-06	n/a	n/a	n/a	n/a	1.05E-06	n/a	U
S09V000547			15046-84-1	Iodine-129	uCi/g	86.7	<4.40E-07	<1.49E-07	n/a	n/a	n/a	n/a	1.49E-07	n/a	U
S09V000548		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	57.5	<77.4	<71.9	n/a	n/a	n/a	59.8	71.9	n/a	U
S09V000548		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<93.6	n/a	n/a	n/a	n/a	93.6	n/a	U
S09V000548		O	106-46-7	1,4-Dichlorobenzene	ug/kg	54.8	<113	<105	n/a	n/a	n/a	52.5	105	n/a	U
S09V000548		O	121-14-2	2,4-Dinitrotoluene	ug/kg	66.9	<38.1	<35.4	n/a	n/a	n/a	71.5	35.4	n/a	U
S09V000548		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<40.9	n/a	n/a	n/a	n/a	40.9	n/a	U
S09V000548		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<46.0	n/a	n/a	n/a	n/a	46.0	n/a	U
S09V000548		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<53.4	n/a	n/a	n/a	n/a	53.4	n/a	U
S09V000548		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<49.9	n/a	n/a	n/a	n/a	49.9	n/a	U
S09V000548		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<47.8	n/a	n/a	n/a	n/a	47.8	n/a	U
S09V000548		O	83-32-9	Acenaphthene	ug/kg	63.8	<17.6	<16.4	n/a	n/a	n/a	67.6	16.4	n/a	U
S09V000548		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<35.1	n/a	n/a	n/a	n/a	35.1	n/a	U
S09V000548		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<45.5	n/a	n/a	n/a	n/a	45.5	n/a	U
S09V000548		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<38.3	n/a	n/a	n/a	n/a	38.3	n/a	U
S09V000548		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<549	n/a	n/a	n/a	n/a	549	n/a	U
S09V000548		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<36.3	n/a	n/a	n/a	n/a	36.3	n/a	U
S09V000548		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<46.5	n/a	n/a	n/a	n/a	46.5	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD5
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000548		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.4	<43.2	<40.2	n/a	n/a	n/a	69.6	40.2	n/a	U
S09V000548		O	95-57-8	2-Chlorophenol	ug/kg	57.7	<66.5	<61.8	n/a	n/a	n/a	62.0	61.8	n/a	U
S09V000548		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<75.7	n/a	n/a	n/a	n/a	75.7	n/a	U
S09V000548		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<47.5	n/a	n/a	n/a	n/a	47.5	n/a	U
S09V000548		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<523	n/a	n/a	n/a	n/a	523	n/a	U
S09V000548		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<44.3	n/a	n/a	n/a	n/a	44.3	n/a	U
S09V000548		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	52.0	<58.1	<54.0	n/a	n/a	n/a	59.3	54.0	n/a	U
S09V000548		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<32.9	n/a	n/a	n/a	n/a	32.9	n/a	U
S09V000548		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	U
S09V000548		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V000548		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U
S09V000548		O	108-95-2	Phenol	ug/kg	57.9	<59.4	<55.2	n/a	n/a	n/a	63.5	55.2	n/a	U
S09V000548		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<58.2	n/a	n/a	n/a	n/a	58.2	n/a	U
S09V000548		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<60.0	n/a	n/a	n/a	n/a	60.0	n/a	U
S09V000548		O	100-02-7	4-Nitrophenol	ug/kg	71.5	<52.6	<48.9	n/a	n/a	n/a	79.4	48.9	n/a	U
S09V000548		O	87-86-5	Pentachlorophenol	ug/kg	72.9	<37.5	<34.9	n/a	n/a	n/a	82.2	34.9	n/a	U
S09V000548		O	129-00-0	Pyrene	ug/kg	73.0	<62.9	<58.5	n/a	n/a	n/a	80.3	58.5	n/a	U
S09V000548		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<60.4	n/a	n/a	n/a	n/a	60.4	n/a	U
S09V000548		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<100	n/a	n/a	n/a	n/a	100	n/a	U
S09V000548		O	128-37-0	BHT	ug/kg	n/a	<236	<219	n/a	n/a	n/a	n/a	219	n/a	U
S09V000548		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<170	n/a	n/a	n/a	n/a	170	n/a	U
S09V000548		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<99.1	n/a	n/a	n/a	n/a	99.1	n/a	U
S09V000548		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<520	n/a	n/a	n/a	n/a	520	n/a	U
S09V000548		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<178	n/a	n/a	n/a	n/a	178	n/a	U
S09V000548		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<428	n/a	n/a	n/a	n/a	428	n/a	U
S09V000549		W	14762-75-5	Carbon-14	uCi/g	95.2	<5.15E-05	<4.79E-05	<6.56E-05	n/a	n/a	98.2	4.79E-05	n/a	U
S09V000549		W	10028-17-8	Tritium	uCi/g	94.1	<4.23E-04	<3.23E-04	<2.70E-04	n/a	n/a	93.9	3.23E-04	n/a	U
S09V000551		S	14798-03-9	Ammonium	ug/g	98.4	0.0406	<0.470	n/a	n/a	n/a	n/a	0.470	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD5
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000552		A	14133-76-7	Technetium-99	ug/g	103	<6.00E-06	<1.05E-03	<1.04E-03	n/a	n/a	99.2	1.05E-03	n/a	U
S09V000552		A	SN-117	Tin-117	ug/g	105	<2.20E-04	<0.0386	<0.0383	n/a	n/a	93.6	0.0386	n/a	U
S09V000552		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.02E-04	<6.96E-04	n/a	n/a	n/a	7.02E-04	n/a	U
S09V000553		E	CM-243/244	Curium-243/244	uCi/g	n/a	<8.04E-07	<3.41E-07	n/a	n/a	n/a	n/a	3.41E-07	n/a	U
S09V000553		E	14596-10-2	Americium-241	uCi/g	97.6	<2.01E-06	<8.52E-07	n/a	n/a	n/a	n/a	8.52E-07	n/a	
S09V000553		E	15510-73-3	Curium-242	uCi/g	n/a	<8.04E-07	<3.41E-07	n/a	n/a	n/a	n/a	3.41E-07	n/a	U
S09V000553		E	13981-37-8	Nickel-63	uCi/g	110	2.04E-04	<1.06E-04	n/a	n/a	n/a	n/a	1.06E-04	n/a	U
S09V000553		E	PU-239/240	Plutonium-239/240	uCi/g	96.6	<1.59E-06	<6.91E-07	n/a	n/a	n/a	n/a	6.91E-07	n/a	U
S09V000553		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.59E-06	<6.91E-07	n/a	n/a	n/a	n/a	6.91E-07	n/a	U
S09V000553		E	15758-45-9	Selenium-79	uCi/g	n/a	4.58E-06	2.05E-06	n/a	n/a	n/a	n/a	1.56E-06	892.93	BJ
S09V000553		E	SR-89/90	Strontium-89/90	uCi/g	100	5.69E-06	<3.43E-06	n/a	n/a	n/a	n/a	3.43E-06	n/a	U
S09V001312		A	7429-90-5	Aluminum	ug/g	90.7	<0.0300	5.65E+03	n/a	n/a	n/a	n/a	5.48	n/a	c
S09V001312		A	7440-39-3	Barium	ug/g	95.2	<3.00E-03	79.9	n/a	n/a	n/a	n/a	0.548	n/a	
S09V001312		A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.183	n/a	n/a	n/a	n/a	0.183	n/a	U
S09V001312		A	7440-70-2	Calcium	ug/g	85.6	<0.0500	7.67E+03	n/a	n/a	n/a	n/a	9.13	n/a	c
S09V001312		A	7440-45-1	Cerium	ug/g	106	<0.0300	24.3	n/a	n/a	n/a	n/a	5.48	n/a	Jb
S09V001312		A	7440-48-4	Cobalt	ug/g	91.7	<0.0100	9.90	n/a	n/a	n/a	n/a	1.83	n/a	J
S09V001312		A	7440-47-3	Chromium	ug/g	93.1	<5.00E-03	21.8	n/a	n/a	n/a	n/a	0.913	n/a	
S09V001312		A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	12.8	n/a	n/a	n/a	n/a	0.913	n/a	c
S09V001312		A	7440-53-1	Europium	ug/g	94.7	<5.00E-03	1.83	n/a	n/a	n/a	n/a	0.913	n/a	J
S09V001312		A	7439-89-6	Iron	ug/g	92.2	<5.00E-03	3.05E+04	n/a	n/a	n/a	n/a	0.913	n/a	c
S09V001312		A	7440-09-7	Potassium	ug/g	86.0	<0.500	751	n/a	n/a	n/a	n/a	91.3	n/a	Jb
S09V001312		A	7439-91-0	Lanthanum	ug/g	95.0	<3.00E-03	11.6	n/a	n/a	n/a	n/a	0.548	n/a	
S09V001312		A	7439-93-2	Lithium	ug/g	92.1	<3.00E-03	4.19	n/a	n/a	n/a	n/a	0.548	n/a	J
S09V001312		A	7439-95-4	Magnesium	ug/g	89.1	<0.0500	3.62E+03	n/a	n/a	n/a	n/a	9.13	n/a	c
S09V001312		A	7439-96-5	Manganese	ug/g	90.5	<3.00E-03	356	n/a	n/a	n/a	n/a	0.548	n/a	c
S09V001312		A	7439-98-7	Molybdenum	ug/g	89.2	<0.0200	<3.65	n/a	n/a	n/a	n/a	3.65	n/a	U
S09V001312		A	7440-23-5	Sodium	ug/g	90.0	<0.100	429	n/a	n/a	n/a	n/a	18.3	n/a	bc

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD5
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001312		A	7440-00-8	Neodymium	ug/g	97.8	<0.0100	33.0	n/a	n/a	n/a	n/a	1.83	n/a	c
S09V001312		A	7723-14-0	Phosphorus	ug/g	89.3	<0.0500	993	n/a	n/a	n/a	n/a	9.13	n/a	bc
S09V001312		A	7440-10-0	Praseodymium	ug/g	101	<0.0100	2.37	n/a	n/a	n/a	n/a	1.83	n/a	BJ
S09V001312		A	7704-34-9	Sulfur	ug/g	91.1	<0.100	72.2	n/a	n/a	n/a	n/a	18.3	n/a	J
S09V001312		A	7440-21-3	Silicon	ug/g	66.2	<0.0300	682	n/a	n/a	n/a	n/a	5.48	n/a	a
S09V001312		A	7440-31-5	Tin	ug/g	87.0	<0.0300	14.4	n/a	n/a	n/a	n/a	5.48	n/a	J
S09V001312		A	7440-24-6	Strontium	ug/g	95.7	<3.00E-03	27.4	n/a	n/a	n/a	n/a	0.548	n/a	c
S09V001312		A	7440-32-6	Titanium	ug/g	91.0	<5.00E-03	3.41E+03	n/a	n/a	n/a	n/a	0.913	n/a	c
S09V001312		A	7440-61-1	Uranium	ug/g	105	<0.100	<18.3	n/a	n/a	n/a	n/a	18.3	n/a	U
S09V001312		A	7440-33-7	Tungsten	ug/g	54.4	<0.200	43.1	n/a	n/a	n/a	n/a	36.5	n/a	Jab
S09V001312		A	7440-65-5	Yttrium	ug/g	93.1	<2.00E-03	12.9	n/a	n/a	n/a	n/a	0.365	n/a	c
S09V001312		A	7440-66-6	Zinc	ug/g	89.1	<5.00E-03	44.0	n/a	n/a	n/a	n/a	0.913	n/a	c
S09V001312		A	7440-67-7	Zirconium	ug/g	90.6	<5.00E-03	30.7	n/a	n/a	n/a	n/a	0.913	n/a	
S09V001312		A	7440-22-4	Silver	ug/g	107	<8.00E-04	<0.146	n/a	n/a	n/a	n/a	0.146	n/a	U
S09V001312		A	7440-38-2	Arsenic	ug/g	105	<8.40E-04	1.79	n/a	n/a	n/a	n/a	0.153	n/a	
S09V001312		A	7440-43-9	Cadmium	ug/g	97.0	<6.00E-05	0.0768	n/a	n/a	n/a	n/a	0.0110	n/a	J
S09V001312		A	7439-92-1	Lead	ug/g	105	<6.20E-04	2.93	n/a	n/a	n/a	n/a	0.113	n/a	c
S09V001312		A	7440-36-0	Antimony	ug/g	100	<8.80E-04	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V001312		A	7782-49-2	Selenium	ug/g	103	2.52E-03	<0.223	n/a	n/a	n/a	n/a	0.223	n/a	U
S09V001312		A	7440-28-0	Thallium	ug/g	104	<6.00E-05	0.0746	n/a	n/a	n/a	n/a	0.0110	n/a	Jc
S09V001312		A	7440-62-2	Vanadium	ug/g	104	<4.80E-04	110	n/a	n/a	n/a	n/a	0.877	n/a	c
S09V001312		A	7440-02-0	Nickel	ug/g	103	<1.20E-03	13.9	n/a	n/a	n/a	n/a	0.219	n/a	
S09V001343		W	16984-48-8	Fluoride	ug/g	106	<0.0805	1.41	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001343		W	666-14-8	Glycolate	ug/g	106	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001343		W	71-50-1	Acetate	ug/g	110	<0.302	0.445	n/a	n/a	n/a	n/a	0.0755	n/a	J
S09V001343		W	12311-97-6	Formate	ug/g	108	<0.234	0.425	n/a	n/a	n/a	n/a	0.0584	n/a	J
S09V001343		W	16887-00-6	Chloride	ug/g	104	<0.499	0.520	n/a	n/a	n/a	n/a	0.125	n/a	J
S09V001343		W	14797-65-0	Nitrite	ug/g	106	<0.960	3.42	n/a	n/a	n/a	n/a	0.240	n/a	c

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD5
Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001343	W	14808-79-8	Sulfate	ug/g	107	<0.935	12.6	n/a	n/a	n/a	n/a	0.234	n/a	
S09V001343	W	338-70-5	Oxalate	ug/g	105	<1.16	0.567	n/a	n/a	n/a	n/a	0.289	n/a	J
S09V001343	W	14797-55-8	Nitrate	ug/g	104	<1.04	5.49	n/a	n/a	n/a	n/a	0.260	n/a	
S09V001343	W	14265-44-2	Phosphate	ug/g	105	<0.835	1.30	n/a	n/a	n/a	n/a	0.209	n/a	J
S09V001572	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.64E-05	n/a	n/a	n/a	n/a	2.64E-05	n/a	U
S09V001572	A	TH-232	Thorium-232	ug/g	96.8	<3.40E-06	2.07	n/a	n/a	n/a	n/a	6.42E-04	n/a	
S09V001572	A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.37E-04	n/a	n/a	n/a	n/a	3.77E-05	n/a	J
S09V001572	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	4.79E-05	n/a	n/a	n/a	n/a	1.89E-05	n/a	J
S09V001572	A	15117-96-1	Uranium-235	ug/g	90.7	<2.20E-07	4.46E-03	n/a	n/a	n/a	n/a	4.15E-05	n/a	
S09V001572	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	4.92E-05	n/a	n/a	n/a	n/a	1.51E-05	n/a	J
S09V001572	A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<2.00E-04	n/a	n/a	n/a	n/a	2.00E-04	n/a	U
S09V001572	A	U-238	Uranium-238	ug/g	97.4	<1.10E-05	0.693	n/a	n/a	n/a	n/a	2.08E-03	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD6
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000555			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V000555			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.284	n/a	n/a	n/a	n/a	0.284	n/a	U
S09V000555			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.373	n/a	n/a	n/a	n/a	0.373	n/a	U
S09V000555			75-35-4	1,1-Dichloroethene	ug/kg	85.1	<0.340	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000555			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.134	n/a	n/a	n/a	n/a	0.134	n/a	U
S09V000555			71-36-3	1-Butanol	ug/kg	92.4	<15.5	<11.6	n/a	n/a	n/a	n/a	11.6	n/a	U
S09V000555			108-10-1	Hexone	ug/kg	95.2	<1.76	<1.31	n/a	n/a	n/a	n/a	1.31	n/a	U
S09V000555			67-64-1	Acetone	ug/kg	97.7	<4.38	4.36	n/a	n/a	n/a	n/a	3.27	n/a	J
S09V000555			71-43-2	Benzene	ug/kg	85.0	<0.320	<0.239	n/a	n/a	n/a	n/a	0.239	n/a	U
S09V000555			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	0.261	n/a	n/a	n/a	n/a	0.224	n/a	J
S09V000555			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S09V000555			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.134	n/a	n/a	n/a	n/a	0.134	n/a	U
S09V000555			108-90-7	Chlorobenzene	ug/kg	88.6	<0.220	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V000555			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V000555			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.463	n/a	n/a	n/a	n/a	0.463	n/a	U
S09V000555			78-93-3	2-Butanone	ug/kg	93.5	<2.66	<1.99	n/a	n/a	n/a	n/a	1.99	n/a	U
S09V000555			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	0.705	n/a	n/a	n/a	n/a	0.254	n/a	J
S09V000555			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.299	n/a	n/a	n/a	n/a	0.299	n/a	U
S09V000555			108-88-3	Toluene	ug/kg	87.9	<0.240	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V000555			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S09V000555			79-01-6	Trichloroethene	ug/kg	86.0	<0.300	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S09V000555			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.478	n/a	n/a	n/a	n/a	0.478	n/a	U
S09V000555			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V000555			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.269	n/a	n/a	n/a	n/a	0.269	n/a	U
S09V000555			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.373	n/a	n/a	n/a	n/a	0.373	n/a	U
S09V000555			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.18	n/a	n/a	n/a	n/a	1.18	n/a	U
S09V000555			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.725	n/a	n/a	n/a	n/a	0.725	n/a	U
S09V000555			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.660	n/a	n/a	n/a	n/a	0.660	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD6
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000555			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.45	n/a	n/a	n/a	n/a	1.45	n/a	U
S09V000555			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V000555			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.313	n/a	n/a	n/a	n/a	0.313	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD8
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000561			%WATERA	%WATER-APD	%	n/a	n/a	9.020	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000561			57-12-5	Cyanide	ug/g	109	<0.0370	<4.08	n/a	n/a	n/a	n/a	4.08	n/a	U
S09V000561			7439-97-6	Mercury	ug/g	108	<1.00E-04	<0.0105	n/a	n/a	n/a	n/a	0.0105	n/a	U
S09V000561			PH	pH	unitless	n/a	n/a	9.04	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000561			18496-25-8	Sulfide	ug/g	98.2	<0.180	20.7	n/a	n/a	n/a	n/a	7.58	n/a	J
S09V000563			10198-40-0	Cobalt-60	uCi/g	99.1	<3.66E-07	<4.65E-07	n/a	n/a	n/a	n/a	4.65E-07	n/a	U
S09V000563			14234-35-6	Antimony-125	uCi/g	n/a	<8.57E-07	<1.11E-06	n/a	n/a	n/a	n/a	1.11E-06	n/a	U
S09V000563			10045-97-3	Cesium-137	uCi/g	104	<5.59E-07	<5.93E-07	n/a	n/a	n/a	n/a	5.93E-07	n/a	U
S09V000563			14683-23-9	Europium-152	uCi/g	n/a	<1.70E-06	<2.00E-06	n/a	n/a	n/a	n/a	2.00E-06	n/a	U
S09V000563			15585-10-1	Europium-154	uCi/g	n/a	<1.19E-06	<1.36E-06	n/a	n/a	n/a	n/a	1.36E-06	n/a	U
S09V000563			14391-16-3	Europium-155	uCi/g	n/a	<9.66E-07	<1.05E-06	n/a	n/a	n/a	n/a	1.05E-06	n/a	U
S09V000563			15046-84-1	Iodine-129	uCi/g	86.7	<4.40E-07	<1.51E-07	n/a	n/a	n/a	n/a	1.51E-07	n/a	U
S09V000564		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	57.5	<77.4	<74.7	n/a	n/a	n/a	n/a	74.7	n/a	U
S09V000564		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<97.2	n/a	n/a	n/a	n/a	97.2	n/a	U
S09V000564		O	106-46-7	1,4-Dichlorobenzene	ug/kg	54.8	<113	<109	n/a	n/a	n/a	n/a	109	n/a	U
S09V000564		O	121-14-2	2,4-Dinitrotoluene	ug/kg	66.9	<38.1	<36.8	n/a	n/a	n/a	n/a	36.8	n/a	U
S09V000564		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<42.5	n/a	n/a	n/a	n/a	42.5	n/a	U
S09V000564		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<47.8	n/a	n/a	n/a	n/a	47.8	n/a	U
S09V000564		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<55.5	n/a	n/a	n/a	n/a	55.5	n/a	U
S09V000564		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<51.9	n/a	n/a	n/a	n/a	51.9	n/a	U
S09V000564		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<49.6	n/a	n/a	n/a	n/a	49.6	n/a	U
S09V000564		O	83-32-9	Acenaphthene	ug/kg	63.8	<17.6	<17.0	n/a	n/a	n/a	n/a	17.0	n/a	U
S09V000564		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<36.5	n/a	n/a	n/a	n/a	36.5	n/a	U
S09V000564		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<47.2	n/a	n/a	n/a	n/a	47.2	n/a	U
S09V000564		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.8	n/a	n/a	n/a	n/a	39.8	n/a	U
S09V000564		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<570	n/a	n/a	n/a	n/a	570	n/a	U
S09V000564		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S09V000564		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<48.3	n/a	n/a	n/a	n/a	48.3	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD8
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000564		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.4	<43.2	<41.7	n/a	n/a	n/a	n/a	41.7	n/a	U
S09V000564		O	95-57-8	2-Chlorophenol	ug/kg	57.7	<66.5	<64.2	n/a	n/a	n/a	n/a	64.2	n/a	U
S09V000564		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<78.6	n/a	n/a	n/a	n/a	78.6	n/a	U
S09V000564		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<49.3	n/a	n/a	n/a	n/a	49.3	n/a	U
S09V000564		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<543	n/a	n/a	n/a	n/a	543	n/a	U
S09V000564		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<46.1	n/a	n/a	n/a	n/a	46.1	n/a	U
S09V000564		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	52.0	<58.1	<56.1	n/a	n/a	n/a	n/a	56.1	n/a	U
S09V000564		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<34.2	n/a	n/a	n/a	n/a	34.2	n/a	U
S09V000564		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<67.3	n/a	n/a	n/a	n/a	67.3	n/a	U
S09V000564		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V000564		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<49.2	n/a	n/a	n/a	n/a	49.2	n/a	U
S09V000564		O	108-95-2	Phenol	ug/kg	57.9	<59.4	<57.4	n/a	n/a	n/a	n/a	57.4	n/a	U
S09V000564		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<60.4	n/a	n/a	n/a	n/a	60.4	n/a	U
S09V000564		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<62.4	n/a	n/a	n/a	n/a	62.4	n/a	U
S09V000564		O	100-02-7	4-Nitrophenol	ug/kg	71.5	<52.6	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S09V000564		O	87-86-5	Pentachlorophenol	ug/kg	72.9	<37.5	<36.2	n/a	n/a	n/a	n/a	36.2	n/a	U
S09V000564		O	129-00-0	Pyrene	ug/kg	73.0	<62.9	<60.7	n/a	n/a	n/a	n/a	60.7	n/a	U
S09V000564		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S09V000564		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<104	n/a	n/a	n/a	n/a	104	n/a	U
S09V000564		O	128-37-0	BHT	ug/kg	n/a	<236	<228	n/a	n/a	n/a	n/a	228	n/a	U
S09V000564		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<176	n/a	n/a	n/a	n/a	176	n/a	U
S09V000564		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<103	n/a	n/a	n/a	n/a	103	n/a	U
S09V000564		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<540	n/a	n/a	n/a	n/a	540	n/a	U
S09V000564		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<185	n/a	n/a	n/a	n/a	185	n/a	U
S09V000564		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<444	n/a	n/a	n/a	n/a	444	n/a	U
S09V000565		W	14762-75-5	Carbon-14	uCi/g	95.2	<5.15E-05	<5.78E-05	n/a	n/a	n/a	n/a	5.78E-05	n/a	U
S09V000565		W	10028-17-8	Tritium	uCi/g	94.1	<4.23E-04	<2.75E-04	n/a	n/a	n/a	n/a	2.75E-04	n/a	U
S09V000567		S	14798-03-9	Ammonium	ug/g	98.4	0.0406	<0.474	n/a	n/a	n/a	n/a	0.474	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD8
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000568		A	14133-76-7	Technetium-99	ug/g	103	<6.00E-06	<1.13E-03	n/a	n/a	n/a	n/a	1.13E-03	n/a	U
S09V000568		A	SN-117	Tin-117	ug/g	105	<2.20E-04	<0.0415	n/a	n/a	n/a	n/a	0.0415	n/a	U
S09V000568		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.54E-04	n/a	n/a	n/a	n/a	7.54E-04	n/a	U
S09V000569		E	CM-243/244	Curium-243/244	uCi/g	n/a	<8.04E-07	<3.60E-07	n/a	n/a	n/a	n/a	3.60E-07	n/a	U
S09V000569		E	14596-10-2	Americium-241	uCi/g	97.6	<2.01E-06	<8.99E-07	n/a	n/a	n/a	n/a	8.99E-07	n/a	
S09V000569		E	15510-73-3	Curium-242	uCi/g	n/a	<8.04E-07	<3.60E-07	n/a	n/a	n/a	n/a	3.60E-07	n/a	U
S09V000569		E	13981-37-8	Nickel-63	uCi/g	110	2.04E-04	<6.66E-05	n/a	n/a	n/a	n/a	6.66E-05	n/a	U
S09V000569		E	PU-239/240	Plutonium-239/240	uCi/g	102	<1.59E-06	<5.22E-07	n/a	n/a	n/a	n/a	5.22E-07	n/a	U
S09V000569		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.59E-06	<5.22E-07	n/a	n/a	n/a	n/a	5.22E-07	n/a	U
S09V000569		E	15758-45-9	Selenium-79	uCi/g	n/a	4.58E-06	2.50E-06	n/a	n/a	n/a	n/a	1.45E-06	199.62	BJ
S09V000569		E	SR-89/90	Strontium-89/90	uCi/g	100	5.69E-06	<3.54E-06	n/a	n/a	n/a	n/a	3.54E-06	n/a	U
S09V001313		A	7429-90-5	Aluminum	ug/g	90.7	<0.0300	6.13E+03	n/a	n/a	n/a	n/a	5.12	n/a	c
S09V001313		A	7440-39-3	Barium	ug/g	95.2	<3.00E-03	99.1	n/a	n/a	n/a	n/a	0.512	n/a	
S09V001313		A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.171	n/a	n/a	n/a	n/a	0.171	n/a	U
S09V001313		A	7440-70-2	Calcium	ug/g	85.6	<0.0500	6.54E+03	n/a	n/a	n/a	n/a	8.53	n/a	c
S09V001313		A	7440-45-1	Cerium	ug/g	106	<0.0300	20.4	n/a	n/a	n/a	n/a	5.12	n/a	Jb
S09V001313		A	7440-48-4	Cobalt	ug/g	91.7	<0.0100	10.5	n/a	n/a	n/a	n/a	1.71	n/a	J
S09V001313		A	7440-47-3	Chromium	ug/g	93.1	<5.00E-03	10.0	n/a	n/a	n/a	n/a	0.853	n/a	
S09V001313		A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	11.4	n/a	n/a	n/a	n/a	0.853	n/a	c
S09V001313		A	7440-53-1	Europium	ug/g	94.7	<5.00E-03	1.68	n/a	n/a	n/a	n/a	0.853	n/a	J
S09V001313		A	7439-89-6	Iron	ug/g	92.2	<5.00E-03	2.61E+04	n/a	n/a	n/a	n/a	0.853	n/a	c
S09V001313		A	7440-09-7	Potassium	ug/g	86.0	<0.500	790	n/a	n/a	n/a	n/a	85.3	n/a	Jb
S09V001313		A	7439-91-0	Lanthanum	ug/g	95.0	<3.00E-03	9.88	n/a	n/a	n/a	n/a	0.512	n/a	
S09V001313		A	7439-93-2	Lithium	ug/g	92.1	<3.00E-03	4.67	n/a	n/a	n/a	n/a	0.512	n/a	J
S09V001313		A	7439-95-4	Magnesium	ug/g	89.1	<0.0500	3.52E+03	n/a	n/a	n/a	n/a	8.53	n/a	c
S09V001313		A	7439-96-5	Manganese	ug/g	90.5	<3.00E-03	412	n/a	n/a	n/a	n/a	0.512	n/a	c
S09V001313		A	7439-98-7	Molybdenum	ug/g	89.2	<0.0200	<3.41	n/a	n/a	n/a	n/a	3.41	n/a	U
S09V001313		A	7440-23-5	Sodium	ug/g	90.0	<0.100	375	n/a	n/a	n/a	n/a	17.1	n/a	bc

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD8
Sample Depth: 19.5-21.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001313		A	7440-00-8	Neodymium	ug/g	97.8	<0.0100	27.3	n/a	n/a	n/a	n/a	1.71	n/a	c
S09V001313		A	7723-14-0	Phosphorus	ug/g	89.3	<0.0500	770	n/a	n/a	n/a	n/a	8.53	n/a	bc
S09V001313		A	7440-10-0	Praseodymium	ug/g	101	<0.0100	3.63	n/a	n/a	n/a	n/a	1.71	n/a	BJ
S09V001313		A	7704-34-9	Sulfur	ug/g	91.1	<0.100	50.9	n/a	n/a	n/a	n/a	17.1	n/a	J
S09V001313		A	7440-21-3	Silicon	ug/g	66.2	<0.0300	621	n/a	n/a	n/a	n/a	5.12	n/a	a
S09V001313		A	7440-31-5	Tin	ug/g	87.0	<0.0300	13.9	n/a	n/a	n/a	n/a	5.12	n/a	J
S09V001313		A	7440-24-6	Strontium	ug/g	95.7	<3.00E-03	26.2	n/a	n/a	n/a	n/a	0.512	n/a	c
S09V001313		A	7440-32-6	Titanium	ug/g	91.0	<5.00E-03	2.70E+03	n/a	n/a	n/a	n/a	0.853	n/a	c
S09V001313		A	7440-61-1	Uranium	ug/g	105	<0.100	<17.1	n/a	n/a	n/a	n/a	17.1	n/a	U
S09V001313		A	7440-65-5	Yttrium	ug/g	93.1	<2.00E-03	10.1	n/a	n/a	n/a	n/a	0.341	n/a	c
S09V001313		A	7440-66-6	Zinc	ug/g	89.1	<5.00E-03	39.8	n/a	n/a	n/a	n/a	0.853	n/a	c
S09V001313		A	7440-67-7	Zirconium	ug/g	90.6	<5.00E-03	24.8	n/a	n/a	n/a	n/a	0.853	n/a	
S09V001313		A	7440-22-4	Silver	ug/g	107	<8.00E-04	<0.136	n/a	n/a	n/a	n/a	0.136	n/a	U
S09V001313		A	7440-38-2	Arsenic	ug/g	105	<8.40E-04	1.73	n/a	n/a	n/a	n/a	0.143	n/a	
S09V001313		A	7440-43-9	Cadmium	ug/g	97.0	<6.00E-05	0.0807	n/a	n/a	n/a	n/a	0.0102	n/a	J
S09V001313		A	7439-92-1	Lead	ug/g	105	<6.20E-04	3.68	n/a	n/a	n/a	n/a	0.106	n/a	c
S09V001313		A	7440-36-0	Antimony	ug/g	100	<8.80E-04	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S09V001313		A	7782-49-2	Selenium	ug/g	103	2.52E-03	<0.208	n/a	n/a	n/a	n/a	0.208	n/a	U
S09V001313		A	7440-28-0	Thallium	ug/g	104	<6.00E-05	0.0918	n/a	n/a	n/a	n/a	0.0102	n/a	Jc
S09V001313		A	7440-62-2	Vanadium	ug/g	104	<4.80E-04	95.1	n/a	n/a	n/a	n/a	0.819	n/a	c
S09V001313		A	7440-02-0	Nickel	ug/g	103	<1.20E-03	9.00	n/a	n/a	n/a	n/a	0.205	n/a	
S09V001344		W	16984-48-8	Fluoride	ug/g	106	<0.0805	1.70	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001344		W	666-14-8	Glycolate	ug/g	106	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001344		W	71-50-1	Acetate	ug/g	110	<0.302	0.714	n/a	n/a	n/a	n/a	0.0754	n/a	J
S09V001344		W	12311-97-6	Formate	ug/g	108	<0.234	0.664	n/a	n/a	n/a	n/a	0.0583	n/a	J
S09V001344		W	16887-00-6	Chloride	ug/g	104	<0.499	0.987	n/a	n/a	n/a	n/a	0.125	n/a	
S09V001344		W	14797-65-0	Nitrite	ug/g	106	<0.960	0.862	n/a	n/a	n/a	n/a	0.240	n/a	Jc
S09V001344		W	14808-79-8	Sulfate	ug/g	107	<0.935	17.2	n/a	n/a	n/a	n/a	0.234	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD8
Sample Depth: 19.5-21.5

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001344	W	338-70-5	Oxalate	ug/g	105	<1.16	0.492	n/a	n/a	n/a	n/a	0.288	n/a	J
S09V001344	W	14797-55-8	Nitrate	ug/g	104	<1.04	4.73	n/a	n/a	n/a	n/a	0.260	n/a	
S09V001344	W	14265-44-2	Phosphate	ug/g	105	<0.835	1.22	n/a	n/a	n/a	n/a	0.209	n/a	J
S09V001573	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.62E-05	n/a	n/a	n/a	n/a	2.62E-05	n/a	U
S09V001573	A	TH-232	Thorium-232	ug/g	96.8	<3.40E-06	2.74	n/a	n/a	n/a	n/a	6.36E-04	n/a	
S09V001573	A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.47E-04	n/a	n/a	n/a	n/a	3.74E-05	n/a	J
S09V001573	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	4.73E-05	n/a	n/a	n/a	n/a	1.87E-05	n/a	J
S09V001573	A	15117-96-1	Uranium-235	ug/g	90.7	<2.20E-07	6.73E-03	n/a	n/a	n/a	n/a	4.11E-05	n/a	
S09V001573	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	5.24E-05	n/a	n/a	n/a	n/a	1.50E-05	n/a	J
S09V001573	A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.98E-04	n/a	n/a	n/a	n/a	1.98E-04	n/a	U
S09V001573	A	U-238	Uranium-238	ug/g	97.4	<1.10E-05	1.04	n/a	n/a	n/a	n/a	2.06E-03	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD9
Sample Depth: 26-28

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000571			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000571			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V000571			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000571			75-35-4	1,1-Dichloroethene	ug/kg	96.4	<0.340	<0.189	n/a	n/a	n/a	n/a	0.189	n/a	U
S09V000571			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000571			71-36-3	1-Butanol	ug/kg	104	<15.5	<8.63	n/a	n/a	n/a	n/a	8.63	n/a	Uc
S09V000571			108-10-1	Hexone	ug/kg	109	<1.76	<0.978	n/a	n/a	n/a	n/a	0.978	n/a	U
S09V000571			67-64-1	Acetone	ug/kg	121	6.05	2.95	n/a	n/a	n/a	n/a	2.43	n/a	BJ
S09V000571			71-43-2	Benzene	ug/kg	97.3	<0.320	<0.178	n/a	n/a	n/a	n/a	0.178	n/a	U
S09V000571			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000571			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000571			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000571			108-90-7	Chlorobenzene	ug/kg	94.4	<0.220	<0.122	n/a	n/a	n/a	n/a	0.122	n/a	U
S09V000571			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V000571			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V000571			78-93-3	2-Butanone	ug/kg	113	<2.66	<1.48	n/a	n/a	n/a	n/a	1.48	n/a	U
S09V000571			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	0.203	n/a	n/a	n/a	n/a	0.189	n/a	J
S09V000571			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V000571			108-88-3	Toluene	ug/kg	94.3	<0.240	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V000571			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V000571			79-01-6	Trichloroethene	ug/kg	98.0	<0.300	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000571			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V000571			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V000571			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000571			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000571			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<0.876	n/a	n/a	n/a	n/a	0.876	n/a	U
S09V000571			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.540	n/a	n/a	n/a	n/a	0.540	n/a	U
S09V000571			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.492	n/a	n/a	n/a	n/a	0.492	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTD9
Sample Depth: 26-28

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000571			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V000571			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000571			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF1
Sample Depth: 26-28

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000577			%WATERA	%WATER-APD	%	n/a	n/a	4.256	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000577			57-12-5	Cyanide	ug/g	109	<0.0370	<3.54	n/a	n/a	n/a	n/a	3.54	n/a	U
S09V000577			7439-97-6	Mercury	ug/g	104	<1.00E-04	<0.0112	n/a	n/a	n/a	n/a	0.0112	n/a	U
S09V000577			PH	pH	unitless	n/a	n/a	9.18	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000577			18496-25-8	Sulfide	ug/g	98.2	<0.180	12.6	n/a	n/a	n/a	n/a	7.25	n/a	J
S09V000579			10198-40-0	Cobalt-60	uCi/g	99.1	<3.66E-07	<3.49E-07	n/a	n/a	n/a	n/a	3.49E-07	n/a	U
S09V000579			14234-35-6	Antimony-125	uCi/g	n/a	<8.57E-07	<9.05E-07	n/a	n/a	n/a	n/a	9.05E-07	n/a	U
S09V000579			10045-97-3	Cesium-137	uCi/g	104	<5.59E-07	<4.93E-07	n/a	n/a	n/a	n/a	4.93E-07	n/a	U
S09V000579			14683-23-9	Europium-152	uCi/g	n/a	<1.70E-06	<1.63E-06	n/a	n/a	n/a	n/a	1.63E-06	n/a	U
S09V000579			15585-10-1	Europium-154	uCi/g	n/a	<1.19E-06	<1.03E-06	n/a	n/a	n/a	n/a	1.03E-06	n/a	U
S09V000579			14391-16-3	Europium-155	uCi/g	n/a	<9.66E-07	<9.13E-07	n/a	n/a	n/a	n/a	9.13E-07	n/a	U
S09V000579			15046-84-1	Iodine-129	uCi/g	86.7	<4.40E-07	<1.52E-07	n/a	n/a	n/a	n/a	1.52E-07	n/a	U
S09V000580		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	57.5	<77.4	<73.4	n/a	n/a	n/a	n/a	73.4	n/a	U
S09V000580		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<95.5	n/a	n/a	n/a	n/a	95.5	n/a	U
S09V000580		O	106-46-7	1,4-Dichlorobenzene	ug/kg	54.8	<113	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000580		O	121-14-2	2,4-Dinitrotoluene	ug/kg	66.9	<38.1	<36.1	n/a	n/a	n/a	n/a	36.1	n/a	U
S09V000580		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<41.7	n/a	n/a	n/a	n/a	41.7	n/a	U
S09V000580		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<46.9	n/a	n/a	n/a	n/a	46.9	n/a	U
S09V000580		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<54.5	n/a	n/a	n/a	n/a	54.5	n/a	U
S09V000580		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S09V000580		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<48.8	n/a	n/a	n/a	n/a	48.8	n/a	U
S09V000580		O	83-32-9	Acenaphthene	ug/kg	63.8	<17.6	<16.7	n/a	n/a	n/a	n/a	16.7	n/a	U
S09V000580		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<35.9	n/a	n/a	n/a	n/a	35.9	n/a	U
S09V000580		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<46.4	n/a	n/a	n/a	n/a	46.4	n/a	U
S09V000580		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<39.1	n/a	n/a	n/a	n/a	39.1	n/a	U
S09V000580		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<560	n/a	n/a	n/a	n/a	560	n/a	U
S09V000580		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S09V000580		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<47.4	n/a	n/a	n/a	n/a	47.4	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF1
Sample Depth: 26-28

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000580		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.4	<43.2	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S09V000580		O	95-57-8	2-Chlorophenol	ug/kg	57.7	<66.5	<63.1	n/a	n/a	n/a	n/a	63.1	n/a	U
S09V000580		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<77.2	n/a	n/a	n/a	n/a	77.2	n/a	U
S09V000580		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<48.5	n/a	n/a	n/a	n/a	48.5	n/a	U
S09V000580		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<533	n/a	n/a	n/a	n/a	533	n/a	U
S09V000580		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<45.2	n/a	n/a	n/a	n/a	45.2	n/a	U
S09V000580		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	52.0	<58.1	<55.1	n/a	n/a	n/a	n/a	55.1	n/a	U
S09V000580		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<33.6	n/a	n/a	n/a	n/a	33.6	n/a	U
S09V000580		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<66.1	n/a	n/a	n/a	n/a	66.1	n/a	U
S09V000580		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<106	n/a	n/a	n/a	n/a	106	n/a	U
S09V000580		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S09V000580		O	108-95-2	Phenol	ug/kg	57.9	<59.4	<56.3	n/a	n/a	n/a	n/a	56.3	n/a	U
S09V000580		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<59.4	n/a	n/a	n/a	n/a	59.4	n/a	U
S09V000580		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<61.3	n/a	n/a	n/a	n/a	61.3	n/a	U
S09V000580		O	100-02-7	4-Nitrophenol	ug/kg	71.5	<52.6	<49.9	n/a	n/a	n/a	n/a	49.9	n/a	U
S09V000580		O	87-86-5	Pentachlorophenol	ug/kg	72.9	<37.5	<35.6	n/a	n/a	n/a	n/a	35.6	n/a	U
S09V000580		O	129-00-0	Pyrene	ug/kg	73.0	<62.9	<59.7	n/a	n/a	n/a	n/a	59.7	n/a	U
S09V000580		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<61.6	n/a	n/a	n/a	n/a	61.6	n/a	U
S09V000580		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<102	n/a	n/a	n/a	n/a	102	n/a	U
S09V000580		O	128-37-0	BHT	ug/kg	n/a	<236	<223	n/a	n/a	n/a	n/a	223	n/a	U
S09V000580		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<173	n/a	n/a	n/a	n/a	173	n/a	U
S09V000580		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<101	n/a	n/a	n/a	n/a	101	n/a	U
S09V000580		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<530	n/a	n/a	n/a	n/a	530	n/a	U
S09V000580		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<181	n/a	n/a	n/a	n/a	181	n/a	U
S09V000580		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<437	n/a	n/a	n/a	n/a	437	n/a	U
S09V000581		W	14762-75-5	Carbon-14	uCi/g	95.2	<5.15E-05	<5.07E-05	n/a	n/a	n/a	n/a	5.07E-05	n/a	U
S09V000581		W	10028-17-8	Tritium	uCi/g	94.1	<4.23E-04	<2.92E-04	n/a	n/a	n/a	n/a	2.92E-04	n/a	U
S09V000583		S	14798-03-9	Ammonium	ug/g	98.4	0.0406	<0.474	n/a	n/a	n/a	n/a	0.474	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF1
Sample Depth: 26-28

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000584		A	14133-76-7	Technetium-99	ug/g	103	<6.00E-06	<1.14E-03	n/a	n/a	n/a	n/a	1.14E-03	n/a	U
S09V000584		A	SN-117	Tin-117	ug/g	105	<2.20E-04	<0.0417	n/a	n/a	n/a	n/a	0.0417	n/a	U
S09V000584		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.58E-04	n/a	n/a	n/a	n/a	7.58E-04	n/a	U
S09V000585		E	CM-243/244	Curium-243/244	uCi/g	n/a	<8.04E-07	<3.92E-07	n/a	n/a	n/a	n/a	3.92E-07	n/a	U
S09V000585		E	14596-10-2	Americium-241	uCi/g	97.6	<2.01E-06	<9.80E-07	n/a	n/a	n/a	n/a	9.80E-07	n/a	
S09V000585		E	15510-73-3	Curium-242	uCi/g	n/a	<8.04E-07	<3.92E-07	n/a	n/a	n/a	n/a	3.92E-07	n/a	U
S09V000585		E	13981-37-8	Nickel-63	uCi/g	110	2.04E-04	8.71E-05	n/a	n/a	n/a	n/a	5.55E-05	158.2	BJ
S09V000585		E	PU-239/240	Plutonium-239/240	uCi/g	96.6	<1.59E-06	<5.84E-07	n/a	n/a	n/a	n/a	5.84E-07	n/a	U
S09V000585		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.59E-06	<5.84E-07	n/a	n/a	n/a	n/a	5.84E-07	n/a	U
S09V000585		E	15758-45-9	Selenium-79	uCi/g	n/a	4.58E-06	2.55E-06	n/a	n/a	n/a	n/a	1.36E-06	172.48	BJ
S09V000585		E	SR-89/90	Strontium-89/90	uCi/g	100	5.69E-06	3.29E-06	n/a	n/a	n/a	n/a	2.46E-06	116.92	BJ
S09V001314		A	7429-90-5	Aluminum	ug/g	90.7	<0.0300	5.13E+03	n/a	n/a	n/a	n/a	5.21	n/a	c
S09V001314		A	7440-39-3	Barium	ug/g	95.2	<3.00E-03	58.7	n/a	n/a	n/a	n/a	0.521	n/a	
S09V001314		A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	<0.174	n/a	n/a	n/a	n/a	0.174	n/a	U
S09V001314		A	7440-70-2	Calcium	ug/g	85.6	<0.0500	5.08E+03	n/a	n/a	n/a	n/a	8.68	n/a	c
S09V001314		A	7440-45-1	Cerium	ug/g	106	<0.0300	14.5	n/a	n/a	n/a	n/a	5.21	n/a	Jb
S09V001314		A	7440-48-4	Cobalt	ug/g	91.7	<0.0100	7.60	n/a	n/a	n/a	n/a	1.74	n/a	J
S09V001314		A	7440-47-3	Chromium	ug/g	93.1	<5.00E-03	13.6	n/a	n/a	n/a	n/a	0.868	n/a	
S09V001314		A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	9.51	n/a	n/a	n/a	n/a	0.868	n/a	c
S09V001314		A	7440-53-1	Europium	ug/g	94.7	<5.00E-03	1.27	n/a	n/a	n/a	n/a	0.868	n/a	J
S09V001314		A	7439-89-6	Iron	ug/g	92.2	<5.00E-03	1.56E+04	n/a	n/a	n/a	n/a	0.868	n/a	c
S09V001314		A	7440-09-7	Potassium	ug/g	86.0	<0.500	785	n/a	n/a	n/a	n/a	86.8	n/a	Jb
S09V001314		A	7439-91-0	Lanthanum	ug/g	95.0	<3.00E-03	7.78	n/a	n/a	n/a	n/a	0.521	n/a	
S09V001314		A	7439-93-2	Lithium	ug/g	92.1	<3.00E-03	6.11	n/a	n/a	n/a	n/a	0.521	n/a	
S09V001314		A	7439-95-4	Magnesium	ug/g	89.1	<0.0500	3.31E+03	n/a	n/a	n/a	n/a	8.68	n/a	c
S09V001314		A	7439-96-5	Manganese	ug/g	90.5	<3.00E-03	255	n/a	n/a	n/a	n/a	0.521	n/a	c
S09V001314		A	7439-98-7	Molybdenum	ug/g	89.2	<0.0200	<3.47	n/a	n/a	n/a	n/a	3.47	n/a	U
S09V001314		A	7440-23-5	Sodium	ug/g	90.0	<0.100	203	n/a	n/a	n/a	n/a	17.4	n/a	bc

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF1
Sample Depth: 26-28

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001314	A	7440-00-8	Neodymium	ug/g	97.8	<0.0100	18.3	n/a	n/a	n/a	n/a	1.74	n/a	c
S09V001314	A	7723-14-0	Phosphorus	ug/g	89.3	<0.0500	593	n/a	n/a	n/a	n/a	8.68	n/a	bc
S09V001314	A	7440-10-0	Praseodymium	ug/g	101	<0.0100	2.38	n/a	n/a	n/a	n/a	1.74	n/a	BJ
S09V001314	A	7704-34-9	Sulfur	ug/g	91.1	<0.100	58.1	n/a	n/a	n/a	n/a	17.4	n/a	J
S09V001314	A	7440-21-3	Silicon	ug/g	66.2	<0.0300	593	n/a	n/a	n/a	n/a	5.21	n/a	a
S09V001314	A	7440-31-5	Tin	ug/g	87.0	<0.0300	8.94	n/a	n/a	n/a	n/a	5.21	n/a	J
S09V001314	A	7440-24-6	Strontium	ug/g	95.7	<3.00E-03	26.9	n/a	n/a	n/a	n/a	0.521	n/a	c
S09V001314	A	7440-32-6	Titanium	ug/g	91.0	<5.00E-03	1.53E+03	n/a	n/a	n/a	n/a	0.868	n/a	c
S09V001314	A	7440-61-1	Uranium	ug/g	105	<0.100	<17.4	n/a	n/a	n/a	n/a	17.4	n/a	U
S09V001314	A	7440-65-5	Yttrium	ug/g	93.1	<2.00E-03	7.19	n/a	n/a	n/a	n/a	0.347	n/a	c
S09V001314	A	7440-66-6	Zinc	ug/g	89.1	<5.00E-03	29.4	n/a	n/a	n/a	n/a	0.868	n/a	c
S09V001314	A	7440-67-7	Zirconium	ug/g	90.6	<5.00E-03	12.9	n/a	n/a	n/a	n/a	0.868	n/a	
S09V001314	A	7440-22-4	Silver	ug/g	107	<8.00E-04	<0.139	n/a	n/a	n/a	n/a	0.139	n/a	U
S09V001314	A	7440-38-2	Arsenic	ug/g	105	<8.40E-04	3.98	n/a	n/a	n/a	n/a	0.146	n/a	
S09V001314	A	7440-43-9	Cadmium	ug/g	97.0	<6.00E-05	0.0625	n/a	n/a	n/a	n/a	0.0104	n/a	J
S09V001314	A	7439-92-1	Lead	ug/g	105	<6.20E-04	3.09	n/a	n/a	n/a	n/a	0.108	n/a	c
S09V001314	A	7440-36-0	Antimony	ug/g	100	<8.80E-04	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S09V001314	A	7782-49-2	Selenium	ug/g	103	2.52E-03	<0.212	n/a	n/a	n/a	n/a	0.212	n/a	U
S09V001314	A	7440-28-0	Thallium	ug/g	104	<6.00E-05	0.0707	n/a	n/a	n/a	n/a	0.0104	n/a	Jc
S09V001314	A	7440-62-2	Vanadium	ug/g	104	<4.80E-04	47.3	n/a	n/a	n/a	n/a	0.833	n/a	c
S09V001314	A	7440-02-0	Nickel	ug/g	103	<1.20E-03	13.3	n/a	n/a	n/a	n/a	0.208	n/a	
S09V001345	W	16984-48-8	Fluoride	ug/g	106	<0.0805	1.24	n/a	n/a	n/a	n/a	0.0199	n/a	
S09V001345	W	666-14-8	Glycolate	ug/g	106	<0.468	<0.116	n/a	n/a	n/a	n/a	0.116	n/a	U
S09V001345	W	71-50-1	Acetate	ug/g	110	<0.302	0.347	n/a	n/a	n/a	n/a	0.0746	n/a	J
S09V001345	W	12311-97-6	Formate	ug/g	108	<0.234	0.330	n/a	n/a	n/a	n/a	0.0577	n/a	J
S09V001345	W	16887-00-6	Chloride	ug/g	104	<0.499	0.875	n/a	n/a	n/a	n/a	0.123	n/a	
S09V001345	W	14797-65-0	Nitrite	ug/g	106	<0.960	2.14	n/a	n/a	n/a	n/a	0.237	n/a	Jc
S09V001345	W	14808-79-8	Sulfate	ug/g	107	<0.935	13.8	n/a	n/a	n/a	n/a	0.231	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF1
Sample Depth: 26-28

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001345		W	338-70-5	Oxalate	ug/g	105	<1.16	0.348	n/a	n/a	n/a	n/a	0.285	n/a	J
S09V001345		W	14797-55-8	Nitrate	ug/g	104	<1.04	4.88	n/a	n/a	n/a	n/a	0.257	n/a	
S09V001345		W	14265-44-2	Phosphate	ug/g	105	<0.835	0.916	n/a	n/a	n/a	n/a	0.206	n/a	J
S09V001574		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.68E-05	n/a	n/a	n/a	n/a	2.68E-05	n/a	U
S09V001574		A	TH-232	Thorium-232	ug/g	96.8	<3.40E-06	1.97	n/a	n/a	n/a	n/a	6.50E-04	n/a	
S09V001574		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.15E-04	n/a	n/a	n/a	n/a	3.83E-05	n/a	J
S09V001574		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	4.13E-05	n/a	n/a	n/a	n/a	1.91E-05	n/a	J
S09V001574		A	15117-96-1	Uranium-235	ug/g	90.7	<2.20E-07	3.36E-03	n/a	n/a	n/a	n/a	4.21E-05	n/a	
S09V001574		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.53E-05	n/a	n/a	n/a	n/a	1.53E-05	n/a	U
S09V001574		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<2.03E-04	n/a	n/a	n/a	n/a	2.03E-04	n/a	U
S09V001574		A	U-238	Uranium-238	ug/g	97.4	<1.10E-05	0.489	n/a	n/a	n/a	n/a	2.10E-03	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF2
Sample Depth: 54.5-56.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000587			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V000587			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.311	n/a	n/a	n/a	n/a	0.311	n/a	U
S09V000587			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.410	n/a	n/a	n/a	n/a	0.410	n/a	U
S09V000587			75-35-4	1,1-Dichloroethene	ug/kg	73.0	<0.340	<0.279	n/a	n/a	n/a	n/a	0.279	n/a	U
S09V000587			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.148	n/a	n/a	n/a	n/a	0.148	n/a	U
S09V000587			71-36-3	1-Butanol	ug/kg	82.6	<15.5	<12.7	n/a	n/a	n/a	n/a	12.7	n/a	U
S09V000587			108-10-1	Hexone	ug/kg	84.1	<1.76	<1.44	n/a	n/a	n/a	n/a	1.44	n/a	U
S09V000587			67-64-1	Acetone	ug/kg	88.5	<4.38	5.43	n/a	n/a	n/a	n/a	3.59	n/a	J
S09V000587			71-43-2	Benzene	ug/kg	78.7	<0.320	<0.262	n/a	n/a	n/a	n/a	0.262	n/a	U
S09V000587			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.246	n/a	n/a	n/a	n/a	0.246	n/a	U
S09V000587			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.246	n/a	n/a	n/a	n/a	0.246	n/a	U
S09V000587			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.148	n/a	n/a	n/a	n/a	0.148	n/a	U
S09V000587			108-90-7	Chlorobenzene	ug/kg	79.8	<0.220	<0.180	n/a	n/a	n/a	n/a	0.180	n/a	U
S09V000587			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.197	n/a	n/a	n/a	n/a	0.197	n/a	U
S09V000587			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.508	n/a	n/a	n/a	n/a	0.508	n/a	U
S09V000587			78-93-3	2-Butanone	ug/kg	87.6	<2.66	<2.18	n/a	n/a	n/a	n/a	2.18	n/a	U
S09V000587			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.279	n/a	n/a	n/a	n/a	0.279	n/a	U
S09V000587			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.328	n/a	n/a	n/a	n/a	0.328	n/a	U
S09V000587			108-88-3	Toluene	ug/kg	77.8	<0.240	<0.197	n/a	n/a	n/a	n/a	0.197	n/a	U
S09V000587			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.115	n/a	n/a	n/a	n/a	0.115	n/a	U
S09V000587			79-01-6	Trichloroethene	ug/kg	81.3	<0.300	<0.246	n/a	n/a	n/a	n/a	0.246	n/a	U
S09V000587			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.525	n/a	n/a	n/a	n/a	0.525	n/a	U
S09V000587			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.213	n/a	n/a	n/a	n/a	0.213	n/a	U
S09V000587			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S09V000587			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.410	n/a	n/a	n/a	n/a	0.410	n/a	U
S09V000587			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.29	n/a	n/a	n/a	n/a	1.29	n/a	U
S09V000587			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.797	n/a	n/a	n/a	n/a	0.797	n/a	U
S09V000587			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.725	n/a	n/a	n/a	n/a	0.725	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF2
Sample Depth: 54.5-56.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000587			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.59	n/a	n/a	n/a	n/a	1.59	n/a	U
S09V000587			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V000587			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF4
Sample Depth: 54.5-56.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000593			%WATERA	%WATER-APD	%	n/a	n/a	5.616	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000593			57-12-5	Cyanide	ug/g	109	<0.0370	<3.74	n/a	n/a	n/a	n/a	3.74	n/a	U
S09V000593			7439-97-6	Mercury	ug/g	107	<1.00E-04	<0.0136	n/a	n/a	n/a	104	0.0136	n/a	U
S09V000593			PH	pH	unitless	n/a	n/a	8.11	8.16	8.135	0.615	n/a	0.0100	n/a	
S09V000593			18496-25-8	Sulfide	ug/g	98.3	<0.180	9.06	7.96	8.51	13.0	88.1	5.65	n/a	J
S09V000595			10198-40-0	Cobalt-60	uCi/g	99.1	<3.66E-07	<4.73E-07	n/a	n/a	n/a	n/a	4.73E-07	n/a	U
S09V000595			14234-35-6	Antimony-125	uCi/g	n/a	<8.57E-07	<1.12E-06	n/a	n/a	n/a	n/a	1.12E-06	n/a	U
S09V000595			10045-97-3	Cesium-137	uCi/g	104	<5.59E-07	<5.87E-07	n/a	n/a	n/a	n/a	5.87E-07	n/a	U
S09V000595			14683-23-9	Europium-152	uCi/g	n/a	<1.70E-06	<1.81E-06	n/a	n/a	n/a	n/a	1.81E-06	n/a	U
S09V000595			15585-10-1	Europium-154	uCi/g	n/a	<1.19E-06	<1.31E-06	n/a	n/a	n/a	n/a	1.31E-06	n/a	U
S09V000595			14391-16-3	Europium-155	uCi/g	n/a	<9.66E-07	<1.08E-06	n/a	n/a	n/a	n/a	1.08E-06	n/a	U
S09V000595			15092-94-1	Lead-212	uCi/g	n/a	n/a	1.17E-06	n/a	n/a	n/a	n/a	8.15E-07	47.22	J
S09V000595			15046-84-1	Iodine-129	uCi/g	86.7	<4.40E-07	<1.47E-07	n/a	n/a	n/a	n/a	1.47E-07	n/a	U
S09V000596		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	80.0	<77.4	<76.6	n/a	n/a	n/a	72.2	76.6	n/a	Ub
S09V000596		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<99.6	n/a	n/a	n/a	n/a	99.6	n/a	U
S09V000596		O	106-46-7	1,4-Dichlorobenzene	ug/kg	78.2	<113	<112	n/a	n/a	n/a	70.3	112	n/a	U
S09V000596		O	121-14-2	2,4-Dinitrotoluene	ug/kg	90.8	<38.1	<37.7	n/a	n/a	n/a	90.6	37.7	n/a	U
S09V000596		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
S09V000596		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.0	n/a	n/a	n/a	n/a	49.0	n/a	U
S09V000596		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<56.9	n/a	n/a	n/a	n/a	56.9	n/a	U
S09V000596		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
S09V000596		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<50.9	n/a	n/a	n/a	n/a	50.9	n/a	U
S09V000596		O	83-32-9	Acenaphthene	ug/kg	85.3	<17.6	<17.4	n/a	n/a	n/a	80.6	17.4	n/a	U
S09V000596		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
S09V000596		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S09V000596		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<40.8	n/a	n/a	n/a	n/a	40.8	n/a	U
S09V000596		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	1.21E+03	n/a	n/a	n/a	n/a	584	n/a	J
S09V000596		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

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF4
Sample Depth: 54.5-56.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000596		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<49.5	n/a	n/a	n/a	n/a	49.5	n/a	U
S09V000596		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	80.4	<43.2	<42.7	n/a	n/a	n/a	78.8	42.7	n/a	U
S09V000596		O	95-57-8	2-Chlorophenol	ug/kg	82.8	<66.5	<65.8	n/a	n/a	n/a	78.2	65.8	n/a	U
S09V000596		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
S09V000596		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<50.6	n/a	n/a	n/a	n/a	50.6	n/a	U
S09V000596		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
S09V000596		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
S09V000596		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	83.2	<58.1	<57.5	n/a	n/a	n/a	78.5	57.5	n/a	U
S09V000596		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
S09V000596		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.0	n/a	n/a	n/a	n/a	69.0	n/a	U
S09V000596		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<111	n/a	n/a	n/a	n/a	111	n/a	U
S09V000596		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<50.5	n/a	n/a	n/a	n/a	50.5	n/a	U
S09V000596		O	108-95-2	Phenol	ug/kg	82.2	<59.4	<58.8	n/a	n/a	n/a	77.9	58.8	n/a	U
S09V000596		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
S09V000596		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
S09V000596		O	100-02-7	4-Nitrophenol	ug/kg	100	<52.6	<52.0	n/a	n/a	n/a	103	52.0	n/a	U
S09V000596		O	87-86-5	Pentachlorophenol	ug/kg	75.1	<37.5	<37.1	n/a	n/a	n/a	77.7	37.1	n/a	U
S09V000596		O	129-00-0	Pyrene	ug/kg	84.3	<62.9	<62.2	n/a	n/a	n/a	80.3	62.2	n/a	U
S09V000596		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
S09V000596		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000596		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S09V000596		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S09V000596		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V000596		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<553	n/a	n/a	n/a	n/a	553	n/a	U
S09V000596		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S09V000596		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
S09V000597		W	14762-75-5	Carbon-14	uCi/g	95.2	<5.15E-05	<5.07E-05	n/a	n/a	n/a	n/a	5.07E-05	n/a	U
S09V000597		W	10028-17-8	Tritium	uCi/g	94.1	<4.23E-04	<2.93E-04	n/a	n/a	n/a	n/a	2.93E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF4
Sample Depth: 54.5-56.5

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000599	S	14798-03-9	Ammonium	ug/g	100	0.0311	<0.475	<0.472	n/a	n/a	95.7	0.475	n/a	U
S09V000600	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-06	<1.09E-03	n/a	n/a	n/a	n/a	1.09E-03	n/a	U
S09V000600	A	SN-117	Tin-117	ug/g	105	<2.20E-04	<0.0401	n/a	n/a	n/a	n/a	0.0401	n/a	U
S09V000600	A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.29E-04	n/a	n/a	n/a	n/a	7.29E-04	n/a	U
S09V000601	E	CM-243/244	Curium-243/244	uCi/g	n/a	<8.04E-07	<4.04E-07	n/a	n/a	n/a	n/a	4.04E-07	n/a	U
S09V000601	E	14596-10-2	Americium-241	uCi/g	97.6	<2.01E-06	<1.01E-06	n/a	n/a	n/a	n/a	1.01E-06	n/a	
S09V000601	E	15510-73-3	Curium-242	uCi/g	n/a	<8.04E-07	<4.04E-07	n/a	n/a	n/a	n/a	4.04E-07	n/a	U
S09V000601	E	13981-37-8	Nickel-63	uCi/g	110	2.04E-04	<4.83E-05	n/a	n/a	n/a	n/a	4.83E-05	n/a	U
S09V000601	E	PU-239/240	Plutonium-239/240	uCi/g	96.6	<1.59E-06	<5.95E-07	n/a	n/a	n/a	n/a	5.95E-07	n/a	U
S09V000601	E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.59E-06	<5.95E-07	n/a	n/a	n/a	n/a	5.95E-07	n/a	U
S09V000601	E	15758-45-9	Selenium-79	uCi/g	n/a	4.58E-06	2.33E-06	n/a	n/a	n/a	n/a	1.33E-06	202.82	BJ
S09V000601	E	SR-89/90	Strontium-89/90	uCi/g	100	5.69E-06	<2.80E-06	n/a	n/a	n/a	n/a	2.80E-06	n/a	U
S09V001315	A	7429-90-5	Aluminum	ug/g	90.7	<0.0300	6.12E+03	n/a	n/a	n/a	n/a	5.10	n/a	c
S09V001315	A	7440-39-3	Barium	ug/g	95.2	<3.00E-03	67.8	n/a	n/a	n/a	n/a	0.510	n/a	
S09V001315	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	0.199	n/a	n/a	n/a	n/a	0.170	n/a	J
S09V001315	A	7440-70-2	Calcium	ug/g	85.6	<0.0500	6.57E+03	n/a	n/a	n/a	n/a	8.50	n/a	c
S09V001315	A	7440-45-1	Cerium	ug/g	106	<0.0300	19.3	n/a	n/a	n/a	n/a	5.10	n/a	Jb
S09V001315	A	7440-48-4	Cobalt	ug/g	91.7	<0.0100	6.23	n/a	n/a	n/a	n/a	1.70	n/a	J
S09V001315	A	7440-47-3	Chromium	ug/g	93.1	<5.00E-03	18.2	n/a	n/a	n/a	n/a	0.850	n/a	
S09V001315	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	7.87	n/a	n/a	n/a	n/a	0.850	n/a	Jc
S09V001315	A	7440-53-1	Europium	ug/g	94.7	<5.00E-03	1.55	n/a	n/a	n/a	n/a	0.850	n/a	J
S09V001315	A	7439-89-6	Iron	ug/g	92.2	<5.00E-03	1.34E+04	n/a	n/a	n/a	n/a	0.850	n/a	c
S09V001315	A	7440-09-7	Potassium	ug/g	86.0	<0.500	1.11E+03	n/a	n/a	n/a	n/a	85.0	n/a	b
S09V001315	A	7439-91-0	Lanthanum	ug/g	95.0	<3.00E-03	11.0	n/a	n/a	n/a	n/a	0.510	n/a	
S09V001315	A	7439-93-2	Lithium	ug/g	92.1	<3.00E-03	9.77	n/a	n/a	n/a	n/a	0.510	n/a	
S09V001315	A	7439-95-4	Magnesium	ug/g	89.1	<0.0500	4.86E+03	n/a	n/a	n/a	n/a	8.50	n/a	c
S09V001315	A	7439-96-5	Manganese	ug/g	90.5	<3.00E-03	296	n/a	n/a	n/a	n/a	0.510	n/a	c
S09V001315	A	7439-98-7	Molybdenum	ug/g	89.2	<0.0200	<3.40	n/a	n/a	n/a	n/a	3.40	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF4
Sample Depth: 54.5-56.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001315		A	7440-23-5	Sodium	ug/g	90.0	<0.100	158	n/a	n/a	n/a	n/a	17.0	n/a	Jbc
S09V001315		A	7440-00-8	Neodymium	ug/g	97.8	<0.0100	14.6	n/a	n/a	n/a	n/a	1.70	n/a	Jc
S09V001315		A	7723-14-0	Phosphorus	ug/g	89.3	<0.0500	368	n/a	n/a	n/a	n/a	8.50	n/a	bc
S09V001315		A	7440-10-0	Praseodymium	ug/g	101	<0.0100	2.59	n/a	n/a	n/a	n/a	1.70	n/a	BJ
S09V001315		A	7704-34-9	Sulfur	ug/g	91.1	<0.100	52.1	n/a	n/a	n/a	n/a	17.0	n/a	J
S09V001315		A	7440-21-3	Silicon	ug/g	66.2	<0.0300	682	n/a	n/a	n/a	n/a	5.10	n/a	a
S09V001315		A	7440-31-5	Tin	ug/g	87.0	<0.0300	<5.10	n/a	n/a	n/a	n/a	5.10	n/a	U
S09V001315		A	7440-24-6	Strontium	ug/g	95.7	<3.00E-03	26.7	n/a	n/a	n/a	n/a	0.510	n/a	c
S09V001315		A	7440-32-6	Titanium	ug/g	91.0	<5.00E-03	844	n/a	n/a	n/a	n/a	0.850	n/a	c
S09V001315		A	7440-61-1	Uranium	ug/g	105	<0.100	<17.0	n/a	n/a	n/a	n/a	17.0	n/a	U
S09V001315		A	7440-33-7	Tungsten	ug/g	54.4	<0.200	39.7	n/a	n/a	n/a	n/a	34.0	n/a	Jab
S09V001315		A	7440-65-5	Yttrium	ug/g	93.1	<2.00E-03	4.92	n/a	n/a	n/a	n/a	0.340	n/a	c
S09V001315		A	7440-66-6	Zinc	ug/g	89.1	<5.00E-03	28.7	n/a	n/a	n/a	n/a	0.850	n/a	c
S09V001315		A	7440-67-7	Zirconium	ug/g	90.6	<5.00E-03	7.24	n/a	n/a	n/a	n/a	0.850	n/a	J
S09V001315		A	7440-22-4	Silver	ug/g	107	<8.00E-04	<0.136	n/a	n/a	n/a	n/a	0.136	n/a	U
S09V001315		A	7440-38-2	Arsenic	ug/g	105	<8.40E-04	2.40	n/a	n/a	n/a	n/a	0.143	n/a	
S09V001315		A	7440-43-9	Cadmium	ug/g	97.0	<6.00E-05	0.0633	n/a	n/a	n/a	n/a	0.0102	n/a	J
S09V001315		A	7439-92-1	Lead	ug/g	105	<6.20E-04	3.94	n/a	n/a	n/a	n/a	0.105	n/a	c
S09V001315		A	7440-36-0	Antimony	ug/g	100	<8.80E-04	<0.150	n/a	n/a	n/a	n/a	0.150	n/a	U
S09V001315		A	7782-49-2	Selenium	ug/g	103	2.52E-03	<0.207	n/a	n/a	n/a	n/a	0.207	n/a	U
S09V001315		A	7440-28-0	Thallium	ug/g	104	<6.00E-05	0.0779	n/a	n/a	n/a	n/a	0.0102	n/a	Jc
S09V001315		A	7440-62-2	Vanadium	ug/g	104	<4.80E-04	33.3	n/a	n/a	n/a	n/a	0.816	n/a	c
S09V001315		A	7440-02-0	Nickel	ug/g	103	<1.20E-03	11.6	n/a	n/a	n/a	n/a	0.204	n/a	
S09V001346		W	16984-48-8	Fluoride	ug/g	106	<0.0805	0.956	n/a	n/a	n/a	n/a	0.0200	n/a	
S09V001346		W	666-14-8	Glycolate	ug/g	106	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001346		W	71-50-1	Acetate	ug/g	110	<0.302	0.317	n/a	n/a	n/a	n/a	0.0752	n/a	J
S09V001346		W	12311-97-6	Formate	ug/g	108	<0.234	0.357	n/a	n/a	n/a	n/a	0.0581	n/a	J
S09V001346		W	16887-00-6	Chloride	ug/g	104	<0.499	1.26	n/a	n/a	n/a	n/a	0.124	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF4
Sample Depth: 54.5-56.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001346		W	14797-65-0	Nitrite	ug/g	106	<0.960	2.75	n/a	n/a	n/a	n/a	0.239	n/a	Jc
S09V001346		W	14808-79-8	Sulfate	ug/g	107	<0.935	37.2	n/a	n/a	n/a	n/a	0.233	n/a	
S09V001346		W	338-70-5	Oxalate	ug/g	105	<1.16	<0.288	n/a	n/a	n/a	n/a	0.288	n/a	U
S09V001346		W	14797-55-8	Nitrate	ug/g	104	<1.04	4.60	n/a	n/a	n/a	n/a	0.259	n/a	
S09V001346		W	14265-44-2	Phosphate	ug/g	105	<0.835	0.376	n/a	n/a	n/a	n/a	0.208	n/a	J
S09V001575		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.66E-05	n/a	n/a	n/a	n/a	2.66E-05	n/a	U
S09V001575		A	TH-232	Thorium-232	ug/g	96.8	<3.40E-06	2.30	n/a	n/a	n/a	n/a	6.47E-04	n/a	
S09V001575		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.22E-04	n/a	n/a	n/a	n/a	3.81E-05	n/a	J
S09V001575		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	2.42E-05	n/a	n/a	n/a	n/a	1.90E-05	n/a	J
S09V001575		A	15117-96-1	Uranium-235	ug/g	90.7	<2.20E-07	2.58E-03	n/a	n/a	n/a	n/a	4.19E-05	n/a	
S09V001575		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.52E-05	n/a	n/a	n/a	n/a	1.52E-05	n/a	U
S09V001575		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<2.02E-04	n/a	n/a	n/a	n/a	2.02E-04	n/a	U
S09V001575		A	U-238	Uranium-238	ug/g	97.4	<1.10E-05	0.395	n/a	n/a	n/a	n/a	2.09E-03	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF5
Sample Depth: 59-61

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000603			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V000603			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.284	n/a	n/a	n/a	n/a	0.284	n/a	U
S09V000603			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.373	n/a	n/a	n/a	n/a	0.373	n/a	U
S09V000603			75-35-4	1,1-Dichloroethene	ug/kg	73.0	<0.340	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000603			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.134	n/a	n/a	n/a	n/a	0.134	n/a	U
S09V000603			71-36-3	1-Butanol	ug/kg	82.6	<15.5	<11.6	n/a	n/a	n/a	n/a	11.6	n/a	U
S09V000603			108-10-1	Hexone	ug/kg	84.1	<1.76	<1.31	n/a	n/a	n/a	n/a	1.31	n/a	U
S09V000603			67-64-1	Acetone	ug/kg	88.5	<4.38	4.86	n/a	n/a	n/a	n/a	3.27	n/a	J
S09V000603			71-43-2	Benzene	ug/kg	78.7	<0.320	<0.239	n/a	n/a	n/a	n/a	0.239	n/a	U
S09V000603			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S09V000603			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S09V000603			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.134	n/a	n/a	n/a	n/a	0.134	n/a	U
S09V000603			108-90-7	Chlorobenzene	ug/kg	79.8	<0.220	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V000603			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V000603			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.463	n/a	n/a	n/a	n/a	0.463	n/a	U
S09V000603			78-93-3	2-Butanone	ug/kg	87.6	<2.66	<1.99	n/a	n/a	n/a	n/a	1.99	n/a	U
S09V000603			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000603			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.299	n/a	n/a	n/a	n/a	0.299	n/a	U
S09V000603			108-88-3	Toluene	ug/kg	77.8	<0.240	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V000603			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.104	n/a	n/a	n/a	n/a	0.104	n/a	U
S09V000603			79-01-6	Trichloroethene	ug/kg	81.3	<0.300	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S09V000603			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.478	n/a	n/a	n/a	n/a	0.478	n/a	U
S09V000603			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V000603			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.269	n/a	n/a	n/a	n/a	0.269	n/a	U
S09V000603			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.373	n/a	n/a	n/a	n/a	0.373	n/a	U
S09V000603			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.18	n/a	n/a	n/a	n/a	1.18	n/a	U
S09V000603			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.725	n/a	n/a	n/a	n/a	0.725	n/a	U
S09V000603			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.660	n/a	n/a	n/a	n/a	0.660	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF5
Sample Depth: 59-61

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000603			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.45	n/a	n/a	n/a	n/a	1.45	n/a	U
S09V000603			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V000603			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.313	n/a	n/a	n/a	n/a	0.313	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF7
Sample Depth: 59-61

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000609			%WATERA	%WATER-APD	%	n/a	n/a	3.891	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000609			57-12-5	Cyanide	ug/g	109	<0.0370	<4.17	n/a	n/a	n/a	n/a	4.17	n/a	U
S09V000609			7439-97-6	Mercury	ug/g	107	<1.00E-04	<0.0103	n/a	n/a	n/a	n/a	0.0103	n/a	U
S09V000609			PH	pH	unitless	n/a	n/a	9.26	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000609			18496-25-8	Sulfide	ug/g	98.3	<0.180	12.0	n/a	n/a	n/a	n/a	5.78	n/a	J
S09V000611			13966-00-2	Potassium-40	uCi/g	n/a	n/a	1.36E-05	1.58E-05	.0000147	14.9	n/a	8.38E-06	40.49	J
S09V000611			10198-40-0	Cobalt-60	uCi/g	99.1	<3.66E-07	<4.14E-07	<3.77E-07	n/a	n/a	n/a	4.14E-07	n/a	U
S09V000611			14234-35-6	Antimony-125	uCi/g	n/a	<8.57E-07	<1.06E-06	<9.61E-07	n/a	n/a	n/a	1.06E-06	n/a	U
S09V000611			10045-97-3	Cesium-137	uCi/g	104	<5.59E-07	<6.13E-07	<5.09E-07	n/a	n/a	n/a	6.13E-07	n/a	U
S09V000611			14683-23-9	Europium-152	uCi/g	n/a	<1.70E-06	<2.17E-06	<1.81E-06	n/a	n/a	n/a	2.17E-06	n/a	U
S09V000611			15585-10-1	Europium-154	uCi/g	n/a	<1.19E-06	<1.26E-06	<1.24E-06	n/a	n/a	n/a	1.26E-06	n/a	U
S09V000611			14391-16-3	Europium-155	uCi/g	n/a	<9.66E-07	<1.11E-06	<9.76E-07	n/a	n/a	n/a	1.11E-06	n/a	U
S09V000611			15046-84-1	Iodine-129	uCi/g	86.7	<4.40E-07	<1.36E-07	<1.41E-07	n/a	n/a	n/a	1.36E-07	n/a	U
S09V000612		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	80.0	<77.4	<66.6	n/a	n/a	n/a	n/a	66.6	n/a	U
S09V000612		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<86.6	n/a	n/a	n/a	n/a	86.6	n/a	U
S09V000612		O	106-46-7	1,4-Dichlorobenzene	ug/kg	78.2	<113	<97.4	n/a	n/a	n/a	n/a	97.4	n/a	U
S09V000612		O	121-14-2	2,4-Dinitrotoluene	ug/kg	90.8	<38.1	<32.8	n/a	n/a	n/a	n/a	32.8	n/a	U
S09V000612		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<37.8	n/a	n/a	n/a	n/a	37.8	n/a	U
S09V000612		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<42.6	n/a	n/a	n/a	n/a	42.6	n/a	U
S09V000612		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<49.4	n/a	n/a	n/a	n/a	49.4	n/a	U
S09V000612		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<46.2	n/a	n/a	n/a	n/a	46.2	n/a	U
S09V000612		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<44.2	n/a	n/a	n/a	n/a	44.2	n/a	U
S09V000612		O	83-32-9	Acenaphthene	ug/kg	85.3	<17.6	<15.1	n/a	n/a	n/a	n/a	15.1	n/a	U
S09V000612		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<32.5	n/a	n/a	n/a	n/a	32.5	n/a	U
S09V000612		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<42.0	n/a	n/a	n/a	n/a	42.0	n/a	U
S09V000612		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<35.4	n/a	n/a	n/a	n/a	35.4	n/a	U
S09V000612		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	1.08E+03	n/a	n/a	n/a	n/a	507	n/a	J
S09V000612		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<33.6	n/a	n/a	n/a	n/a	33.6	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF7
Sample Depth: 59-61

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000612		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<43.0	n/a	n/a	n/a	n/a	43.0	n/a	U
S09V000612		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	80.4	<43.2	<37.1	n/a	n/a	n/a	n/a	37.1	n/a	U
S09V000612		O	95-57-8	2-Chlorophenol	ug/kg	82.8	<66.5	<57.2	n/a	n/a	n/a	n/a	57.2	n/a	U
S09V000612		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<70.0	n/a	n/a	n/a	n/a	70.0	n/a	U
S09V000612		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S09V000612		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<483	n/a	n/a	n/a	n/a	483	n/a	U
S09V000612		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<41.0	n/a	n/a	n/a	n/a	41.0	n/a	U
S09V000612		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	83.2	<58.1	<50.0	n/a	n/a	n/a	n/a	50.0	n/a	U
S09V000612		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<30.4	n/a	n/a	n/a	n/a	30.4	n/a	U
S09V000612		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<59.9	n/a	n/a	n/a	n/a	59.9	n/a	U
S09V000612		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<96.1	n/a	n/a	n/a	n/a	96.1	n/a	U
S09V000612		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S09V000612		O	108-95-2	Phenol	ug/kg	82.2	<59.4	<51.1	n/a	n/a	n/a	n/a	51.1	n/a	U
S09V000612		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<53.8	n/a	n/a	n/a	n/a	53.8	n/a	U
S09V000612		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<55.5	n/a	n/a	n/a	n/a	55.5	n/a	U
S09V000612		O	100-02-7	4-Nitrophenol	ug/kg	100	<52.6	<45.2	n/a	n/a	n/a	n/a	45.2	n/a	U
S09V000612		O	87-86-5	Pentachlorophenol	ug/kg	75.1	<37.5	<32.2	n/a	n/a	n/a	n/a	32.2	n/a	U
S09V000612		O	129-00-0	Pyrene	ug/kg	84.3	<62.9	<54.1	n/a	n/a	n/a	n/a	54.1	n/a	U
S09V000612		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<55.9	n/a	n/a	n/a	n/a	55.9	n/a	U
S09V000612		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<92.7	n/a	n/a	n/a	n/a	92.7	n/a	U
S09V000612		O	128-37-0	BHT	ug/kg	n/a	<236	<203	n/a	n/a	n/a	n/a	203	n/a	U
S09V000612		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<157	n/a	n/a	n/a	n/a	157	n/a	U
S09V000612		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<91.7	n/a	n/a	n/a	n/a	91.7	n/a	U
S09V000612		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<481	n/a	n/a	n/a	n/a	481	n/a	U
S09V000612		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<164	n/a	n/a	n/a	n/a	164	n/a	U
S09V000612		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<396	n/a	n/a	n/a	n/a	396	n/a	U
S09V000613		W	14762-75-5	Carbon-14	uCi/g	95.2	<5.15E-05	<7.06E-05	n/a	n/a	n/a	n/a	7.06E-05	n/a	U
S09V000613		W	10028-17-8	Tritium	uCi/g	94.1	<4.23E-04	<3.37E-04	n/a	n/a	n/a	n/a	3.37E-04	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF7
Sample Depth: 59-61

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000615	S	14798-03-9	Ammonium	ug/g	100	0.0311	<0.475	n/a	n/a	n/a	n/a	0.475	n/a	U
S09V000616	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-06	<1.07E-03	n/a	n/a	n/a	n/a	1.07E-03	n/a	U
S09V000616	A	SN-117	Tin-117	ug/g	105	<2.20E-04	<0.0392	n/a	n/a	n/a	n/a	0.0392	n/a	U
S09V000616	A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.12E-04	n/a	n/a	n/a	n/a	7.12E-04	n/a	U
S09V000617	E	CM-243/244	Curium-243/244	uCi/g	n/a	<8.04E-07	<3.87E-07	<3.66E-07	n/a	n/a	n/a	3.87E-07	n/a	U
S09V000617	E	14596-10-2	Americium-241	uCi/g	97.6	<2.01E-06	<9.67E-07	<9.15E-07	n/a	n/a	n/a	9.67E-07	n/a	U
S09V000617	E	15510-73-3	Curium-242	uCi/g	n/a	<8.04E-07	<3.87E-07	<3.66E-07	n/a	n/a	n/a	3.87E-07	n/a	U
S09V000617	E	13981-37-8	Nickel-63	uCi/g	110	2.04E-04	<4.18E-05	<9.88E-05	n/a	n/a	n/a	4.18E-05	n/a	U
S09V000617	E	PU-239/240	Plutonium-239/240	uCi/g	96.6	<1.59E-06	<7.18E-07	<5.69E-07	n/a	n/a	n/a	7.18E-07	n/a	U
S09V000617	E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.59E-06	<7.18E-07	<5.69E-07	n/a	n/a	n/a	7.18E-07	n/a	U
S09V000617	E	15758-45-9	Selenium-79	uCi/g	n/a	4.58E-06	<2.55E-06	2.09E-06	n/a	n/a	n/a	2.55E-06	n/a	U
S09V000617	E	SR-89/90	Strontium-89/90	uCi/g	100	5.69E-06	<2.35E-06	<2.32E-06	n/a	n/a	n/a	2.35E-06	n/a	U
S09V001316	A	7429-90-5	Aluminum	ug/g	90.7	<0.0300	6.99E+03	n/a	n/a	n/a	n/a	5.67	n/a	c
S09V001316	A	7440-39-3	Barium	ug/g	95.2	<3.00E-03	53.4	n/a	n/a	n/a	n/a	0.567	n/a	
S09V001316	A	7440-41-7	Beryllium	ug/g	95.0	<1.00E-03	0.234	n/a	n/a	n/a	n/a	0.189	n/a	J
S09V001316	A	7440-70-2	Calcium	ug/g	85.6	<0.0500	7.63E+03	n/a	n/a	n/a	n/a	9.45	n/a	c
S09V001316	A	7440-45-1	Cerium	ug/g	106	<0.0300	19.6	n/a	n/a	n/a	n/a	5.67	n/a	Jb
S09V001316	A	7440-48-4	Cobalt	ug/g	91.7	<0.0100	6.14	n/a	n/a	n/a	n/a	1.89	n/a	J
S09V001316	A	7440-47-3	Chromium	ug/g	93.1	<5.00E-03	15.9	n/a	n/a	n/a	n/a	0.945	n/a	
S09V001316	A	7440-50-8	Copper	ug/g	92.8	<5.00E-03	12.4	n/a	n/a	n/a	n/a	0.945	n/a	c
S09V001316	A	7440-53-1	Europium	ug/g	94.7	<5.00E-03	1.84	n/a	n/a	n/a	n/a	0.945	n/a	J
S09V001316	A	7439-89-6	Iron	ug/g	92.2	<5.00E-03	1.44E+04	n/a	n/a	n/a	n/a	0.945	n/a	c
S09V001316	A	7440-09-7	Potassium	ug/g	86.0	<0.500	1.36E+03	n/a	n/a	n/a	n/a	94.5	n/a	b
S09V001316	A	7439-91-0	Lanthanum	ug/g	95.0	<3.00E-03	8.92	n/a	n/a	n/a	n/a	0.567	n/a	
S09V001316	A	7439-93-2	Lithium	ug/g	92.1	<3.00E-03	10.7	n/a	n/a	n/a	n/a	0.567	n/a	
S09V001316	A	7439-95-4	Magnesium	ug/g	89.1	<0.0500	4.72E+03	n/a	n/a	n/a	n/a	9.45	n/a	c
S09V001316	A	7439-96-5	Manganese	ug/g	90.5	<3.00E-03	246	n/a	n/a	n/a	n/a	0.567	n/a	c
S09V001316	A	7439-98-7	Molybdenum	ug/g	89.2	<0.0200	<3.78	n/a	n/a	n/a	n/a	3.78	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF7
Sample Depth: 59-61

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001316		A	7440-23-5	Sodium	ug/g	90.0	<0.100	199	n/a	n/a	n/a	n/a	18.9	n/a	bc
S09V001316		A	7440-00-8	Neodymium	ug/g	97.8	<0.0100	15.2	n/a	n/a	n/a	n/a	1.89	n/a	Jc
S09V001316		A	7723-14-0	Phosphorus	ug/g	89.3	<0.0500	457	n/a	n/a	n/a	n/a	9.45	n/a	bc
S09V001316		A	7440-10-0	Praseodymium	ug/g	101	<0.0100	3.09	n/a	n/a	n/a	n/a	1.89	n/a	BJ
S09V001316		A	7704-34-9	Sulfur	ug/g	91.1	<0.100	47.2	n/a	n/a	n/a	n/a	18.9	n/a	J
S09V001316		A	7440-21-3	Silicon	ug/g	66.2	<0.0300	820	n/a	n/a	n/a	n/a	5.67	n/a	a
S09V001316		A	7440-31-5	Tin	ug/g	87.0	<0.0300	6.67	n/a	n/a	n/a	n/a	5.67	n/a	J
S09V001316		A	7440-24-6	Strontium	ug/g	95.7	<3.00E-03	28.9	n/a	n/a	n/a	n/a	0.567	n/a	c
S09V001316		A	7440-32-6	Titanium	ug/g	91.0	<5.00E-03	833	n/a	n/a	n/a	n/a	0.945	n/a	c
S09V001316		A	7440-61-1	Uranium	ug/g	105	<0.100	<18.9	n/a	n/a	n/a	n/a	18.9	n/a	U
S09V001316		A	7440-65-5	Yttrium	ug/g	93.1	<2.00E-03	5.04	n/a	n/a	n/a	n/a	0.378	n/a	c
S09V001316		A	7440-66-6	Zinc	ug/g	89.1	<5.00E-03	29.9	n/a	n/a	n/a	n/a	0.945	n/a	c
S09V001316		A	7440-67-7	Zirconium	ug/g	90.6	<5.00E-03	6.64	n/a	n/a	n/a	n/a	0.945	n/a	J
S09V001316		A	7440-22-4	Silver	ug/g	107	<8.00E-04	<0.151	n/a	n/a	n/a	n/a	0.151	n/a	U
S09V001316		A	7440-38-2	Arsenic	ug/g	105	<8.40E-04	3.18	n/a	n/a	n/a	n/a	0.159	n/a	
S09V001316		A	7440-43-9	Cadmium	ug/g	97.0	<6.00E-05	0.0474	n/a	n/a	n/a	n/a	0.0113	n/a	J
S09V001316		A	7439-92-1	Lead	ug/g	105	<6.20E-04	4.63	n/a	n/a	n/a	n/a	0.117	n/a	c
S09V001316		A	7440-36-0	Antimony	ug/g	100	<8.80E-04	<0.166	n/a	n/a	n/a	n/a	0.166	n/a	U
S09V001316		A	7782-49-2	Selenium	ug/g	103	2.52E-03	<0.231	n/a	n/a	n/a	n/a	0.231	n/a	U
S09V001316		A	7440-28-0	Thallium	ug/g	104	<6.00E-05	0.0839	n/a	n/a	n/a	n/a	0.0113	n/a	Jc
S09V001316		A	7440-62-2	Vanadium	ug/g	104	<4.80E-04	30.2	n/a	n/a	n/a	n/a	0.907	n/a	c
S09V001316		A	7440-02-0	Nickel	ug/g	103	<1.20E-03	19.3	n/a	n/a	n/a	n/a	0.227	n/a	
S09V001347		W	16984-48-8	Fluoride	ug/g	106	<0.0805	0.839	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001347		W	666-14-8	Glycolate	ug/g	106	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001347		W	71-50-1	Acetate	ug/g	110	<0.302	0.578	n/a	n/a	n/a	n/a	0.0753	n/a	J
S09V001347		W	12311-97-6	Formate	ug/g	108	<0.234	0.323	n/a	n/a	n/a	n/a	0.0582	n/a	J
S09V001347		W	16887-00-6	Chloride	ug/g	104	<0.499	0.796	n/a	n/a	n/a	n/a	0.124	n/a	
S09V001347		W	14797-65-0	Nitrite	ug/g	106	<0.960	0.627	n/a	n/a	n/a	n/a	0.239	n/a	Jc

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C Farm WMA C
Data Summary Report

Sample Group: 20090364
Core Number: C6406
Customer Sample ID: B1YTF7
Sample Depth: 59-61

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001347		W	14808-79-8	Sulfate	ug/g	107	<0.935	23.4	n/a	n/a	n/a	n/a	0.233	n/a	
S09V001347		W	338-70-5	Oxalate	ug/g	105	<1.16	0.300	n/a	n/a	n/a	n/a	0.288	n/a	J
S09V001347		W	14797-55-8	Nitrate	ug/g	104	<1.04	3.06	n/a	n/a	n/a	n/a	0.259	n/a	
S09V001347		W	14265-44-2	Phosphate	ug/g	105	<0.835	0.386	n/a	n/a	n/a	n/a	0.208	n/a	J
S09V001576		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.64E-05	<2.43E-05	n/a	n/a	n/a	2.64E-05	n/a	U
S09V001576		A	TH-232	Thorium-232	ug/g	96.8	<3.40E-06	2.91	2.54	2.725	13.8	97.0	6.42E-04	n/a	
S09V001576		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.42E-04	1.10E-04	.000126	25.7	n/a	3.78E-05	n/a	J
S09V001576		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	2.85E-05	1.85E-05	.0000235	42.3	n/a	1.89E-05	n/a	J
S09V001576		A	15117-96-1	Uranium-235	ug/g	90.7	<2.20E-07	2.83E-03	2.57E-03	.0027	9.66	93.6	4.15E-05	n/a	
S09V001576		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.51E-05	<1.39E-05	n/a	n/a	n/a	1.51E-05	n/a	U
S09V001576		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<2.00E-04	<1.84E-04	n/a	n/a	112	2.00E-04	n/a	U
S09V001576		A	U-238	Uranium-238	ug/g	97.4	<1.10E-05	0.432	0.375	.4035	14.2	99.1	2.08E-03	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090366
Core Number: C6406
Customer Sample ID: B1YY24
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000493			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000493			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V000493			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000493			75-35-4	1,1-Dichloroethene	ug/L	82.0	<0.170	<0.189	n/a	n/a	n/a	82.5	0.189	n/a	U
S09V000493			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000493			71-36-3	1-Butanol	ug/L	72.5	<7.77	<8.63	n/a	n/a	n/a	90.3	8.63	n/a	U
S09V000493			108-10-1	Hexone	ug/L	83.5	<0.880	<0.978	n/a	n/a	n/a	96.1	0.978	n/a	U
S09V000493			67-64-1	Acetone	ug/L	84.2	2.75	<2.43	n/a	n/a	n/a	103	2.43	n/a	U
S09V000493			71-43-2	Benzene	ug/L	84.1	<0.160	<0.178	n/a	n/a	n/a	86.9	0.178	n/a	U
S09V000493			75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000493			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000493			67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000493			108-90-7	Chlorobenzene	ug/L	87.6	<0.110	<0.122	n/a	n/a	n/a	89.2	0.122	n/a	U
S09V000493			100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V000493			1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V000493			78-93-3	2-Butanone	ug/L	80.7	<1.33	<1.48	n/a	n/a	n/a	97.7	1.48	n/a	U
S09V000493			75-09-2	Methylenechloride	ug/L	n/a	<0.170	18.7	n/a	n/a	n/a	n/a	0.189	n/a	
S09V000493			127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V000493			108-88-3	Toluene	ug/L	85.9	<0.120	0.174	n/a	n/a	n/a	85.9	0.133	n/a	J
S09V000493			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V000493			79-01-6	Trichloroethene	ug/L	86.6	<0.150	<0.167	n/a	n/a	n/a	86.0	0.167	n/a	U
S09V000493			75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V000493			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V000493			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000493			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000493			79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V000493			141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V000493			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U

NA = Not Analyzed, ND = Not Detected

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B - Found in Blank
X - Comment
U - Less Than Detection Limit
a - LCS Outside Range
Y - Comment
c - RPD Outside Range
b - MS/MSD Outside Range
e - SERDIL Outside Range

C Farm WMA C
Data Summary Report

Sample Group: 20090366
Core Number: C6406
Customer Sample ID: B1YY24
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000493			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V000493			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000493			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

NA = Not Analyzed, ND = Not Detected

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e - SERDIL Outside Range

C Farm WMA C
Data Summary Report

Sample Group: 20090376
Core Number: C6400
Customer Sample ID: B20VR1
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000619			71-55-6	1,1,1-Trichloroethane	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000619			79-00-5	1,1,2-Trichloroethane	ug/L	n/a	<0.190	<0.211	n/a	n/a	n/a	n/a	0.211	n/a	U
S09V000619			79-34-5	1,1,2,2-Tetrachloroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000619			75-35-4	1,1-Dichloroethene	ug/L	96.1	<0.170	<0.189	n/a	n/a	n/a	91.5	0.189	n/a	U
S09V000619			107-06-2	1,2-Dichloroethane	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000619			71-36-3	1-Butanol	ug/L	91.0	<7.77	<8.63	n/a	n/a	n/a	97.3	8.63	n/a	U
S09V000619			108-10-1	Hexone	ug/L	103	<0.880	<0.978	n/a	n/a	n/a	108	0.978	n/a	U
S09V000619			67-64-1	Acetone	ug/L	115	3.68	<2.43	n/a	n/a	n/a	110	2.43	n/a	U
S09V000619			71-43-2	Benzene	ug/L	94.2	<0.160	<0.178	n/a	n/a	n/a	89.0	0.178	n/a	U
S09V000619			75-15-0	Carbon disulfide	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000619			56-23-5	Carbon tetrachloride	ug/L	n/a	<0.150	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000619			67-66-3	Chloroform	ug/L	n/a	<0.0900	<0.100	n/a	n/a	n/a	n/a	0.100	n/a	U
S09V000619			108-90-7	Chlorobenzene	ug/L	96.6	<0.110	<0.122	n/a	n/a	n/a	88.3	0.122	n/a	U
S09V000619			100-41-4	Ethylbenzene	ug/L	n/a	<0.120	<0.133	n/a	n/a	n/a	n/a	0.133	n/a	U
S09V000619			1330-20-7	Xylenes (total)	ug/L	n/a	<0.310	<0.344	n/a	n/a	n/a	n/a	0.344	n/a	U
S09V000619			78-93-3	2-Butanone	ug/L	102	<1.33	<1.48	n/a	n/a	n/a	101	1.48	n/a	U
S09V000619			75-09-2	Methylenechloride	ug/L	n/a	<0.170	1.20	n/a	n/a	n/a	n/a	0.189	n/a	J
S09V000619			127-18-4	Tetrachloroethene	ug/L	n/a	<0.200	<0.222	n/a	n/a	n/a	n/a	0.222	n/a	U
S09V000619			108-88-3	Toluene	ug/L	96.1	<0.120	0.197	n/a	n/a	n/a	91.4	0.133	n/a	J
S09V000619			10061-02-6	trans-1,3-Dichloropropene	ug/L	n/a	<0.0700	<0.0778	n/a	n/a	n/a	n/a	0.0778	n/a	U
S09V000619			79-01-6	Trichloroethene	ug/L	93.8	<0.150	<0.167	n/a	n/a	n/a	84.9	0.167	n/a	U
S09V000619			75-01-4	Vinyl chloride	ug/L	n/a	<0.320	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U
S09V000619			156-59-2	cis-Dichloroethylene	ug/L	n/a	<0.130	<0.144	n/a	n/a	n/a	n/a	0.144	n/a	U
S09V000619			156-60-5	trans-Dichloroethylene	ug/L	n/a	<0.180	<0.200	n/a	n/a	n/a	n/a	0.200	n/a	U
S09V000619			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	n/a	<0.250	<0.278	n/a	n/a	n/a	n/a	0.278	n/a	U
S09V000619			79-46-9	2-Nitropropane	ug/L	n/a	<1.03	<1.14	n/a	n/a	n/a	n/a	1.14	n/a	U
S09V000619			141-78-6	Ethyl acetate	ug/L	n/a	<0.290	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V000619			60-29-7	Diethyl ether	ug/L	n/a	<0.390	<0.433	n/a	n/a	n/a	n/a	0.433	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090376
Core Number: C6400
Customer Sample ID: B20VR1
Sample Depth: Trip Blank

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000619			75-69-4	Trichlorofluoromethane	ug/L	n/a	<0.970	<1.08	n/a	n/a	n/a	n/a	1.08	n/a	U
S09V000619			95-47-6	o-Xylene	ug/L	n/a	<0.100	<0.111	n/a	n/a	n/a	n/a	0.111	n/a	U
S09V000619			106-42-3	m,p-Xylene	ug/L	n/a	<0.210	<0.233	n/a	n/a	n/a	n/a	0.233	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTF8
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000636			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S09V000636			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.432	n/a	n/a	n/a	n/a	0.432	n/a	U
S09V000636			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.568	n/a	n/a	n/a	n/a	0.568	n/a	U
S09V000636			75-35-4	1,1-Dichloroethene	ug/kg	93.4	<0.340	<0.386	n/a	n/a	n/a	n/a	0.386	n/a	U
S09V000636			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.205	n/a	n/a	n/a	n/a	0.205	n/a	U
S09V000636			71-36-3	1-Butanol	ug/kg	114	<15.5	<17.7	n/a	n/a	n/a	n/a	17.7	n/a	U
S09V000636			108-10-1	Hexone	ug/kg	116	<1.76	<2.00	n/a	n/a	n/a	n/a	2.00	n/a	U
S09V000636			67-64-1	Acetone	ug/kg	127	8.43	12.6	n/a	n/a	n/a	n/a	4.98	n/a	BJ
S09V000636			71-43-2	Benzene	ug/kg	93.2	<0.320	<0.364	n/a	n/a	n/a	n/a	0.364	n/a	U
S09V000636			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.341	n/a	n/a	n/a	n/a	0.341	n/a	U
S09V000636			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.341	n/a	n/a	n/a	n/a	0.341	n/a	U
S09V000636			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.205	n/a	n/a	n/a	n/a	0.205	n/a	U
S09V000636			108-90-7	Chlorobenzene	ug/kg	95.3	<0.220	<0.250	n/a	n/a	n/a	n/a	0.250	n/a	U
S09V000636			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000636			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.705	n/a	n/a	n/a	n/a	0.705	n/a	U
S09V000636			78-93-3	2-Butanone	ug/kg	115	<2.66	<3.02	n/a	n/a	n/a	n/a	3.02	n/a	U
S09V000636			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.386	n/a	n/a	n/a	n/a	0.386	n/a	U
S09V000636			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.455	n/a	n/a	n/a	n/a	0.455	n/a	U
S09V000636			108-88-3	Toluene	ug/kg	97.2	0.292	<0.273	n/a	n/a	n/a	n/a	0.273	n/a	U
S09V000636			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.159	n/a	n/a	n/a	n/a	0.159	n/a	U
S09V000636			79-01-6	Trichloroethene	ug/kg	92.5	<0.300	<0.341	n/a	n/a	n/a	n/a	0.341	n/a	U
S09V000636			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.727	n/a	n/a	n/a	n/a	0.727	n/a	U
S09V000636			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.295	n/a	n/a	n/a	n/a	0.295	n/a	U
S09V000636			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.409	n/a	n/a	n/a	n/a	0.409	n/a	U
S09V000636			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.568	n/a	n/a	n/a	n/a	0.568	n/a	U
S09V000636			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.79	n/a	n/a	n/a	n/a	1.79	n/a	U
S09V000636			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<1.10	n/a	n/a	n/a	n/a	1.10	n/a	U
S09V000636			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<1.01	n/a	n/a	n/a	n/a	1.01	n/a	U

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a - LCS Outside Range
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b - MS/MSD Outside Range
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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTF8
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000636			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<2.20	n/a	n/a	n/a	n/a	2.20	n/a	U
S09V000636			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S09V000636			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.477	n/a	n/a	n/a	n/a	0.477	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTF9
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000620			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V000620			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.339	n/a	n/a	n/a	n/a	0.339	n/a	U
S09V000620			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.446	n/a	n/a	n/a	n/a	0.446	n/a	U
S09V000620			75-35-4	1,1-Dichloroethene	ug/kg	100	<0.340	<0.304	n/a	n/a	n/a	92.8	0.304	n/a	U
S09V000620			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V000620			71-36-3	1-Butanol	ug/kg	119	<15.5	<13.9	n/a	n/a	n/a	90.4	13.9	n/a	U
S09V000620			108-10-1	Hexone	ug/kg	123	<1.76	<1.57	n/a	n/a	n/a	106	1.57	n/a	U
S09V000620			67-64-1	Acetone	ug/kg	126	6.83	6.99	n/a	n/a	n/a	104	3.91	n/a	BJ
S09V000620			71-43-2	Benzene	ug/kg	96.4	<0.320	<0.286	n/a	n/a	n/a	91.2	0.286	n/a	U
S09V000620			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.268	n/a	n/a	n/a	n/a	0.268	n/a	U
S09V000620			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.268	n/a	n/a	n/a	n/a	0.268	n/a	U
S09V000620			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V000620			108-90-7	Chlorobenzene	ug/kg	98.2	<0.220	<0.196	n/a	n/a	n/a	91.5	0.196	n/a	U
S09V000620			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.214	n/a	n/a	n/a	n/a	0.214	n/a	U
S09V000620			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.554	n/a	n/a	n/a	n/a	0.554	n/a	U
S09V000620			78-93-3	2-Butanone	ug/kg	119	<2.66	<2.38	n/a	n/a	n/a	104	2.38	n/a	U
S09V000620			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.304	n/a	n/a	n/a	n/a	0.304	n/a	U
S09V000620			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.357	n/a	n/a	n/a	n/a	0.357	n/a	U
S09V000620			108-88-3	Toluene	ug/kg	103	0.386	<0.214	n/a	n/a	n/a	91.8	0.214	n/a	U
S09V000620			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.125	n/a	n/a	n/a	n/a	0.125	n/a	U
S09V000620			79-01-6	Trichloroethene	ug/kg	92.9	<0.300	<0.268	n/a	n/a	n/a	87.1	0.268	n/a	U
S09V000620			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.571	n/a	n/a	n/a	n/a	0.571	n/a	U
S09V000620			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.232	n/a	n/a	n/a	n/a	0.232	n/a	U
S09V000620			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.321	n/a	n/a	n/a	n/a	0.321	n/a	U
S09V000620			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.446	n/a	n/a	n/a	n/a	0.446	n/a	U
S09V000620			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.41	n/a	n/a	n/a	n/a	1.41	n/a	U
S09V000620			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.868	n/a	n/a	n/a	n/a	0.868	n/a	U
S09V000620			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.790	n/a	n/a	n/a	n/a	0.790	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTF9
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000620			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.73	n/a	n/a	n/a	n/a	1.73	n/a	U
S09V000620			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.179	n/a	n/a	n/a	n/a	0.179	n/a	U
S09V000620			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.375	n/a	n/a	n/a	n/a	0.375	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH1
Sample Depth: 5-7

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000626		%WATERA	%WATER-APD	%	n/a	n/a	8.017	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000626		57-12-5	Cyanide	ug/g	108	<0.0370	<4.61	<4.67	n/a	n/a	85.8	4.61	n/a	U
S09V000626		7439-97-6	Mercury	ug/g	104	<1.00E-04	0.0192	n/a	n/a	n/a	n/a	0.0106	n/a	J
S09V000626		PH	pH	unitless	n/a	n/a	9.93	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000626		18496-25-8	Sulfide	ug/g	98.8	<0.180	29.7	29.1	29.4	1.88	94.5	6.45	n/a	J
S09V000628		10198-40-0	Cobalt-60	uCi/g	103	<1.93E-07	<2.07E-07	n/a	n/a	n/a	n/a	2.07E-07	n/a	U
S09V000628		14234-35-6	Antimony-125	uCi/g	n/a	<5.25E-07	<5.53E-07	n/a	n/a	n/a	n/a	5.53E-07	n/a	U
S09V000628		10045-97-3	Cesium-137	uCi/g	106	<2.39E-07	9.83E-07	n/a	n/a	n/a	n/a	2.77E-07	19.59	
S09V000628		14683-23-9	Europium-152	uCi/g	n/a	<1.02E-06	<1.01E-06	n/a	n/a	n/a	n/a	1.01E-06	n/a	U
S09V000628		15585-10-1	Europium-154	uCi/g	n/a	<6.53E-07	<6.94E-07	n/a	n/a	n/a	n/a	6.94E-07	n/a	U
S09V000628		14391-16-3	Europium-155	uCi/g	n/a	<4.01E-07	<4.28E-07	n/a	n/a	n/a	n/a	4.28E-07	n/a	U
S09V000628		15046-84-1	Iodine-129	uCi/g	95.6	1.59E-06	8.08E-07	n/a	n/a	n/a	n/a	2.25E-07	19.6	B
S09V000629	O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	62.9	<77.4	<77.7	n/a	n/a	n/a	n/a	77.7	n/a	U
S09V000629	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
S09V000629	O	106-46-7	1,4-Dichlorobenzene	ug/kg	61.5	<113	<114	n/a	n/a	n/a	n/a	114	n/a	U
S09V000629	O	121-14-2	2,4-Dinitrotoluene	ug/kg	73.7	<38.1	<38.2	n/a	n/a	n/a	n/a	38.2	n/a	U
S09V000629	O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<44.2	n/a	n/a	n/a	n/a	44.2	n/a	U
S09V000629	O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<49.7	n/a	n/a	n/a	n/a	49.7	n/a	U
S09V000629	O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<57.7	n/a	n/a	n/a	n/a	57.7	n/a	U
S09V000629	O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<53.9	n/a	n/a	n/a	n/a	53.9	n/a	U
S09V000629	O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<51.6	n/a	n/a	n/a	n/a	51.6	n/a	U
S09V000629	O	83-32-9	Acenaphthene	ug/kg	69.4	<17.6	<17.7	n/a	n/a	n/a	n/a	17.7	n/a	U
S09V000629	O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<37.9	n/a	n/a	n/a	n/a	37.9	n/a	U
S09V000629	O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<49.1	n/a	n/a	n/a	n/a	49.1	n/a	U
S09V000629	O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.4	n/a	n/a	n/a	n/a	41.4	n/a	U
S09V000629	O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<592	n/a	n/a	n/a	n/a	592	n/a	U
S09V000629	O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.2	n/a	n/a	n/a	n/a	39.2	n/a	U
S09V000629	O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<50.2	n/a	n/a	n/a	n/a	50.2	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH1
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000629		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	68.2	<43.2	<43.4	n/a	n/a	n/a	n/a	43.4	n/a	U
S09V000629		O	95-57-8	2-Chlorophenol	ug/kg	61.1	<66.5	<66.8	n/a	n/a	n/a	n/a	66.8	n/a	U
S09V000629		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.7	n/a	n/a	n/a	n/a	81.7	n/a	U
S09V000629		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.3	n/a	n/a	n/a	n/a	51.3	n/a	U
S09V000629		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<564	n/a	n/a	n/a	n/a	564	n/a	U
S09V000629		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.9	n/a	n/a	n/a	n/a	47.9	n/a	U
S09V000629		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	57.6	<58.1	<58.3	n/a	n/a	n/a	n/a	58.3	n/a	U
S09V000629		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.5	n/a	n/a	n/a	n/a	35.5	n/a	U
S09V000629		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<70.0	n/a	n/a	n/a	n/a	70.0	n/a	U
S09V000629		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V000629		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<51.2	n/a	n/a	n/a	n/a	51.2	n/a	U
S09V000629		O	108-95-2	Phenol	ug/kg	62.8	<59.4	<59.6	n/a	n/a	n/a	n/a	59.6	n/a	U
S09V000629		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<62.8	n/a	n/a	n/a	n/a	62.8	n/a	U
S09V000629		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.8	n/a	n/a	n/a	n/a	64.8	n/a	U
S09V000629		O	100-02-7	4-Nitrophenol	ug/kg	75.6	<52.6	<52.8	n/a	n/a	n/a	n/a	52.8	n/a	U
S09V000629		O	87-86-5	Pentachlorophenol	ug/kg	78.1	<37.5	<37.6	n/a	n/a	n/a	n/a	37.6	n/a	U
S09V000629		O	129-00-0	Pyrene	ug/kg	79.2	<62.9	<63.1	n/a	n/a	n/a	n/a	63.1	n/a	U
S09V000629		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<65.2	n/a	n/a	n/a	n/a	65.2	n/a	U
S09V000629		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V000629		O	128-37-0	BHT	ug/kg	n/a	<236	<236	n/a	n/a	n/a	n/a	236	n/a	U
S09V000629		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<183	n/a	n/a	n/a	n/a	183	n/a	U
S09V000629		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000629		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<561	n/a	n/a	n/a	n/a	561	n/a	U
S09V000629		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<192	n/a	n/a	n/a	n/a	192	n/a	U
S09V000629		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<462	n/a	n/a	n/a	n/a	462	n/a	U
S09V000630		W	14762-75-5	Carbon-14	uCi/g	97.6	<9.60E-05	<6.36E-05	<6.54E-05	n/a	n/a	97.5	6.36E-05	n/a	U
S09V000630		W	10028-17-8	Tritium	uCi/g	88.4	<2.93E-04	<2.93E-04	<3.18E-04	n/a	n/a	91.1	2.93E-04	n/a	U
S09V000631		A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	5.85E+03	5.99E+03	5920	2.44	580	5.68	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH1
Sample Depth: 5-7

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000631	A	7440-39-3	Barium	ug/g	94.1	<3.00E-03	66.1	63.1	64.6	4.65	98.5	0.568	n/a	
S09V000631	A	7440-41-7	Beryllium	ug/g	96.5	<1.00E-03	0.191	0.228	.2095	17.6	100	0.189	n/a	J
S09V000631	A	7440-70-2	Calcium	ug/g	84.0	<0.0500	7.51E+03	8.26E+03	7885	9.43	400	9.47	n/a	
S09V000631	A	7440-45-1	Cerium	ug/g	98.3	<0.0300	26.3	31.7	29	18.8	87.4	5.68	n/a	J
S09V000631	A	7440-48-4	Cobalt	ug/g	91.0	<0.0100	7.66	10.2	8.93	28.0	96.0	1.89	n/a	J
S09V000631	A	7440-47-3	Chromium	ug/g	91.0	<5.00E-03	5.48	n/a	n/a	n/a	96.6	0.947	n/a	
S09V000631	A	7440-50-8	Copper	ug/g	93.6	<5.00E-03	12.4	10.5	11.45	16.7	97.3	0.947	n/a	
S09V000631	A	7440-53-1	Europium	ug/g	94.4	<5.00E-03	4.30	4.91	4.605	13.3	83.2	0.947	n/a	J
S09V000631	A	7439-89-6	Iron	ug/g	90.5	<5.00E-03	2.10E+04	2.15E+04	21250	2.59	563	0.947	n/a	
S09V000631	A	7440-09-7	Potassium	ug/g	91.7	<0.500	1.02E+03	1.10E+03	1060	7.32	144	94.7	n/a	b
S09V000631	A	7439-91-0	Lanthanum	ug/g	93.7	<3.00E-03	11.0	12.9	11.95	16.5	94.8	0.568	n/a	
S09V000631	A	7439-93-2	Lithium	ug/g	94.7	<3.00E-03	6.30	7.46	6.88	16.9	92.0	0.568	n/a	
S09V000631	A	7439-95-4	Magnesium	ug/g	86.9	<0.0500	4.12E+03	4.84E+03	4480	16.1	236	9.47	n/a	
S09V000631	A	7439-96-5	Manganese	ug/g	90.0	<3.00E-03	298	337	317.5	12.4	106	0.568	n/a	
S09V000631	A	7439-98-7	Molybdenum	ug/g	92.3	<0.0200	<3.79	<3.80	n/a	n/a	96.1	3.79	n/a	U
S09V000631	A	7440-23-5	Sodium	ug/g	93.6	<0.100	636	651	643.5	2.21	155	18.9	n/a	b
S09V000631	A	7440-00-8	Neodymium	ug/g	95.4	<0.0100	11.5	13.3	12.4	14.2	83.2	1.89	n/a	J
S09V000631	A	7723-14-0	Phosphorus	ug/g	92.0	<0.0500	879	842	860.5	4.34	95.5	9.47	n/a	
S09V000631	A	7440-18-8	Ruthenium	ug/g	88.1	<0.0300	12.1	12.0	12.05	0.579	82.2	5.68	n/a	J
S09V000631	A	7704-34-9	Sulfur	ug/g	88.1	<0.100	76.8	65.4	71.1	16.0	91.0	18.9	n/a	J
S09V000631	A	7440-21-3	Silicon	ug/g	88.7	<0.0300	470	443	456.5	6.06	108	5.68	n/a	
S09V000631	A	7440-24-6	Strontium	ug/g	92.7	<3.00E-03	26.6	28.9	27.75	8.57	96.2	0.568	n/a	
S09V000631	A	7440-25-7	Tantalum	ug/g	92.4	<0.0500	14.5	n/a	n/a	n/a	0.551	9.47	n/a	Jb
S09V000631	A	7440-32-6	Titanium	ug/g	92.2	<5.00E-03	1.77E+03	1.82E+03	1795	2.92	141	0.947	n/a	b
S09V000631	A	7440-61-1	Uranium	ug/g	104	<0.100	<18.9	<19.0	n/a	n/a	92.1	18.9	n/a	U
S09V000631	A	7440-65-5	Yttrium	ug/g	90.9	<2.00E-03	9.17	9.62	9.395	4.86	79.3	0.379	n/a	
S09V000631	A	7440-66-6	Zinc	ug/g	88.0	5.27E-03	39.5	40.5	40	2.49	94.8	0.947	n/a	
S09V000631	A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	17.4	17.6	17.5	1.32	87.7	0.947	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH1
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000631		A	7440-22-4	Silver	ug/g	108	<1.60E-04	0.101	0.105	.103	3.95	111	0.0303	n/a	J
S09V000631		A	7440-38-2	Arsenic	ug/g	102	<8.40E-04	3.98	4.34	4.16	8.58	117	0.159	n/a	
S09V000631		A	7440-43-9	Cadmium	ug/g	103	<6.00E-05	0.112	0.104	.108	6.92	106	0.0114	n/a	J
S09V000631		A	7439-92-1	Lead	ug/g	105	<6.20E-04	5.79	5.61	5.7	3.28	106	0.117	n/a	
S09V000631		A	7440-36-0	Antimony	ug/g	105	<8.80E-04	<0.167	<0.167	n/a	n/a	92.4	0.167	n/a	U
S09V000631		A	7782-49-2	Selenium	ug/g	106	3.84E-03	<0.231	<0.232	n/a	n/a	109	0.231	n/a	U
S09V000631		A	7440-28-0	Thallium	ug/g	103	<6.00E-05	0.0827	0.0913	.087	9.84	105	0.0114	n/a	J
S09V000631		A	7440-62-2	Vanadium	ug/g	100	<4.80E-04	58.3	60.7	59.5	4.08	118	0.909	n/a	
S09V000631		A	7440-02-0	Nickel	ug/g	104	<2.40E-04	8.58	13.6	11.09	45.2	108	0.454	n/a	c
S09V000632		S	14798-03-9	Ammonium	ug/g	100	<0.0120	2.49	1.94	2.215	25.2	98.9	0.470	n/a	J
S09V000634		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.28E-07	<3.60E-07	n/a	n/a	n/a	n/a	3.60E-07	n/a	U
S09V000634		E	14596-10-2	Americium-241	uCi/g	98.3	<1.07E-06	<9.00E-07	n/a	n/a	n/a	n/a	9.00E-07	n/a	U
S09V000634		E	15510-73-3	Curium-242	uCi/g	n/a	<4.28E-07	<3.60E-07	n/a	n/a	n/a	n/a	3.60E-07	n/a	U
S09V000634		E	13981-37-8	Nickel-63	uCi/g	91.3	<9.43E-05	<8.44E-05	n/a	n/a	n/a	n/a	8.44E-05	n/a	U
S09V000634		E	PU-239/240	Plutonium-239/240	uCi/g	105	<7.16E-07	<5.70E-07	n/a	n/a	n/a	n/a	5.70E-07	n/a	U
S09V000634		E	13981-16-3	Plutonium-238	uCi/g	n/a	<7.16E-07	<5.70E-07	n/a	n/a	n/a	n/a	5.70E-07	n/a	U
S09V000634		E	15758-45-9	Selenium-79	uCi/g	n/a	5.23E-06	2.84E-06	n/a	n/a	n/a	n/a	1.43E-06	-198.99	BJ
S09V000634		E	SR-89/90	Strontium-89/90	uCi/g	98.9	<1.89E-06	2.20E-06	n/a	n/a	n/a	n/a	1.91E-06	134.64	J
S09V001348		W	16984-48-8	Fluoride	ug/g	98.7	<0.0805	1.91	1.83	1.87	4.38	100	0.0201	n/a	
S09V001348		W	666-14-8	Glycolate	ug/g	101	<0.468	<0.117	<0.117	n/a	n/a	102	0.117	n/a	U
S09V001348		W	71-50-1	Acetate	ug/g	96.1	<0.302	24.5	11.3	17.9	73.9	95.0	0.0753	n/a	c
S09V001348		W	12311-97-6	Formate	ug/g	99.4	<0.234	0.977	0.488	.7325	66.7	100	0.0582	n/a	J
S09V001348		W	16887-00-6	Chloride	ug/g	98.7	<0.499	1.43	1.27	1.35	11.9	99.5	0.124	n/a	
S09V001348		W	14797-65-0	Nitrite	ug/g	98.7	<0.960	5.16	2.18	3.67	81.4	99.4	0.239	n/a	c
S09V001348		W	14808-79-8	Sulfate	ug/g	101	<0.935	9.57	6.70	8.135	35.3	99.9	0.233	n/a	c
S09V001348		W	338-70-5	Oxalate	ug/g	99.9	<1.16	2.22	1.00	1.61	75.5	98.6	0.288	n/a	J
S09V001348		W	14797-55-8	Nitrate	ug/g	97.4	<1.04	8.08	4.83	6.455	50.3	98.3	0.259	n/a	c
S09V001348		W	14265-44-2	Phosphate	ug/g	98.0	<0.835	9.71	10.0	9.855	2.98	99.2	0.208	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH1
Sample Depth: 5-7

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001551		A	14133-76-7	Technetium-99	ug/g	106	<6.00E-06	<1.13E-03	<1.12E-03	n/a	n/a	99.2	1.13E-03	n/a	U
S09V001551		A	SN-117	Tin-117	ug/g	106	<2.20E-04	<0.0413	<0.0409	n/a	n/a	80.9	0.0413	n/a	U
S09V001551		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.51E-04	<7.44E-04	n/a	n/a	n/a	7.51E-04	n/a	U
S09V001565		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.63E-05	<2.69E-05	n/a	n/a	n/a	2.63E-05	n/a	U
S09V001565		A	TH-232	Thorium-232	ug/g	96.8	<3.40E-06	3.25	3.48	3.365	6.87	94.3	6.40E-04	n/a	
S09V001565		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	7.79E-05	1.61E-04	.00011945	69.4	n/a	3.76E-05	n/a	J
S09V001565		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	9.22E-05	5.53E-05	.00007375	50.0	n/a	1.88E-05	n/a	J
S09V001565		A	15117-96-1	Uranium-235	ug/g	90.7	<2.20E-07	9.62E-03	9.04E-03	.00933	6.13	91.4	4.14E-05	n/a	
S09V001565		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	3.03E-04	3.03E-04	.000303	7.46E-03	n/a	1.50E-05	n/a	
S09V001565		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.99E-04	<2.03E-04	n/a	n/a	107	1.99E-04	n/a	U
S09V001565		A	U-238	Uranium-238	ug/g	97.4	<1.10E-05	1.31	1.25	1.28	4.53	96.5	2.07E-03	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH3
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000642			%WATERA	%WATER-APD	%	n/a	n/a	7.354	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000642			57-12-5	Cyanide	ug/g	108	<0.0370	<4.47	n/a	n/a	n/a	n/a	4.47	n/a	U
S09V000642			7439-97-6	Mercury	ug/g	104	<1.00E-04	<0.0108	n/a	n/a	n/a	n/a	0.0108	n/a	U
S09V000642			PH	pH	unitless	n/a	n/a	9.60	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000642			18496-25-8	Sulfide	ug/g	98.8	<0.180	27.8	n/a	n/a	n/a	n/a	6.60	n/a	J
S09V000644			10198-40-0	Cobalt-60	uCi/g	103	<1.93E-07	<2.04E-07	n/a	n/a	n/a	n/a	2.04E-07	n/a	U
S09V000644			14234-35-6	Antimony-125	uCi/g	n/a	<5.25E-07	<5.06E-07	n/a	n/a	n/a	n/a	5.06E-07	n/a	U
S09V000644			10045-97-3	Cesium-137	uCi/g	106	<2.39E-07	3.32E-07	n/a	n/a	n/a	n/a	2.14E-07	41.14	J
S09V000644			14683-23-9	Europium-152	uCi/g	n/a	<1.02E-06	<9.58E-07	n/a	n/a	n/a	n/a	9.58E-07	n/a	U
S09V000644			15585-10-1	Europium-154	uCi/g	n/a	<6.53E-07	<6.31E-07	n/a	n/a	n/a	n/a	6.31E-07	n/a	U
S09V000644			14391-16-3	Europium-155	uCi/g	n/a	<4.01E-07	<4.20E-07	n/a	n/a	n/a	n/a	4.20E-07	n/a	U
S09V000644			15046-84-1	Iodine-129	uCi/g	95.6	1.59E-06	<2.59E-07	n/a	n/a	n/a	n/a	2.59E-07	n/a	U
S09V000645		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	62.9	<77.4	<78.6	n/a	n/a	n/a	n/a	78.6	n/a	U
S09V000645		O	95-50-1	1,2-Dichlorobenzene	ug/kg	n/a	<101	<102	n/a	n/a	n/a	n/a	102	n/a	U
S09V000645		O	106-46-7	1,4-Dichlorobenzene	ug/kg	61.5	<113	<115	n/a	n/a	n/a	n/a	115	n/a	U
S09V000645		O	121-14-2	2,4-Dinitrotoluene	ug/kg	73.7	<38.1	<38.7	n/a	n/a	n/a	n/a	38.7	n/a	U
S09V000645		O	95-95-4	2,4,5-Trichlorophenol	ug/kg	n/a	<44.0	<44.7	n/a	n/a	n/a	n/a	44.7	n/a	U
S09V000645		O	88-06-2	2,4,6-Trichlorophenol	ug/kg	n/a	<49.5	<50.3	n/a	n/a	n/a	n/a	50.3	n/a	U
S09V000645		O	95-48-7	2-Methylphenol	ug/kg	n/a	<57.5	<58.4	n/a	n/a	n/a	n/a	58.4	n/a	U
S09V000645		O	88-75-5	2-Nitrophenol	ug/kg	n/a	<53.7	<54.5	n/a	n/a	n/a	n/a	54.5	n/a	U
S09V000645		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<52.2	n/a	n/a	n/a	n/a	52.2	n/a	U
S09V000645		O	83-32-9	Acenaphthene	ug/kg	69.4	<17.6	<17.9	n/a	n/a	n/a	n/a	17.9	n/a	U
S09V000645		O	56-55-3	Benzo(a)anthracene	ug/kg	n/a	<37.8	<38.4	n/a	n/a	n/a	n/a	38.4	n/a	U
S09V000645		O	205-99-2	Benzo(b)fluoranthene	ug/kg	n/a	<48.9	<49.6	n/a	n/a	n/a	n/a	49.6	n/a	U
S09V000645		O	50-32-8	Benzo(a)pyrene	ug/kg	n/a	<41.2	<41.8	n/a	n/a	n/a	n/a	41.8	n/a	U
S09V000645		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	<599	n/a	n/a	n/a	n/a	599	n/a	U
S09V000645		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<39.7	n/a	n/a	n/a	n/a	39.7	n/a	U
S09V000645		O	85-68-7	Butylbenzylphthalate	ug/kg	n/a	<50.0	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH3
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000645		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	68.2	<43.2	<43.9	n/a	n/a	n/a	n/a	43.9	n/a	U
S09V000645		O	95-57-8	2-Chlorophenol	ug/kg	61.1	<66.5	<67.5	n/a	n/a	n/a	n/a	67.5	n/a	U
S09V000645		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<82.6	n/a	n/a	n/a	n/a	82.6	n/a	U
S09V000645		O	53-70-3	Dibenz[a,h]anthracene	ug/kg	n/a	<51.1	<51.9	n/a	n/a	n/a	n/a	51.9	n/a	U
S09V000645		O	84-74-2	Di-n-butylphthalate	ug/kg	n/a	<562	<571	n/a	n/a	n/a	n/a	571	n/a	U
S09V000645		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<48.4	n/a	n/a	n/a	n/a	48.4	n/a	U
S09V000645		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	57.6	<58.1	<59.0	n/a	n/a	n/a	n/a	59.0	n/a	U
S09V000645		O	206-44-0	Fluoranthene	ug/kg	n/a	<35.4	<35.9	n/a	n/a	n/a	n/a	35.9	n/a	U
S09V000645		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<70.8	n/a	n/a	n/a	n/a	70.8	n/a	U
S09V000645		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<114	n/a	n/a	n/a	n/a	114	n/a	U
S09V000645		O	193-39-5	Indeno(1,2,3-cd)pyrene	ug/kg	n/a	<51.0	<51.8	n/a	n/a	n/a	n/a	51.8	n/a	U
S09V000645		O	108-95-2	Phenol	ug/kg	62.8	<59.4	<60.3	n/a	n/a	n/a	n/a	60.3	n/a	U
S09V000645		O	91-20-3	Naphthalene	ug/kg	n/a	<62.6	<63.6	n/a	n/a	n/a	n/a	63.6	n/a	U
S09V000645		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<65.6	n/a	n/a	n/a	n/a	65.6	n/a	U
S09V000645		O	100-02-7	4-Nitrophenol	ug/kg	75.6	<52.6	<53.4	n/a	n/a	n/a	n/a	53.4	n/a	U
S09V000645		O	87-86-5	Pentachlorophenol	ug/kg	78.1	<37.5	<38.1	n/a	n/a	n/a	n/a	38.1	n/a	U
S09V000645		O	129-00-0	Pyrene	ug/kg	79.2	<62.9	<63.9	n/a	n/a	n/a	n/a	63.9	n/a	U
S09V000645		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<66.0	n/a	n/a	n/a	n/a	66.0	n/a	U
S09V000645		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<109	n/a	n/a	n/a	n/a	109	n/a	U
S09V000645		O	128-37-0	BHT	ug/kg	n/a	<236	<239	n/a	n/a	n/a	n/a	239	n/a	U
S09V000645		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<185	n/a	n/a	n/a	n/a	185	n/a	U
S09V000645		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V000645		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<568	n/a	n/a	n/a	n/a	568	n/a	U
S09V000645		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<194	n/a	n/a	n/a	n/a	194	n/a	U
S09V000645		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<467	n/a	n/a	n/a	n/a	467	n/a	U
S09V000646		W	14762-75-5	Carbon-14	uCi/g	97.6	<9.60E-05	<5.13E-05	n/a	n/a	n/a	n/a	5.13E-05	n/a	U
S09V000646		W	10028-17-8	Tritium	uCi/g	88.4	<2.93E-04	3.08E-04	n/a	n/a	n/a	n/a	2.86E-04	88.1	J
S09V000647		A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	5.83E+03	n/a	n/a	n/a	n/a	5.70	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH3
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000647		A	7440-39-3	Barium	ug/g	94.1	<3.00E-03	85.4	n/a	n/a	n/a	n/a	0.570	n/a	
S09V000647		A	7440-41-7	Beryllium	ug/g	96.5	<1.00E-03	<0.190	n/a	n/a	n/a	n/a	0.190	n/a	U
S09V000647		A	7440-70-2	Calcium	ug/g	84.0	<0.0500	5.86E+03	n/a	n/a	n/a	n/a	9.51	n/a	
S09V000647		A	7440-45-1	Cerium	ug/g	98.3	<0.0300	26.1	n/a	n/a	n/a	n/a	5.70	n/a	J
S09V000647		A	7440-48-4	Cobalt	ug/g	91.0	<0.0100	8.17	n/a	n/a	n/a	n/a	1.90	n/a	J
S09V000647		A	7440-47-3	Chromium	ug/g	91.0	<5.00E-03	4.47	n/a	n/a	n/a	n/a	0.951	n/a	
S09V000647		A	7440-50-8	Copper	ug/g	93.6	<5.00E-03	11.9	n/a	n/a	n/a	n/a	0.951	n/a	
S09V000647		A	7440-53-1	Europium	ug/g	94.4	<5.00E-03	4.52	n/a	n/a	n/a	n/a	0.951	n/a	J
S09V000647		A	7439-89-6	Iron	ug/g	90.5	<5.00E-03	2.00E+04	n/a	n/a	n/a	n/a	0.951	n/a	
S09V000647		A	7440-09-7	Potassium	ug/g	91.7	<0.500	939	n/a	n/a	n/a	n/a	95.1	n/a	Jb
S09V000647		A	7439-91-0	Lanthanum	ug/g	93.7	<3.00E-03	11.2	n/a	n/a	n/a	n/a	0.570	n/a	
S09V000647		A	7439-93-2	Lithium	ug/g	94.7	<3.00E-03	5.63	n/a	n/a	n/a	n/a	0.570	n/a	J
S09V000647		A	7439-95-4	Magnesium	ug/g	86.9	<0.0500	3.59E+03	n/a	n/a	n/a	n/a	9.51	n/a	
S09V000647		A	7439-96-5	Manganese	ug/g	90.0	<3.00E-03	346	n/a	n/a	n/a	n/a	0.570	n/a	
S09V000647		A	7439-98-7	Molybdenum	ug/g	92.3	<0.0200	<3.80	n/a	n/a	n/a	n/a	3.80	n/a	U
S09V000647		A	7440-23-5	Sodium	ug/g	93.6	<0.100	413	n/a	n/a	n/a	n/a	19.0	n/a	b
S09V000647		A	7440-00-8	Neodymium	ug/g	95.4	<0.0100	10.5	n/a	n/a	n/a	n/a	1.90	n/a	J
S09V000647		A	7723-14-0	Phosphorus	ug/g	92.0	<0.0500	797	n/a	n/a	n/a	n/a	9.51	n/a	
S09V000647		A	7440-18-8	Ruthenium	ug/g	88.1	<0.0300	15.0	n/a	n/a	n/a	n/a	5.70	n/a	J
S09V000647		A	7704-34-9	Sulfur	ug/g	88.1	<0.100	166	n/a	n/a	n/a	n/a	19.0	n/a	J
S09V000647		A	7440-21-3	Silicon	ug/g	88.7	<0.0300	779	n/a	n/a	n/a	n/a	5.70	n/a	
S09V000647		A	7440-24-6	Strontium	ug/g	92.7	<3.00E-03	27.2	n/a	n/a	n/a	n/a	0.570	n/a	
S09V000647		A	7440-25-7	Tantalum	ug/g	92.4	<0.0500	11.6	n/a	n/a	n/a	n/a	9.51	n/a	Jb
S09V000647		A	7440-32-6	Titanium	ug/g	92.2	<5.00E-03	1.92E+03	n/a	n/a	n/a	n/a	0.951	n/a	b
S09V000647		A	7440-61-1	Uranium	ug/g	104	<0.100	<19.0	n/a	n/a	n/a	n/a	19.0	n/a	U
S09V000647		A	7440-65-5	Yttrium	ug/g	90.9	<2.00E-03	9.56	n/a	n/a	n/a	n/a	0.380	n/a	
S09V000647		A	7440-66-6	Zinc	ug/g	88.0	5.27E-03	305	n/a	n/a	n/a	n/a	0.951	n/a	
S09V000647		A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	17.5	n/a	n/a	n/a	n/a	0.951	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH3
Sample Depth: 10-12

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000647	A	7440-22-4	Silver	ug/g	108	<1.60E-04	0.100	n/a	n/a	n/a	n/a	0.0304	n/a	J
S09V000647	A	7440-38-2	Arsenic	ug/g	102	<8.40E-04	3.83	n/a	n/a	n/a	n/a	0.160	n/a	
S09V000647	A	7440-43-9	Cadmium	ug/g	103	<6.00E-05	0.145	n/a	n/a	n/a	n/a	0.0114	n/a	
S09V000647	A	7439-92-1	Lead	ug/g	105	<6.20E-04	5.62	n/a	n/a	n/a	n/a	0.118	n/a	
S09V000647	A	7440-36-0	Antimony	ug/g	105	<8.80E-04	<0.167	n/a	n/a	n/a	n/a	0.167	n/a	U
S09V000647	A	7782-49-2	Selenium	ug/g	106	3.84E-03	<0.232	n/a	n/a	n/a	n/a	0.232	n/a	U
S09V000647	A	7440-28-0	Thallium	ug/g	103	<6.00E-05	0.0775	n/a	n/a	n/a	n/a	0.0114	n/a	J
S09V000647	A	7440-62-2	Vanadium	ug/g	100	<4.80E-04	58.4	n/a	n/a	n/a	n/a	0.913	n/a	
S09V000647	A	7440-02-0	Nickel	ug/g	104	<2.40E-04	9.11	n/a	n/a	n/a	n/a	0.456	n/a	c
S09V000648	S	14798-03-9	Ammonium	ug/g	100	<0.0120	1.79	n/a	n/a	n/a	n/a	0.471	n/a	J
S09V000650	E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.28E-07	<4.20E-07	n/a	n/a	n/a	n/a	4.20E-07	n/a	U
S09V000650	E	14596-10-2	Americium-241	uCi/g	98.3	<1.07E-06	<1.05E-06	n/a	n/a	n/a	n/a	1.05E-06	n/a	U
S09V000650	E	15510-73-3	Curium-242	uCi/g	n/a	<4.28E-07	<4.20E-07	n/a	n/a	n/a	n/a	4.20E-07	n/a	U
S09V000650	E	13981-37-8	Nickel-63	uCi/g	91.3	<9.43E-05	8.50E-05	n/a	n/a	n/a	n/a	4.68E-05	75	J
S09V000650	E	PU-239/240	Plutonium-239/240	uCi/g	105	<7.16E-07	<5.69E-07	n/a	n/a	n/a	n/a	5.69E-07	n/a	U
S09V000650	E	13981-16-3	Plutonium-238	uCi/g	n/a	<7.16E-07	<5.69E-07	n/a	n/a	n/a	n/a	5.69E-07	n/a	U
S09V000650	E	15758-45-9	Selenium-79	uCi/g	n/a	5.23E-06	4.69E-06	n/a	n/a	n/a	n/a	1.52E-06	177.27	BJ
S09V000650	E	SR-89/90	Strontium-89/90	uCi/g	98.9	<1.89E-06	<3.44E-06	n/a	n/a	n/a	n/a	3.44E-06	n/a	U
S09V001349	W	16984-48-8	Fluoride	ug/g	98.7	<0.0805	1.97	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001349	W	666-14-8	Glycolate	ug/g	101	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001349	W	71-50-1	Acetate	ug/g	96.1	<0.302	0.791	n/a	n/a	n/a	n/a	0.0754	n/a	Jc
S09V001349	W	12311-97-6	Formate	ug/g	99.4	<0.234	0.407	n/a	n/a	n/a	n/a	0.0583	n/a	J
S09V001349	W	16887-00-6	Chloride	ug/g	98.7	<0.499	1.16	n/a	n/a	n/a	n/a	0.125	n/a	J
S09V001349	W	14797-65-0	Nitrite	ug/g	98.7	<0.960	4.37	n/a	n/a	n/a	n/a	0.240	n/a	c
S09V001349	W	14808-79-8	Sulfate	ug/g	101	<0.935	10.1	n/a	n/a	n/a	n/a	0.233	n/a	c
S09V001349	W	338-70-5	Oxalate	ug/g	99.9	<1.16	0.954	n/a	n/a	n/a	n/a	0.288	n/a	J
S09V001349	W	14797-55-8	Nitrate	ug/g	97.4	<1.04	5.72	n/a	n/a	n/a	n/a	0.260	n/a	c
S09V001349	W	14265-44-2	Phosphate	ug/g	98.0	<0.835	4.71	n/a	n/a	n/a	n/a	0.208	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH3
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001552		A	14133-76-7	Technetium-99	ug/g	106	<6.00E-06	<1.08E-03	n/a	n/a	n/a	n/a	1.08E-03	n/a	U
S09V001552		A	SN-117	Tin-117	ug/g	106	<2.20E-04	<0.0396	n/a	n/a	n/a	n/a	0.0396	n/a	U
S09V001552		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.19E-04	n/a	n/a	n/a	n/a	7.19E-04	n/a	U
S09V001568		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.61E-05	n/a	n/a	n/a	n/a	2.61E-05	n/a	U
S09V001568		A	TH-232	Thorium-232	ug/g	96.8	<3.40E-06	3.59	n/a	n/a	n/a	n/a	6.34E-04	n/a	
S09V001568		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.75E-04	n/a	n/a	n/a	n/a	3.73E-05	n/a	J
S09V001568		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	2.24E-04	n/a	n/a	n/a	n/a	1.87E-05	n/a	
S09V001568		A	15117-96-1	Uranium-235	ug/g	90.7	<2.20E-07	0.0197	n/a	n/a	n/a	n/a	4.10E-05	n/a	
S09V001568		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	8.68E-04	n/a	n/a	n/a	n/a	1.49E-05	n/a	
S09V001568		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.98E-04	n/a	n/a	n/a	n/a	1.98E-04	n/a	U
S09V001568		A	U-238	Uranium-238	ug/g	97.4	<1.10E-05	2.61	n/a	n/a	n/a	n/a	2.05E-03	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH4
Sample Depth: 132-134.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000652			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V000652			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.306	n/a	n/a	n/a	n/a	0.306	n/a	U
S09V000652			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.403	n/a	n/a	n/a	n/a	0.403	n/a	U
S09V000652			75-35-4	1,1-Dichloroethene	ug/kg	100	<0.340	<0.274	n/a	n/a	n/a	n/a	0.274	n/a	U
S09V000652			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S09V000652			71-36-3	1-Butanol	ug/kg	119	<15.5	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
S09V000652			108-10-1	Hexone	ug/kg	123	<1.76	<1.42	n/a	n/a	n/a	n/a	1.42	n/a	U
S09V000652			67-64-1	Acetone	ug/kg	126	6.83	6.69	n/a	n/a	n/a	n/a	3.53	n/a	BJ
S09V000652			71-43-2	Benzene	ug/kg	96.4	<0.320	<0.258	n/a	n/a	n/a	n/a	0.258	n/a	U
S09V000652			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.242	n/a	n/a	n/a	n/a	0.242	n/a	U
S09V000652			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.242	n/a	n/a	n/a	n/a	0.242	n/a	U
S09V000652			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S09V000652			108-90-7	Chlorobenzene	ug/kg	98.2	<0.220	<0.177	n/a	n/a	n/a	n/a	0.177	n/a	U
S09V000652			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V000652			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S09V000652			78-93-3	2-Butanone	ug/kg	119	<2.66	<2.15	n/a	n/a	n/a	n/a	2.15	n/a	U
S09V000652			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.274	n/a	n/a	n/a	n/a	0.274	n/a	U
S09V000652			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.323	n/a	n/a	n/a	n/a	0.323	n/a	U
S09V000652			108-88-3	Toluene	ug/kg	103	0.386	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V000652			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.113	n/a	n/a	n/a	n/a	0.113	n/a	U
S09V000652			79-01-6	Trichloroethene	ug/kg	92.9	<0.300	<0.242	n/a	n/a	n/a	n/a	0.242	n/a	U
S09V000652			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.516	n/a	n/a	n/a	n/a	0.516	n/a	U
S09V000652			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.210	n/a	n/a	n/a	n/a	0.210	n/a	U
S09V000652			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.290	n/a	n/a	n/a	n/a	0.290	n/a	U
S09V000652			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.403	n/a	n/a	n/a	n/a	0.403	n/a	U
S09V000652			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.27	n/a	n/a	n/a	n/a	1.27	n/a	U
S09V000652			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.784	n/a	n/a	n/a	n/a	0.784	n/a	U
S09V000652			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.714	n/a	n/a	n/a	n/a	0.714	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH4
Sample Depth: 132-134.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000652			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.56	n/a	n/a	n/a	n/a	1.56	n/a	U
S09V000652			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V000652			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.339	n/a	n/a	n/a	n/a	0.339	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH6
Sample Depth: 132-134.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000658			%WATERA	%WATER-APD	%	n/a	n/a	6.652	6.541	6.5965	1.683	n/a	n/a	n/a	
S09V000658			57-12-5	Cyanide	ug/g	108	<0.0370	<5.43	n/a	n/a	n/a	n/a	5.43	n/a	U
S09V000658			7439-97-6	Mercury	ug/g	104	<1.00E-04	<0.0106	n/a	n/a	n/a	n/a	0.0106	n/a	U
S09V000658			PH	pH	unitless	n/a	n/a	8.88	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000658			18496-25-8	Sulfide	ug/g	98.8	<0.180	8.18	n/a	n/a	n/a	n/a	6.63	n/a	J
S09V000660			10198-40-0	Cobalt-60	uCi/g	103	<1.93E-07	<2.33E-07	<2.26E-07	n/a	n/a	n/a	2.33E-07	n/a	U
S09V000660			14234-35-6	Antimony-125	uCi/g	n/a	<5.25E-07	<6.19E-07	<6.18E-07	n/a	n/a	n/a	6.19E-07	n/a	U
S09V000660			10045-97-3	Cesium-137	uCi/g	106	<2.39E-07	<2.92E-07	<2.78E-07	n/a	n/a	n/a	2.92E-07	n/a	U
S09V000660			14683-23-9	Europium-152	uCi/g	n/a	<1.02E-06	<1.15E-06	<1.10E-06	n/a	n/a	n/a	1.15E-06	n/a	U
S09V000660			15585-10-1	Europium-154	uCi/g	n/a	<6.53E-07	<7.84E-07	<7.64E-07	n/a	n/a	n/a	7.84E-07	n/a	U
S09V000660			14391-16-3	Europium-155	uCi/g	n/a	<4.01E-07	<4.86E-07	<4.55E-07	n/a	n/a	n/a	4.86E-07	n/a	U
S09V000660			15046-84-1	Iodine-129	uCi/g	95.6	1.59E-06	<1.76E-07	<2.16E-07	n/a	n/a	n/a	1.76E-07	n/a	U
S09V000661		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	57.5	<77.4	<76.5	n/a	n/a	n/a	55.1	76.5	n/a	U
S09V000661		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
S09V000661		O	106-46-7	1,4-Dichlorobenzene	ug/kg	54.8	<113	<112	n/a	n/a	n/a	50.4	112	n/a	U
S09V000661		O	121-14-2	2,4-Dinitrotoluene	ug/kg	66.9	<38.1	<37.7	n/a	n/a	n/a	74.0	37.7	n/a	U
S09V000661		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
S09V000661		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
S09V000661		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
S09V000661		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
S09V000661		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<50.8	n/a	n/a	n/a	n/a	50.8	n/a	U
S09V000661		O	83-32-9	Acenaphthene	ug/kg	63.8	<17.6	<17.4	n/a	n/a	n/a	68.0	17.4	n/a	U
S09V000661		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
S09V000661		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
S09V000661		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
S09V000661		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	673	n/a	n/a	n/a	n/a	583	n/a	J
S09V000661		O	207-08-9	Benzo(k)fluoranthene	ug/kg	n/a	<39.1	<38.6	n/a	n/a	n/a	n/a	38.6	n/a	U
S09V000661		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

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH6
Sample Depth: 132-134.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000661		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	62.4	<43.2	<42.7	n/a	n/a	n/a	69.9	42.7	n/a	U
S09V000661		O	95-57-8	2-Chlorophenol	ug/kg	57.7	<66.5	<65.7	n/a	n/a	n/a	57.1	65.7	n/a	U
S09V000661		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
S09V000661		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
S09V000661		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
S09V000661		O	117-84-0	Di-n-octylphthalate	ug/kg	n/a	<47.7	<47.1	n/a	n/a	n/a	n/a	47.1	n/a	U
S09V000661		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	52.0	<58.1	<57.4	n/a	n/a	n/a	51.7	57.4	n/a	U
S09V000661		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
S09V000661		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
S09V000661		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<110	n/a	n/a	n/a	n/a	110	n/a	U
S09V000661		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
S09V000661		O	108-95-2	Phenol	ug/kg	57.9	<59.4	<58.7	n/a	n/a	n/a	57.9	58.7	n/a	U
S09V000661		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
S09V000661		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<63.8	n/a	n/a	n/a	n/a	63.8	n/a	U
S09V000661		O	100-02-7	4-Nitrophenol	ug/kg	71.5	<52.6	<52.0	n/a	n/a	n/a	78.3	52.0	n/a	U
S09V000661		O	87-86-5	Pentachlorophenol	ug/kg	72.9	<37.5	<37.1	n/a	n/a	n/a	86.3	37.1	n/a	U
S09V000661		O	129-00-0	Pyrene	ug/kg	73.0	<62.9	<62.2	n/a	n/a	n/a	83.5	62.2	n/a	U
S09V000661		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.2	n/a	n/a	n/a	n/a	64.2	n/a	U
S09V000661		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000661		O	128-37-0	BHT	ug/kg	n/a	<236	<233	n/a	n/a	n/a	n/a	233	n/a	U
S09V000661		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<180	n/a	n/a	n/a	n/a	180	n/a	U
S09V000661		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<105	n/a	n/a	n/a	n/a	105	n/a	U
S09V000661		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<553	n/a	n/a	n/a	n/a	553	n/a	U
S09V000661		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<189	n/a	n/a	n/a	n/a	189	n/a	U
S09V000661		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<455	n/a	n/a	n/a	n/a	455	n/a	U
S09V000662		W	14762-75-5	Carbon-14	uCi/g	97.6	<9.60E-05	<5.28E-05	n/a	n/a	n/a	n/a	5.28E-05	n/a	U
S09V000662		W	10028-17-8	Tritium	uCi/g	88.4	<2.93E-04	<3.68E-04	n/a	n/a	n/a	n/a	3.68E-04	n/a	U
S09V000663		A	7429-90-5	Aluminum	ug/g	85.8	<0.0300	5.85E+03	n/a	n/a	n/a	n/a	5.59	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH6
Sample Depth: 132-134.5

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000663	A	7440-39-3	Barium	ug/g	94.1	<3.00E-03	54.1	n/a	n/a	n/a	n/a	0.559	n/a	
S09V000663	A	7440-41-7	Beryllium	ug/g	96.5	<1.00E-03	0.218	n/a	n/a	n/a	n/a	0.186	n/a	J
S09V000663	A	7440-70-2	Calcium	ug/g	84.0	<0.0500	7.88E+03	n/a	n/a	n/a	n/a	9.31	n/a	
S09V000663	A	7440-45-1	Cerium	ug/g	98.3	<0.0300	33.1	n/a	n/a	n/a	n/a	5.59	n/a	J
S09V000663	A	7440-48-4	Cobalt	ug/g	91.0	<0.0100	4.17	n/a	n/a	n/a	n/a	1.86	n/a	J
S09V000663	A	7440-47-3	Chromium	ug/g	91.0	<5.00E-03	15.0	n/a	n/a	n/a	n/a	0.931	n/a	
S09V000663	A	7440-50-8	Copper	ug/g	93.6	<5.00E-03	8.72	n/a	n/a	n/a	n/a	0.931	n/a	J
S09V000663	A	7440-53-1	Europium	ug/g	94.4	<5.00E-03	3.76	n/a	n/a	n/a	n/a	0.931	n/a	J
S09V000663	A	7439-89-6	Iron	ug/g	90.5	<5.00E-03	1.33E+04	n/a	n/a	n/a	n/a	0.931	n/a	
S09V000663	A	7440-09-7	Potassium	ug/g	91.7	<0.500	1.12E+03	n/a	n/a	n/a	n/a	93.1	n/a	b
S09V000663	A	7439-91-0	Lanthanum	ug/g	93.7	<3.00E-03	17.3	n/a	n/a	n/a	n/a	0.559	n/a	
S09V000663	A	7439-93-2	Lithium	ug/g	94.7	<3.00E-03	8.21	n/a	n/a	n/a	n/a	0.559	n/a	
S09V000663	A	7439-95-4	Magnesium	ug/g	86.9	<0.0500	4.00E+03	n/a	n/a	n/a	n/a	9.31	n/a	
S09V000663	A	7439-96-5	Manganese	ug/g	90.0	<3.00E-03	253	n/a	n/a	n/a	n/a	0.559	n/a	
S09V000663	A	7439-98-7	Molybdenum	ug/g	92.3	<0.0200	<3.73	n/a	n/a	n/a	n/a	3.73	n/a	U
S09V000663	A	7440-23-5	Sodium	ug/g	93.6	<0.100	189	n/a	n/a	n/a	n/a	18.6	n/a	b
S09V000663	A	7440-00-8	Neodymium	ug/g	95.4	<0.0100	10.9	n/a	n/a	n/a	n/a	1.86	n/a	J
S09V000663	A	7723-14-0	Phosphorus	ug/g	92.0	<0.0500	365	n/a	n/a	n/a	n/a	9.31	n/a	
S09V000663	A	7440-18-8	Ruthenium	ug/g	88.1	<0.0300	8.17	n/a	n/a	n/a	n/a	5.59	n/a	J
S09V000663	A	7704-34-9	Sulfur	ug/g	88.1	<0.100	52.8	n/a	n/a	n/a	n/a	18.6	n/a	J
S09V000663	A	7440-21-3	Silicon	ug/g	88.7	<0.0300	521	n/a	n/a	n/a	n/a	5.59	n/a	
S09V000663	A	7440-24-6	Strontium	ug/g	92.7	<3.00E-03	35.9	n/a	n/a	n/a	n/a	0.559	n/a	
S09V000663	A	7440-25-7	Tantalum	ug/g	92.4	<0.0500	13.1	n/a	n/a	n/a	n/a	9.31	n/a	Jb
S09V000663	A	7440-32-6	Titanium	ug/g	92.2	<5.00E-03	735	n/a	n/a	n/a	n/a	0.931	n/a	b
S09V000663	A	7440-61-1	Uranium	ug/g	104	<0.100	<18.6	n/a	n/a	n/a	n/a	18.6	n/a	U
S09V000663	A	7440-65-5	Yttrium	ug/g	90.9	<2.00E-03	4.80	n/a	n/a	n/a	n/a	0.373	n/a	
S09V000663	A	7440-66-6	Zinc	ug/g	88.0	5.27E-03	30.3	n/a	n/a	n/a	n/a	0.931	n/a	
S09V000663	A	7440-67-7	Zirconium	ug/g	85.6	<5.00E-03	6.10	n/a	n/a	n/a	n/a	0.931	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH6
Sample Depth: 132-134.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000663		A	7440-22-4	Silver	ug/g	108	<1.60E-04	0.163	n/a	n/a	n/a	n/a	0.0298	n/a	J
S09V000663		A	7440-38-2	Arsenic	ug/g	102	<8.40E-04	3.06	n/a	n/a	n/a	n/a	0.156	n/a	
S09V000663		A	7440-43-9	Cadmium	ug/g	103	<6.00E-05	0.0712	n/a	n/a	n/a	n/a	0.0112	n/a	J
S09V000663		A	7439-92-1	Lead	ug/g	105	<6.20E-04	5.16	n/a	n/a	n/a	n/a	0.116	n/a	
S09V000663		A	7440-36-0	Antimony	ug/g	105	<8.80E-04	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V000663		A	7782-49-2	Selenium	ug/g	106	3.84E-03	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S09V000663		A	7440-28-0	Thallium	ug/g	103	<6.00E-05	0.0838	n/a	n/a	n/a	n/a	0.0112	n/a	J
S09V000663		A	7440-62-2	Vanadium	ug/g	100	<4.80E-04	27.3	n/a	n/a	n/a	n/a	0.894	n/a	
S09V000663		A	7440-02-0	Nickel	ug/g	104	<2.40E-04	12.3	n/a	n/a	n/a	n/a	0.447	n/a	c
S09V000664		S	14798-03-9	Ammonium	ug/g	100	<0.0120	1.44	n/a	n/a	n/a	n/a	0.471	n/a	J
S09V000666		E	CM-243/244	Curium-243/244	uCi/g	n/a	<4.28E-07	<3.91E-07	<4.09E-07	n/a	n/a	n/a	3.91E-07	n/a	U
S09V000666		E	14596-10-2	Americium-241	uCi/g	98.3	<1.07E-06	<9.78E-07	<1.02E-06	n/a	n/a	n/a	9.78E-07	n/a	U
S09V000666		E	15510-73-3	Curium-242	uCi/g	n/a	<4.28E-07	<3.91E-07	<4.09E-07	n/a	n/a	n/a	3.91E-07	n/a	U
S09V000666		E	13981-37-8	Nickel-63	uCi/g	91.3	<9.43E-05	<7.33E-05	<6.12E-05	n/a	n/a	n/a	7.33E-05	n/a	U
S09V000666		E	PU-239/240	Plutonium-239/240	uCi/g	105	<7.16E-07	<6.70E-07	<6.30E-07	n/a	n/a	n/a	6.70E-07	n/a	U
S09V000666		E	13981-16-3	Plutonium-238	uCi/g	n/a	<7.16E-07	<6.70E-07	<6.30E-07	n/a	n/a	n/a	6.70E-07	n/a	U
S09V000666		E	15758-45-9	Selenium-79	uCi/g	n/a	5.23E-06	<1.37E-06	<1.30E-06	n/a	n/a	n/a	1.37E-06	n/a	U
S09V000666		E	SR-89/90	Strontium-89/90	uCi/g	98.9	<1.89E-06	<3.53E-06	<3.30E-06	n/a	n/a	n/a	3.53E-06	n/a	U
S09V001350		W	16984-48-8	Fluoride	ug/g	98.7	<0.0805	0.994	n/a	n/a	n/a	n/a	0.0200	n/a	
S09V001350		W	666-14-8	Glycolate	ug/g	101	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001350		W	71-50-1	Acetate	ug/g	96.1	<0.302	0.135	n/a	n/a	n/a	n/a	0.0751	n/a	Jc
S09V001350		W	12311-97-6	Formate	ug/g	99.4	<0.234	0.216	n/a	n/a	n/a	n/a	0.0581	n/a	J
S09V001350		W	16887-00-6	Chloride	ug/g	98.7	<0.499	22.2	n/a	n/a	n/a	n/a	0.124	n/a	
S09V001350		W	14797-65-0	Nitrite	ug/g	98.7	<0.960	3.26	n/a	n/a	n/a	n/a	0.239	n/a	c
S09V001350		W	14808-79-8	Sulfate	ug/g	101	<0.935	198	n/a	n/a	n/a	n/a	0.233	n/a	c
S09V001350		W	338-70-5	Oxalate	ug/g	99.9	<1.16	<0.287	n/a	n/a	n/a	n/a	0.287	n/a	U
S09V001350		W	14797-55-8	Nitrate	ug/g	97.4	<1.04	20.0	n/a	n/a	n/a	n/a	0.259	n/a	c
S09V001350		W	14265-44-2	Phosphate	ug/g	98.0	<0.835	0.450	n/a	n/a	n/a	n/a	0.208	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090377
Core Number: C6400
Customer Sample ID: B1YTH6
Sample Depth: 132-134.5

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001553		A	14133-76-7	Technetium-99	ug/g	106	<6.00E-06	<1.03E-03	n/a	n/a	n/a	n/a	1.03E-03	n/a	U
S09V001553		A	SN-117	Tin-117	ug/g	106	<2.20E-04	<0.0376	n/a	n/a	n/a	n/a	0.0376	n/a	U
S09V001553		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<6.84E-04	n/a	n/a	n/a	n/a	6.84E-04	n/a	U
S09V001569		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.70E-05	n/a	n/a	n/a	n/a	2.70E-05	n/a	U
S09V001569		A	TH-232	Thorium-232	ug/g	96.8	<3.40E-06	3.58	n/a	n/a	n/a	n/a	6.55E-04	n/a	
S09V001569		A	13968-55-3	Uranium-233	ug/g	n/a	<2.00E-07	1.74E-04	n/a	n/a	n/a	n/a	3.85E-05	n/a	J
S09V001569		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	<1.93E-05	n/a	n/a	n/a	n/a	1.93E-05	n/a	U
S09V001569		A	15117-96-1	Uranium-235	ug/g	90.7	<2.20E-07	3.39E-03	n/a	n/a	n/a	n/a	4.24E-05	n/a	
S09V001569		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	<1.54E-05	n/a	n/a	n/a	n/a	1.54E-05	n/a	U
S09V001569		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<2.04E-04	n/a	n/a	n/a	n/a	2.04E-04	n/a	U
S09V001569		A	U-238	Uranium-238	ug/g	97.4	<1.10E-05	0.500	n/a	n/a	n/a	n/a	2.12E-03	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XV5
Sample Depth: 6-8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000727			%WATERA	%WATER-APD	%	n/a	n/a	7.998	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000727			57-12-5	Cyanide	ug/g	97.5	<0.0370	<4.07	n/a	n/a	n/a	n/a	4.07	n/a	U
S09V000727			7439-97-6	Mercury	ug/g	107	<1.00E-04	<0.0125	n/a	n/a	n/a	n/a	0.0125	n/a	U
S09V000727			PH	pH	unitless	n/a	n/a	9.36	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000727			18496-25-8	Sulfide	ug/g	95.2	<0.180	22.3	26.0	24.15	15.3	107	7.35	n/a	J
S09V000728			10198-40-0	Cobalt-60	uCi/g	104	<2.77E-06	<3.13E-06	n/a	n/a	n/a	n/a	3.13E-06	n/a	U
S09V000728			14234-35-6	Antimony-125	uCi/g	n/a	<6.40E-06	<7.47E-06	n/a	n/a	n/a	n/a	7.47E-06	n/a	U
S09V000728			10045-97-3	Cesium-137	uCi/g	103	<2.99E-06	3.08E-05	n/a	n/a	n/a	n/a	3.23E-06	11.66	
S09V000728			14683-23-9	Europium-152	uCi/g	n/a	<1.36E-05	<1.29E-05	n/a	n/a	n/a	n/a	1.29E-05	n/a	U
S09V000728			15585-10-1	Europium-154	uCi/g	n/a	<8.68E-06	<8.57E-06	n/a	n/a	n/a	n/a	8.57E-06	n/a	U
S09V000728			14391-16-3	Europium-155	uCi/g	n/a	<5.49E-06	<6.70E-06	n/a	n/a	n/a	n/a	6.70E-06	n/a	U
S09V000728			15046-84-1	Iodine-129	uCi/g	111	7.99E-06	<1.97E-07	n/a	n/a	n/a	n/a	1.97E-07	n/a	U
S09V000730		W	14762-75-5	Carbon-14	uCi/g	100	<4.58E-05	<4.63E-05	<6.61E-05	n/a	n/a	98.2	4.63E-05	n/a	U
S09V000730		W	10028-17-8	Tritium	uCi/g	88.6	<2.62E-04	<2.62E-04	<2.59E-04	n/a	n/a	90.0	2.62E-04	n/a	U
S09V000731		A	7440-22-4	Silver	ug/g	113	<1.60E-04	0.207	0.201	.204	2.61	122	0.151	n/a	J
S09V000731		A	7440-38-2	Arsenic	ug/g	109	<8.40E-04	4.80	5.36	5.08	11.1	94.3	0.159	n/a	
S09V000731		A	7440-43-9	Cadmium	ug/g	104	<6.00E-05	0.128	0.106	.117	18.3	89.4	0.0114	n/a	
S09V000731		A	7439-92-1	Lead	ug/g	107	<6.20E-04	7.28	6.82	7.05	6.45	94.2	0.117	n/a	
S09V000731		A	7440-36-0	Antimony	ug/g	112	<8.80E-04	0.174	0.178	.176	1.88	87.7	0.167	n/a	J
S09V000731		A	7782-49-2	Selenium	ug/g	104	<1.22E-03	<0.231	<0.227	n/a	n/a	102	0.231	n/a	U
S09V000731		A	7440-28-0	Thallium	ug/g	99.2	7.66E-05	0.0959	0.110	.10295	13.6	90.9	0.0114	n/a	BJ
S09V000731		A	7440-62-2	Vanadium	ug/g	111	<4.80E-04	78.0	70.5	74.25	10.0	101	0.909	n/a	
S09V000731		A	7440-02-0	Nickel	ug/g	106	<2.40E-04	6.71	7.38	7.045	9.57	93.9	0.0454	n/a	
S09V000732		S	14798-03-9	Ammonium	ug/g	99.7	<0.0120	2.29	n/a	n/a	n/a	n/a	0.466	n/a	J
S09V000733		A	14133-76-7	Technetium-99	ug/g	103	<6.00E-06	<1.08E-03	<1.02E-03	n/a	n/a	103	1.08E-03	n/a	U
S09V000733		A	SN-117	Tin-117	ug/g	99.6	<2.20E-04	<0.0395	<0.0375	n/a	n/a	91.0	0.0395	n/a	U
S09V000733		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.18E-04	<6.82E-04	n/a	n/a	n/a	7.18E-04	n/a	U
S09V000734		E	CM-243/244	Curium-243/244	uCi/g	n/a	<7.40E-07	<7.07E-07	n/a	n/a	n/a	n/a	7.07E-07	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XV5
Sample Depth: 6-8

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000734	E	14596-10-2	Americium-241	uCi/g	102	<1.85E-06	<1.77E-06	n/a	n/a	n/a	n/a	1.77E-06	n/a	U
S09V000734	E	15510-73-3	Curium-242	uCi/g	n/a	<7.40E-07	<7.07E-07	n/a	n/a	n/a	n/a	7.07E-07	n/a	U
S09V000734	E	13981-37-8	Nickel-63	uCi/g	83.2	<9.09E-05	<8.41E-05	n/a	n/a	n/a	n/a	8.41E-05	n/a	U
S09V000734	E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<1.66E-06	<1.11E-06	n/a	n/a	n/a	n/a	1.11E-06	n/a	U
S09V000734	E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.66E-06	<1.11E-06	n/a	n/a	n/a	n/a	1.11E-06	n/a	U
S09V000734	E	15758-45-9	Selenium-79	uCi/g	n/a	9.63E-06	8.69E-06	n/a	n/a	n/a	n/a	2.93E-06	1272.34	BJ
S09V000734	E	SR-89/90	Strontium-89/90	uCi/g	98.9	<4.63E-06	8.66E-05	n/a	n/a	n/a	n/a	4.17E-06	12.8	c
S09V001317	A	7429-90-5	Aluminum	ug/g	90.5	<0.0300	7.60E+03	n/a	n/a	n/a	n/a	5.53	n/a	
S09V001317	A	7440-39-3	Barium	ug/g	94.3	<3.00E-03	82.9	n/a	n/a	n/a	n/a	0.553	n/a	
S09V001317	A	7440-41-7	Beryllium	ug/g	95.6	<1.00E-03	0.315	n/a	n/a	n/a	n/a	0.184	n/a	J
S09V001317	A	7440-70-2	Calcium	ug/g	91.6	0.0856	8.27E+03	n/a	n/a	n/a	n/a	9.21	n/a	
S09V001317	A	7440-45-1	Cerium	ug/g	n/a	<0.0300	25.7	n/a	n/a	n/a	n/a	5.53	n/a	J
S09V001317	A	7440-48-4	Cobalt	ug/g	91.9	<0.0100	8.33	n/a	n/a	n/a	n/a	1.84	n/a	J
S09V001317	A	7440-47-3	Chromium	ug/g	90.9	<5.00E-03	8.70	n/a	n/a	n/a	n/a	0.921	n/a	
S09V001317	A	7440-50-8	Copper	ug/g	93.9	<5.00E-03	12.9	n/a	n/a	n/a	n/a	0.921	n/a	
S09V001317	A	7440-53-1	Europium	ug/g	103	<5.00E-03	<0.921	n/a	n/a	n/a	n/a	0.921	n/a	U
S09V001317	A	7439-89-6	Iron	ug/g	91.3	<5.00E-03	2.49E+04	n/a	n/a	n/a	n/a	0.921	n/a	
S09V001317	A	7440-09-7	Potassium	ug/g	114	<0.500	1.50E+03	n/a	n/a	n/a	n/a	92.1	n/a	b
S09V001317	A	7439-91-0	Lanthanum	ug/g	95.2	<3.00E-03	13.2	n/a	n/a	n/a	n/a	0.553	n/a	
S09V001317	A	7439-93-2	Lithium	ug/g	111	<3.00E-03	9.42	n/a	n/a	n/a	n/a	0.553	n/a	
S09V001317	A	7439-95-4	Magnesium	ug/g	87.3	<0.0500	5.58E+03	n/a	n/a	n/a	n/a	9.21	n/a	
S09V001317	A	7439-96-5	Manganese	ug/g	89.0	<3.00E-03	385	n/a	n/a	n/a	n/a	0.553	n/a	
S09V001317	A	7439-98-7	Molybdenum	ug/g	99.0	<0.0200	<3.68	n/a	n/a	n/a	n/a	3.68	n/a	U
S09V001317	A	7440-23-5	Sodium	ug/g	104	<0.100	474	n/a	n/a	n/a	n/a	18.4	n/a	b
S09V001317	A	7440-00-8	Neodymium	ug/g	97.6	<0.0100	32.0	n/a	n/a	n/a	n/a	1.84	n/a	
S09V001317	A	7723-14-0	Phosphorus	ug/g	99.9	<0.0500	979	n/a	n/a	n/a	n/a	9.21	n/a	
S09V001317	A	7440-05-3	Palladium	ug/g	92.6	<0.100	43.7	n/a	n/a	n/a	n/a	18.4	n/a	BJ
S09V001317	A	7440-10-0	Praseodymium	ug/g	95.0	<0.0100	4.13	n/a	n/a	n/a	n/a	1.84	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XV5
Sample Depth: 6-8

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001317	A	7440-17-7	Rubidium	ug/g	85.4	<1.00	316	n/a	n/a	n/a	n/a	184	n/a	BJXb
S09V001317	A	7704-34-9	Sulfur	ug/g	96.0	<0.100	64.6	n/a	n/a	n/a	n/a	18.4	n/a	J
S09V001317	A	7440-21-3	Silicon	ug/g	51.5	<0.0300	1.12E+03	n/a	n/a	n/a	n/a	5.53	n/a	ab
S09V001317	A	7440-24-6	Strontium	ug/g	94.8	<3.00E-03	30.3	n/a	n/a	n/a	n/a	0.553	n/a	
S09V001317	A	7440-32-6	Titanium	ug/g	98.0	<5.00E-03	2.14E+03	n/a	n/a	n/a	n/a	0.921	n/a	b
S09V001317	A	7440-61-1	Uranium	ug/g	98.2	<0.100	<18.4	n/a	n/a	n/a	n/a	18.4	n/a	U
S09V001317	A	7440-33-7	Tungsten	ug/g	96.9	<0.200	85.2	n/a	n/a	n/a	n/a	36.8	n/a	J
S09V001317	A	7440-65-5	Yttrium	ug/g	93.4	<2.00E-03	11.5	n/a	n/a	n/a	n/a	0.368	n/a	
S09V001317	A	7440-66-6	Zinc	ug/g	89.6	5.57E-03	43.9	n/a	n/a	n/a	n/a	0.921	n/a	
S09V001317	A	7440-67-7	Zirconium	ug/g	90.3	<5.00E-03	20.7	n/a	n/a	n/a	n/a	0.921	n/a	
S09V001317	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.58E-05	n/a	n/a	n/a	n/a	2.58E-05	n/a	U
S09V001317	A	TH-232	Thorium-232	ug/g	100	3.57E-04	3.76	n/a	n/a	n/a	n/a	6.26E-04	n/a	
S09V001317	A	13968-55-3	Uranium-233	ug/g	n/a	7.77E-07	1.68E-04	n/a	n/a	n/a	n/a	3.68E-05	n/a	BJ
S09V001317	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	4.37E-05	n/a	n/a	n/a	n/a	1.84E-05	n/a	J
S09V001317	A	15117-96-1	Uranium-235	ug/g	91.4	3.94E-06	6.30E-03	n/a	n/a	n/a	n/a	4.05E-05	n/a	B
S09V001317	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	1.42E-04	n/a	n/a	n/a	n/a	1.47E-05	n/a	J
S09V001317	A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.95E-04	n/a	n/a	n/a	n/a	1.95E-04	n/a	U
S09V001317	A	U-238	Uranium-238	ug/g	100	5.76E-04	0.890	n/a	n/a	n/a	n/a	2.03E-03	n/a	B

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XV7
Sample Depth: 6-8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000722			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V000722			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.306	n/a	n/a	n/a	n/a	0.306	n/a	U
S09V000722			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.403	n/a	n/a	n/a	n/a	0.403	n/a	U
S09V000722			75-35-4	1,1-Dichloroethene	ug/kg	73.0	<0.340	<0.274	n/a	n/a	n/a	n/a	0.274	n/a	U
S09V000722			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S09V000722			71-36-3	1-Butanol	ug/kg	82.6	<15.5	<12.5	n/a	n/a	n/a	n/a	12.5	n/a	U
S09V000722			108-10-1	Hexone	ug/kg	84.1	<1.76	<1.42	n/a	n/a	n/a	n/a	1.42	n/a	U
S09V000722			67-64-1	Acetone	ug/kg	88.5	<4.38	<3.53	n/a	n/a	n/a	n/a	3.53	n/a	U
S09V000722			71-43-2	Benzene	ug/kg	78.7	<0.320	<0.258	n/a	n/a	n/a	n/a	0.258	n/a	U
S09V000722			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.242	n/a	n/a	n/a	n/a	0.242	n/a	U
S09V000722			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.242	n/a	n/a	n/a	n/a	0.242	n/a	U
S09V000722			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.145	n/a	n/a	n/a	n/a	0.145	n/a	U
S09V000722			108-90-7	Chlorobenzene	ug/kg	79.8	<0.220	<0.177	n/a	n/a	n/a	n/a	0.177	n/a	U
S09V000722			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V000722			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.500	n/a	n/a	n/a	n/a	0.500	n/a	U
S09V000722			78-93-3	2-Butanone	ug/kg	87.6	<2.66	<2.15	n/a	n/a	n/a	n/a	2.15	n/a	U
S09V000722			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.274	n/a	n/a	n/a	n/a	0.274	n/a	U
S09V000722			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.323	n/a	n/a	n/a	n/a	0.323	n/a	U
S09V000722			108-88-3	Toluene	ug/kg	77.8	<0.240	<0.194	n/a	n/a	n/a	n/a	0.194	n/a	U
S09V000722			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.113	n/a	n/a	n/a	n/a	0.113	n/a	U
S09V000722			79-01-6	Trichloroethene	ug/kg	81.3	<0.300	<0.242	n/a	n/a	n/a	n/a	0.242	n/a	U
S09V000722			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.516	n/a	n/a	n/a	n/a	0.516	n/a	U
S09V000722			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.210	n/a	n/a	n/a	n/a	0.210	n/a	U
S09V000722			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.290	n/a	n/a	n/a	n/a	0.290	n/a	U
S09V000722			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.403	n/a	n/a	n/a	n/a	0.403	n/a	U
S09V000722			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.27	n/a	n/a	n/a	n/a	1.27	n/a	U
S09V000722			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.784	n/a	n/a	n/a	n/a	0.784	n/a	U
S09V000722			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.714	n/a	n/a	n/a	n/a	0.714	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XV7
Sample Depth: 6-8

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000722			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.56	n/a	n/a	n/a	n/a	1.56	n/a	U
S09V000722			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.161	n/a	n/a	n/a	n/a	0.161	n/a	U
S09V000722			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.339	n/a	n/a	n/a	n/a	0.339	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XV9
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000740			%WATERA	%WATER-APD	%	n/a	n/a	8.739	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000740			57-12-5	Cyanide	ug/g	97.5	<0.0370	<4.04	<4.03	n/a	n/a	119	4.04	n/a	U
S09V000740			7439-97-6	Mercury	ug/g	107	<1.00E-04	<0.0109	n/a	n/a	n/a	n/a	0.0109	n/a	U
S09V000740			PH	pH	unitless	n/a	n/a	9.34	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000740			18496-25-8	Sulfide	ug/g	95.2	<0.180	20.3	n/a	n/a	n/a	n/a	7.00	n/a	J
S09V000741			10198-40-0	Cobalt-60	uCi/g	103	<1.93E-07	<2.00E-07	n/a	n/a	n/a	n/a	2.00E-07	n/a	U
S09V000741			14234-35-6	Antimony-125	uCi/g	n/a	<5.25E-07	<6.94E-07	n/a	n/a	n/a	n/a	6.94E-07	n/a	U
S09V000741			10045-97-3	Cesium-137	uCi/g	106	<2.39E-07	1.91E-05	n/a	n/a	n/a	n/a	3.47E-07	6.50	
S09V000741			14683-23-9	Europium-152	uCi/g	n/a	<1.02E-06	<9.90E-07	n/a	n/a	n/a	n/a	9.90E-07	n/a	U
S09V000741			15585-10-1	Europium-154	uCi/g	n/a	<6.53E-07	<6.83E-07	n/a	n/a	n/a	n/a	6.83E-07	n/a	U
S09V000741			14391-16-3	Europium-155	uCi/g	n/a	<4.01E-07	<5.06E-07	n/a	n/a	n/a	n/a	5.06E-07	n/a	U
S09V000741			15046-84-1	Iodine-129	uCi/g	111	7.99E-06	<1.14E-07	n/a	n/a	n/a	n/a	1.14E-07	n/a	U
S09V000742		O	120-82-1	1,2,4-Trichlorobenzene	ug/kg	65.5	<77.4	<77.3	n/a	n/a	n/a	68.7	77.3	n/a	U
S09V000742		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
S09V000742		O	106-46-7	1,4-Dichlorobenzene	ug/kg	61.5	<113	<113	n/a	n/a	n/a	66.1	113	n/a	U
S09V000742		O	121-14-2	2,4-Dinitrotoluene	ug/kg	81.2	<38.1	<38.1	n/a	n/a	n/a	83.6	38.1	n/a	U
S09V000742		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
S09V000742		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
S09V000742		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
S09V000742		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
S09V000742		O	108-39-4M	Cresol (m & p)	ug/kg	n/a	<51.4	<51.4	n/a	n/a	n/a	n/a	51.4	n/a	U
S09V000742		O	83-32-9	Acenaphthene	ug/kg	69.1	<17.6	<17.6	n/a	n/a	n/a	73.3	17.6	n/a	U
S09V000742		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
S09V000742		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
S09V000742		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
S09V000742		O	117-81-7	Bis(2-ethylhexyl) phthalate	ug/kg	n/a	<590	804	n/a	n/a	n/a	n/a	590	n/a	J
S09V000742		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
S09V000742		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

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XV9
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000742		O	59-50-7	4-Chloro-3-methylphenol	ug/kg	74.0	<43.2	<43.2	n/a	n/a	n/a	81.2	43.2	n/a	U
S09V000742		O	95-57-8	2-Chlorophenol	ug/kg	70.2	<66.5	<66.4	n/a	n/a	n/a	75.2	66.4	n/a	U
S09V000742		O	218-01-9	Chrysene	ug/kg	n/a	<81.4	<81.3	n/a	n/a	n/a	n/a	81.3	n/a	U
S09V000742		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
S09V000742		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
S09V000742		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
S09V000742		O	621-64-7	N-Nitroso-di-n-dipropylamine	ug/kg	63.8	<58.1	<58.1	n/a	n/a	n/a	70.3	58.1	n/a	U
S09V000742		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
S09V000742		O	87-68-3	Hexachlorobutadiene	ug/kg	n/a	<69.7	<69.6	n/a	n/a	n/a	n/a	69.6	n/a	U
S09V000742		O	67-72-1	Hexachloroethane	ug/kg	n/a	<112	<112	n/a	n/a	n/a	n/a	112	n/a	U
S09V000742		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
S09V000742		O	108-95-2	Phenol	ug/kg	76.6	<59.4	<59.4	n/a	n/a	n/a	80.9	59.4	n/a	U
S09V000742		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
S09V000742		O	98-95-3	Nitrobenzene	ug/kg	n/a	<64.6	<64.5	n/a	n/a	n/a	n/a	64.5	n/a	U
S09V000742		O	100-02-7	4-Nitrophenol	ug/kg	81.2	<52.6	<52.6	n/a	n/a	n/a	88.1	52.6	n/a	U
S09V000742		O	87-86-5	Pentachlorophenol	ug/kg	68.8	<37.5	<37.5	n/a	n/a	n/a	83.1	37.5	n/a	U
S09V000742		O	129-00-0	Pyrene	ug/kg	83.7	<62.9	<62.8	n/a	n/a	n/a	87.3	62.8	n/a	U
S09V000742		O	110-86-1	Pyridine	ug/kg	n/a	<65.0	<64.9	n/a	n/a	n/a	n/a	64.9	n/a	U
S09V000742		O	126-73-8	Tributyl phosphate	ug/kg	n/a	<108	<108	n/a	n/a	n/a	n/a	108	n/a	U
S09V000742		O	128-37-0	BHT	ug/kg	n/a	<236	<235	n/a	n/a	n/a	n/a	235	n/a	U
S09V000742		O	110-80-5	2-Ethoxyethanol	ug/kg	n/a	<182	<182	n/a	n/a	n/a	n/a	182	n/a	U
S09V000742		O	1319-77-3	Total Methylphenols	ug/kg	n/a	<107	<107	n/a	n/a	n/a	n/a	107	n/a	U
S09V000742		O	108-94-1	Cyclohexanone	ug/kg	n/a	<559	<559	n/a	n/a	n/a	n/a	559	n/a	U
S09V000742		O	59-89-2	N-Nitrosomorpholine	ug/kg	n/a	<191	<191	n/a	n/a	n/a	n/a	191	n/a	U
S09V000742		O	78-83-1	Isobutanol	ug/kg	n/a	<460	<460	n/a	n/a	n/a	n/a	460	n/a	U
S09V000743		W	14762-75-5	Carbon-14	uCi/g	100	<4.58E-05	<5.01E-05	n/a	n/a	n/a	n/a	5.01E-05	n/a	U
S09V000743		W	10028-17-8	Tritium	uCi/g	88.6	<2.62E-04	<2.69E-04	n/a	n/a	n/a	n/a	2.69E-04	n/a	U
S09V000744		A	7440-22-4	Silver	ug/g	113	<1.60E-04	0.208	n/a	n/a	n/a	n/a	0.135	n/a	J

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XV9
Sample Depth: 10-12

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000744	A	7440-38-2	Arsenic	ug/g	109	<8.40E-04	4.41	n/a	n/a	n/a	n/a	0.142	n/a	
S09V000744	A	7440-43-9	Cadmium	ug/g	104	<6.00E-05	0.106	n/a	n/a	n/a	n/a	0.0102	n/a	
S09V000744	A	7439-92-1	Lead	ug/g	107	<6.20E-04	6.87	n/a	n/a	n/a	n/a	0.105	n/a	
S09V000744	A	7440-36-0	Antimony	ug/g	112	<8.80E-04	<0.149	n/a	n/a	n/a	n/a	0.149	n/a	U
S09V000744	A	7782-49-2	Selenium	ug/g	104	<1.22E-03	<0.207	n/a	n/a	n/a	n/a	0.207	n/a	U
S09V000744	A	7440-28-0	Thallium	ug/g	99.2	7.66E-05	0.0922	n/a	n/a	n/a	n/a	0.0102	n/a	BJ
S09V000744	A	7440-62-2	Vanadium	ug/g	111	<4.80E-04	60.6	n/a	n/a	n/a	n/a	0.813	n/a	
S09V000744	A	7440-02-0	Nickel	ug/g	106	<2.40E-04	7.16	n/a	n/a	n/a	n/a	0.0406	n/a	
S09V000745	S	14798-03-9	Ammonium	ug/g	99.7	<0.0120	1.74	2.85	2.295	48.4	90.4	0.467	n/a	J
S09V000746	A	14133-76-7	Technetium-99	ug/g	103	<6.00E-06	<1.07E-03	n/a	n/a	n/a	n/a	1.07E-03	n/a	U
S09V000746	A	SN-117	Tin-117	ug/g	99.6	<2.20E-04	<0.0392	n/a	n/a	n/a	n/a	0.0392	n/a	U
S09V000746	A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<7.12E-04	n/a	n/a	n/a	n/a	7.12E-04	n/a	U
S09V000747	E	CM-243/244	Curium-243/244	uCi/g	n/a	<7.40E-07	<4.04E-07	n/a	n/a	n/a	n/a	4.04E-07	n/a	U
S09V000747	E	14596-10-2	Americium-241	uCi/g	102	<1.85E-06	<1.01E-06	n/a	n/a	n/a	n/a	1.01E-06	n/a	U
S09V000747	E	15510-73-3	Curium-242	uCi/g	n/a	<7.40E-07	<4.04E-07	n/a	n/a	n/a	n/a	4.04E-07	n/a	U
S09V000747	E	13981-37-8	Nickel-63	uCi/g	83.2	<9.09E-05	<4.08E-05	n/a	n/a	n/a	n/a	4.08E-05	n/a	U
S09V000747	E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<1.66E-06	<6.32E-07	n/a	n/a	n/a	n/a	6.32E-07	n/a	U
S09V000747	E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.66E-06	<6.32E-07	n/a	n/a	n/a	n/a	6.32E-07	n/a	U
S09V000747	E	15758-45-9	Selenium-79	uCi/g	n/a	9.63E-06	1.98E-06	n/a	n/a	n/a	n/a	1.43E-06	327.36	BJ
S09V000747	E	SR-89/90	Strontium-89/90	uCi/g	98.9	<4.63E-06	6.75E-05	n/a	n/a	n/a	n/a	2.39E-06	10.54	c
S09V001318	A	7429-90-5	Aluminum	ug/g	90.5	<0.0300	7.26E+03	n/a	n/a	n/a	n/a	5.79	n/a	
S09V001318	A	7440-39-3	Barium	ug/g	94.3	<3.00E-03	75.1	n/a	n/a	n/a	n/a	0.579	n/a	
S09V001318	A	7440-41-7	Beryllium	ug/g	95.6	<1.00E-03	0.295	n/a	n/a	n/a	n/a	0.193	n/a	J
S09V001318	A	7440-70-2	Calcium	ug/g	91.6	0.0856	8.44E+03	n/a	n/a	n/a	n/a	9.65	n/a	
S09V001318	A	7440-45-1	Cerium	ug/g	n/a	<0.0300	33.2	n/a	n/a	n/a	n/a	5.79	n/a	J
S09V001318	A	7440-48-4	Cobalt	ug/g	91.9	<0.0100	9.89	n/a	n/a	n/a	n/a	1.93	n/a	J
S09V001318	A	7440-47-3	Chromium	ug/g	90.9	<5.00E-03	9.08	n/a	n/a	n/a	n/a	0.965	n/a	
S09V001318	A	7440-50-8	Copper	ug/g	93.9	<5.00E-03	13.2	n/a	n/a	n/a	n/a	0.965	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XV9
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001318		A	7439-89-6	Iron	ug/g	91.3	<5.00E-03	2.42E+04	n/a	n/a	n/a	n/a	0.965	n/a	
S09V001318		A	7440-09-7	Potassium	ug/g	114	<0.500	1.47E+03	n/a	n/a	n/a	n/a	96.5	n/a	b
S09V001318		A	7439-91-0	Lanthanum	ug/g	95.2	<3.00E-03	14.9	n/a	n/a	n/a	n/a	0.579	n/a	
S09V001318		A	7439-93-2	Lithium	ug/g	111	<3.00E-03	8.47	n/a	n/a	n/a	n/a	0.579	n/a	
S09V001318		A	7439-95-4	Magnesium	ug/g	87.3	<0.0500	5.16E+03	n/a	n/a	n/a	n/a	9.65	n/a	
S09V001318		A	7439-96-5	Manganese	ug/g	89.0	<3.00E-03	358	n/a	n/a	n/a	n/a	0.579	n/a	
S09V001318		A	7439-98-7	Molybdenum	ug/g	99.0	<0.0200	<3.86	n/a	n/a	n/a	n/a	3.86	n/a	U
S09V001318		A	7440-23-5	Sodium	ug/g	104	<0.100	427	n/a	n/a	n/a	n/a	19.3	n/a	b
S09V001318		A	7440-00-8	Neodymium	ug/g	97.6	<0.0100	33.4	n/a	n/a	n/a	n/a	1.93	n/a	
S09V001318		A	7723-14-0	Phosphorus	ug/g	99.9	<0.0500	1.01E+03	n/a	n/a	n/a	n/a	9.65	n/a	
S09V001318		A	7440-05-3	Palladium	ug/g	92.6	<0.100	69.1	n/a	n/a	n/a	n/a	19.3	n/a	BJ
S09V001318		A	7440-10-0	Praseodymium	ug/g	95.0	<0.0100	2.23	n/a	n/a	n/a	n/a	1.93	n/a	J
S09V001318		A	7440-17-7	Rubidium	ug/g	85.4	<1.00	292	n/a	n/a	n/a	n/a	193	n/a	BJXb
S09V001318		A	7704-34-9	Sulfur	ug/g	96.0	<0.100	62.5	n/a	n/a	n/a	n/a	19.3	n/a	J
S09V001318		A	7440-21-3	Silicon	ug/g	51.5	<0.0300	950	n/a	n/a	n/a	n/a	5.79	n/a	ab
S09V001318		A	7440-24-6	Strontium	ug/g	94.8	<3.00E-03	29.5	n/a	n/a	n/a	n/a	0.579	n/a	
S09V001318		A	7440-32-6	Titanium	ug/g	98.0	<5.00E-03	2.03E+03	n/a	n/a	n/a	n/a	0.965	n/a	b
S09V001318		A	7440-61-1	Uranium	ug/g	98.2	<0.100	<19.3	n/a	n/a	n/a	n/a	19.3	n/a	U
S09V001318		A	7440-33-7	Tungsten	ug/g	96.9	<0.200	102	n/a	n/a	n/a	n/a	38.6	n/a	J
S09V001318		A	7440-65-5	Yttrium	ug/g	93.4	<2.00E-03	10.9	n/a	n/a	n/a	n/a	0.386	n/a	
S09V001318		A	7440-66-6	Zinc	ug/g	89.6	5.57E-03	44.3	n/a	n/a	n/a	n/a	0.965	n/a	
S09V001318		A	7440-67-7	Zirconium	ug/g	90.3	<5.00E-03	20.2	n/a	n/a	n/a	n/a	0.965	n/a	
S09V001318		A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	<2.70E-05	n/a	n/a	n/a	n/a	2.70E-05	n/a	U
S09V001318		A	TH-232	Thorium-232	ug/g	100	3.57E-04	4.40	n/a	n/a	n/a	n/a	6.56E-04	n/a	
S09V001318		A	13968-55-3	Uranium-233	ug/g	n/a	7.77E-07	2.09E-04	n/a	n/a	n/a	n/a	3.86E-05	n/a	BJ
S09V001318		A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	9.61E-05	n/a	n/a	n/a	n/a	1.93E-05	n/a	J
S09V001318		A	15117-96-1	Uranium-235	ug/g	91.4	3.94E-06	0.0131	n/a	n/a	n/a	n/a	4.24E-05	n/a	B
S09V001318		A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	5.62E-04	n/a	n/a	n/a	n/a	1.54E-05	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XV9
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001318		A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<2.04E-04	n/a	n/a	n/a	n/a	2.04E-04	n/a	U
S09V001318		A	U-238	Uranium-238	ug/g	100	5.76E-04	1.75	n/a	n/a	n/a	n/a	2.12E-03	n/a	B
S09V001352		W	16984-48-8	Fluoride	ug/g	98.7	<0.0805	1.89	n/a	n/a	n/a	n/a	0.0201	n/a	
S09V001352		W	666-14-8	Glycolate	ug/g	101	<0.468	<0.117	n/a	n/a	n/a	n/a	0.117	n/a	U
S09V001352		W	71-50-1	Acetate	ug/g	96.1	<0.302	0.828	n/a	n/a	n/a	n/a	0.0754	n/a	Jc
S09V001352		W	12311-97-6	Formate	ug/g	99.4	<0.234	0.416	n/a	n/a	n/a	n/a	0.0583	n/a	J
S09V001352		W	16887-00-6	Chloride	ug/g	98.7	<0.499	0.708	n/a	n/a	n/a	n/a	0.125	n/a	J
S09V001352		W	14797-65-0	Nitrite	ug/g	98.7	<0.960	3.69	n/a	n/a	n/a	n/a	0.240	n/a	c
S09V001352		W	14808-79-8	Sulfate	ug/g	101	<0.935	8.70	n/a	n/a	n/a	n/a	0.233	n/a	c
S09V001352		W	338-70-5	Oxalate	ug/g	99.9	<1.16	0.905	n/a	n/a	n/a	n/a	0.288	n/a	J
S09V001352		W	14797-55-8	Nitrate	ug/g	97.4	<1.04	9.01	n/a	n/a	n/a	n/a	0.260	n/a	c
S09V001352		W	14265-44-2	Phosphate	ug/g	98.0	<0.835	3.21	n/a	n/a	n/a	n/a	0.208	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XW1
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000735			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.169	n/a	n/a	n/a	n/a	0.169	n/a	U
S09V000735			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.322	n/a	n/a	n/a	n/a	0.322	n/a	U
S09V000735			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.424	n/a	n/a	n/a	n/a	0.424	n/a	U
S09V000735			75-35-4	1,1-Dichloroethene	ug/kg	75.0	<0.340	<0.288	n/a	n/a	n/a	71.0	0.288	n/a	U
S09V000735			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S09V000735			71-36-3	1-Butanol	ug/kg	84.4	<15.5	<13.2	n/a	n/a	n/a	107	13.2	n/a	Uc
S09V000735			108-10-1	Hexone	ug/kg	90.8	<1.76	<1.49	n/a	n/a	n/a	116	1.49	n/a	Uc
S09V000735			67-64-1	Acetone	ug/kg	94.1	<4.38	4.20	n/a	n/a	n/a	129	3.71	n/a	Jc
S09V000735			71-43-2	Benzene	ug/kg	78.9	<0.320	<0.271	n/a	n/a	n/a	84.6	0.271	n/a	U
S09V000735			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000735			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.254	n/a	n/a	n/a	n/a	0.254	n/a	U
S09V000735			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.153	n/a	n/a	n/a	n/a	0.153	n/a	U
S09V000735			108-90-7	Chlorobenzene	ug/kg	82.9	<0.220	<0.186	n/a	n/a	n/a	84.8	0.186	n/a	U
S09V000735			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.203	n/a	n/a	n/a	n/a	0.203	n/a	U
S09V000735			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.525	n/a	n/a	n/a	n/a	0.525	n/a	U
S09V000735			78-93-3	2-Butanone	ug/kg	90.3	<2.66	<2.25	n/a	n/a	n/a	131	2.25	n/a	Ubc
S09V000735			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.288	n/a	n/a	n/a	n/a	0.288	n/a	U
S09V000735			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.339	n/a	n/a	n/a	n/a	0.339	n/a	U
S09V000735			108-88-3	Toluene	ug/kg	82.0	<0.240	<0.203	n/a	n/a	n/a	77.0	0.203	n/a	U
S09V000735			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.119	n/a	n/a	n/a	n/a	0.119	n/a	U
S09V000735			79-01-6	Trichloroethene	ug/kg	83.2	<0.300	<0.254	n/a	n/a	n/a	84.4	0.254	n/a	U
S09V000735			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.542	n/a	n/a	n/a	n/a	0.542	n/a	U
S09V000735			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.220	n/a	n/a	n/a	n/a	0.220	n/a	U
S09V000735			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.305	n/a	n/a	n/a	n/a	0.305	n/a	U
S09V000735			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.424	n/a	n/a	n/a	n/a	0.424	n/a	U
S09V000735			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.34	n/a	n/a	n/a	n/a	1.34	n/a	U
S09V000735			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.824	n/a	n/a	n/a	n/a	0.824	n/a	U
S09V000735			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.750	n/a	n/a	n/a	n/a	0.750	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XW1
Sample Depth: 10-12

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000735			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.64	n/a	n/a	n/a	n/a	1.64	n/a	U
S09V000735			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.169	n/a	n/a	n/a	n/a	0.169	n/a	U
S09V000735			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.356	n/a	n/a	n/a	n/a	0.356	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XW3
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000753			%WATERA	%WATER-APD	%	n/a	n/a	7.612	n/a	n/a	n/a	n/a	n/a	n/a	
S09V000753			57-12-5	Cyanide	ug/g	97.5	<0.0370	<4.02	n/a	n/a	n/a	n/a	4.02	n/a	U
S09V000753			7439-97-6	Mercury	ug/g	107	<1.00E-04	<0.0128	n/a	n/a	n/a	n/a	0.0128	n/a	U
S09V000753			PH	pH	unitless	n/a	n/a	9.65	n/a	n/a	n/a	n/a	0.0100	n/a	
S09V000753			18496-25-8	Sulfide	ug/g	95.2	<0.180	24.8	n/a	n/a	n/a	n/a	7.02	n/a	J
S09V000754			10198-40-0	Cobalt-60	uCi/g	103	<5.98E-07	<7.42E-07	<6.37E-07	n/a	n/a	n/a	7.42E-07	n/a	U
S09V000754			14234-35-6	Antimony-125	uCi/g	n/a	<1.49E-06	<2.08E-06	<2.04E-06	n/a	n/a	n/a	2.08E-06	n/a	U
S09V000754			10045-97-3	Cesium-137	uCi/g	107	<6.41E-07	1.55E-05	1.50E-05	.00001525	3.14	n/a	7.89E-07	7.54	
S09V000754			14683-23-9	Europium-152	uCi/g	n/a	<2.70E-06	<3.51E-06	<3.12E-06	n/a	n/a	n/a	3.51E-06	n/a	U
S09V000754			15585-10-1	Europium-154	uCi/g	n/a	<1.77E-06	<2.05E-06	<2.12E-06	n/a	n/a	n/a	2.05E-06	n/a	U
S09V000754			14391-16-3	Europium-155	uCi/g	n/a	<8.82E-07	<1.18E-06	<1.27E-06	n/a	n/a	n/a	1.18E-06	n/a	U
S09V000754			15046-84-1	Iodine-129	uCi/g	111	7.99E-06	<2.46E-07	<2.78E-07	n/a	n/a	n/a	2.46E-07	n/a	U
S09V000756		W	14762-75-5	Carbon-14	uCi/g	100	<4.58E-05	<6.26E-05	n/a	n/a	n/a	n/a	6.26E-05	n/a	U
S09V000756		W	10028-17-8	Tritium	uCi/g	88.6	<2.62E-04	<4.42E-04	n/a	n/a	n/a	n/a	4.42E-04	n/a	U
S09V000757		A	7440-22-4	Silver	ug/g	113	<1.60E-04	0.223	n/a	n/a	n/a	n/a	0.149	n/a	J
S09V000757		A	7440-38-2	Arsenic	ug/g	109	<8.40E-04	5.16	n/a	n/a	n/a	n/a	0.156	n/a	
S09V000757		A	7440-43-9	Cadmium	ug/g	104	<6.00E-05	0.105	n/a	n/a	n/a	n/a	0.0111	n/a	J
S09V000757		A	7439-92-1	Lead	ug/g	107	<6.20E-04	7.79	n/a	n/a	n/a	n/a	0.115	n/a	
S09V000757		A	7440-36-0	Antimony	ug/g	112	<8.80E-04	<0.164	n/a	n/a	n/a	n/a	0.164	n/a	U
S09V000757		A	7782-49-2	Selenium	ug/g	104	<1.22E-03	<0.227	n/a	n/a	n/a	n/a	0.227	n/a	U
S09V000757		A	7440-28-0	Thallium	ug/g	99.2	7.66E-05	0.114	n/a	n/a	n/a	n/a	0.0111	n/a	B
S09V000757		A	7440-62-2	Vanadium	ug/g	111	<4.80E-04	71.4	n/a	n/a	n/a	n/a	0.892	n/a	
S09V000757		A	7440-02-0	Nickel	ug/g	106	<2.40E-04	7.39	n/a	n/a	n/a	n/a	0.0446	n/a	
S09V000758		S	14798-03-9	Ammonium	ug/g	99.7	<0.0120	2.35	n/a	n/a	n/a	n/a	0.467	n/a	J
S09V000759		A	14133-76-7	Technetium-99	ug/g	103	<6.00E-06	<1.02E-03	n/a	n/a	n/a	n/a	1.02E-03	n/a	U
S09V000759		A	SN-117	Tin-117	ug/g	99.6	<2.20E-04	<0.0375	n/a	n/a	n/a	n/a	0.0375	n/a	U
S09V000759		A	15832-50-5	Tin-126	ug/g	n/a	<4.00E-06	<6.83E-04	n/a	n/a	n/a	n/a	6.83E-04	n/a	U
S09V000760		E	CM-243/244	Curium-243/244	uCi/g	n/a	<7.40E-07	<4.71E-07	<3.67E-07	n/a	n/a	n/a	4.71E-07	n/a	U

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XW3
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000760		E	14596-10-2	Americium-241	uCi/g	102	<1.85E-06	<1.18E-06	<9.17E-07	n/a	n/a	n/a	1.18E-06	n/a	U
S09V000760		E	15510-73-3	Curium-242	uCi/g	n/a	<7.40E-07	<4.71E-07	<3.67E-07	n/a	n/a	n/a	4.71E-07	n/a	U
S09V000760		E	13981-37-8	Nickel-63	uCi/g	83.2	<9.09E-05	<4.32E-05	<4.05E-05	n/a	n/a	n/a	4.32E-05	n/a	U
S09V000760		E	PU-239/240	Plutonium-239/240	uCi/g	97.1	<1.66E-06	<5.95E-07	<5.55E-07	n/a	n/a	n/a	5.95E-07	n/a	U
S09V000760		E	13981-16-3	Plutonium-238	uCi/g	n/a	<1.66E-06	<5.95E-07	<5.55E-07	n/a	n/a	n/a	5.95E-07	n/a	U
S09V000760		E	15758-45-9	Selenium-79	uCi/g	n/a	9.63E-06	5.17E-06	3.18E-07	.000002744	177	n/a	1.88E-06	236.85	BJ
S09V000760		E	SR-89/90	Strontium-89/90	uCi/g	98.9	<4.63E-06	7.34E-05	2.75E-04	.0001742	116	n/a	2.30E-06	9.77	c
S09V001319		A	7429-90-5	Aluminum	ug/g	90.5	<0.0300	6.72E+03	7.82E+03	7270	15.2	608	5.51	n/a	
S09V001319		A	7440-39-3	Barium	ug/g	94.3	<3.00E-03	68.2	79.3	73.75	15.1	97.5	0.551	n/a	
S09V001319		A	7440-41-7	Beryllium	ug/g	95.6	<1.00E-03	0.237	0.261	.249	9.66	95.0	0.184	n/a	J
S09V001319		A	7440-70-2	Calcium	ug/g	91.6	0.0856	8.19E+03	1.01E+04	9145	20.5	538	9.18	n/a	
S09V001319		A	7440-45-1	Cerium	ug/g	n/a	<0.0300	28.1	32.9	30.5	15.6	-0.142	5.51	n/a	J
S09V001319		A	7440-48-4	Cobalt	ug/g	91.9	<0.0100	8.32	9.35	8.835	11.6	91.4	1.84	n/a	J
S09V001319		A	7440-47-3	Chromium	ug/g	90.9	<5.00E-03	9.66	10.1	9.88	4.23	90.1	0.918	n/a	
S09V001319		A	7440-50-8	Copper	ug/g	93.9	<5.00E-03	12.6	13.0	12.8	3.12	95.6	0.918	n/a	
S09V001319		A	7439-89-6	Iron	ug/g	91.3	<5.00E-03	2.23E+04	2.39E+04	23100	6.84	639	0.918	n/a	
S09V001319		A	7440-09-7	Potassium	ug/g	114	<0.500	1.38E+03	1.76E+03	1570	23.8	200	91.8	n/a	b
S09V001319		A	7439-91-0	Lanthanum	ug/g	95.2	<3.00E-03	12.1	14.4	13.25	18.0	94.1	0.551	n/a	
S09V001319		A	7439-93-2	Lithium	ug/g	111	<3.00E-03	8.45	10.3	9.375	20.1	110	0.551	n/a	
S09V001319		A	7439-95-4	Magnesium	ug/g	87.3	<0.0500	5.04E+03	5.50E+03	5270	8.73	261	9.18	n/a	e
S09V001319		A	7439-96-5	Manganese	ug/g	89.0	<3.00E-03	305	350	327.5	13.7	102	0.551	n/a	
S09V001319		A	7439-98-7	Molybdenum	ug/g	99.0	<0.0200	<3.67	<3.53	n/a	n/a	95.3	3.67	n/a	U
S09V001319		A	7440-23-5	Sodium	ug/g	104	<0.100	451	481	466	6.46	166	18.4	n/a	b
S09V001319		A	7440-00-8	Neodymium	ug/g	97.6	<0.0100	28.6	31.8	30.2	10.4	96.4	1.84	n/a	
S09V001319		A	7723-14-0	Phosphorus	ug/g	99.9	<0.0500	955	938	946.5	1.89	108	9.18	n/a	e
S09V001319		A	7440-05-3	Palladium	ug/g	92.6	<0.100	66.8	74.9	70.85	11.4	93.3	18.4	n/a	BJ
S09V001319		A	7440-10-0	Praseodymium	ug/g	95.0	<0.0100	2.52	1.79	2.155	34.1	93.1	1.84	n/a	J
S09V001319		A	7440-17-7	Rubidium	ug/g	85.4	<1.00	265	204	234.5	25.6	55.9	184	n/a	BJXb

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XW3
Sample Depth: 14-16

Sample# R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V001319	A	7704-34-9	Sulfur	ug/g	96.0	<0.100	83.7	74.1	78.9	12.1	95.4	18.4	n/a	J
S09V001319	A	7440-21-3	Silicon	ug/g	51.5	<0.0300	9.25E+02	1.10E+03	1012.5	17.3	137	5.51	n/a	abe
S09V001319	A	7440-24-6	Strontium	ug/g	94.8	<3.00E-03	28.0	31.5	29.75	11.8	95.4	0.551	n/a	
S09V001319	A	7440-32-6	Titanium	ug/g	98.0	<5.00E-03	1.99E+03	2.15E+03	2070	7.40	137	0.918	n/a	be
S09V001319	A	7440-61-1	Uranium	ug/g	98.2	<0.100	<18.4	<17.6	n/a	n/a	96.6	18.4	n/a	U
S09V001319	A	7440-33-7	Tungsten	ug/g	96.9	<0.200	82.2	90.9	86.55	10.0	103	36.7	n/a	J
S09V001319	A	7440-65-5	Yttrium	ug/g	93.4	<2.00E-03	10.7	10.4	10.55	3.37	90.6	0.367	n/a	
S09V001319	A	7440-66-6	Zinc	ug/g	89.6	5.57E-03	42.5	44.8	43.65	5.18	91.9	0.918	n/a	
S09V001319	A	7440-67-7	Zirconium	ug/g	90.3	<5.00E-03	19.0	20.3	19.65	6.32	86.8	0.918	n/a	
S09V001319	A	14269-63-7	Thorium-230	ug/g	n/a	<1.40E-07	3.16E-05	2.82E-05	.0000299	11.3	n/a	2.57E-05	n/a	J
S09V001319	A	TH-232	Thorium-232	ug/g	100	3.57E-04	3.46	4.69	4.075	30.1	99.8	6.25E-04	n/a	
S09V001319	A	13968-55-3	Uranium-233	ug/g	n/a	7.77E-07	2.67E-04	2.80E-04	.0002735	4.80	n/a	3.67E-05	n/a	BJ
S09V001319	A	13966-29-5	Uranium-234	ug/g	n/a	<1.00E-07	6.23E-05	4.22E-05	.00005225	38.5	n/a	1.84E-05	n/a	J
S09V001319	A	15117-96-1	Uranium-235	ug/g	91.4	3.94E-06	4.61E-03	5.12E-03	.004865	10.5	91.8	4.04E-05	n/a	B
S09V001319	A	13982-70-2	Uranium-236	ug/g	n/a	<8.00E-08	4.06E-05	4.43E-05	.00004245	8.66	n/a	1.47E-05	n/a	J
S09V001319	A	13994-20-2	Neptunium-237	ug/g	108	<1.06E-06	<1.95E-04	<1.87E-04	n/a	n/a	110	1.95E-04	n/a	U
S09V001319	A	U-238	Uranium-238	ug/g	100	5.76E-04	0.702	0.791	.7465	11.9	99.6	2.02E-03	n/a	B
S09V001353	W	16984-48-8	Fluoride	ug/g	98.7	<0.0805	2.39	n/a	n/a	n/a	n/a	0.0200	n/a	
S09V001353	W	666-14-8	Glycolate	ug/g	101	<0.468	<0.116	n/a	n/a	n/a	n/a	0.116	n/a	U
S09V001353	W	71-50-1	Acetate	ug/g	96.1	<0.302	1.23	n/a	n/a	n/a	n/a	0.0750	n/a	Jc
S09V001353	W	12311-97-6	Formate	ug/g	99.4	<0.234	0.569	n/a	n/a	n/a	n/a	0.0580	n/a	J
S09V001353	W	16887-00-6	Chloride	ug/g	98.7	<0.499	1.74	n/a	n/a	n/a	n/a	0.124	n/a	
S09V001353	W	14797-65-0	Nitrite	ug/g	98.7	<0.960	5.76	n/a	n/a	n/a	n/a	0.238	n/a	c
S09V001353	W	14808-79-8	Sulfate	ug/g	101	<0.935	18.6	n/a	n/a	n/a	n/a	0.232	n/a	c
S09V001353	W	338-70-5	Oxalate	ug/g	99.9	<1.16	1.56	n/a	n/a	n/a	n/a	0.287	n/a	J
S09V001353	W	14797-55-8	Nitrate	ug/g	97.4	<1.04	17.5	n/a	n/a	n/a	n/a	0.258	n/a	c
S09V001353	W	14265-44-2	Phosphate	ug/g	98.0	<0.835	3.73	n/a	n/a	n/a	n/a	0.207	n/a	

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C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XW5
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000748			71-55-6	1,1,1-Trichloroethane	ug/kg	n/a	<0.200	<0.172	n/a	n/a	n/a	n/a	0.172	n/a	U
S09V000748			79-00-5	1,1,2-Trichloroethane	ug/kg	n/a	<0.380	<0.328	n/a	n/a	n/a	n/a	0.328	n/a	U
S09V000748			79-34-5	1,1,2,2-Tetrachloroethane	ug/kg	n/a	<0.500	<0.431	n/a	n/a	n/a	n/a	0.431	n/a	U
S09V000748			75-35-4	1,1-Dichloroethene	ug/kg	73.0	<0.340	<0.293	n/a	n/a	n/a	n/a	0.293	n/a	U
S09V000748			107-06-2	1,2-Dichloroethane	ug/kg	n/a	<0.180	<0.155	n/a	n/a	n/a	n/a	0.155	n/a	U
S09V000748			71-36-3	1-Butanol	ug/kg	82.6	<15.5	<13.4	n/a	n/a	n/a	n/a	13.4	n/a	U
S09V000748			108-10-1	Hexone	ug/kg	84.1	<1.76	<1.52	n/a	n/a	n/a	n/a	1.52	n/a	U
S09V000748			67-64-1	Acetone	ug/kg	88.5	<4.38	4.18	n/a	n/a	n/a	n/a	3.78	n/a	J
S09V000748			71-43-2	Benzene	ug/kg	78.7	<0.320	<0.276	n/a	n/a	n/a	n/a	0.276	n/a	U
S09V000748			75-15-0	Carbon disulfide	ug/kg	n/a	<0.300	<0.259	n/a	n/a	n/a	n/a	0.259	n/a	U
S09V000748			56-23-5	Carbon tetrachloride	ug/kg	n/a	<0.300	<0.259	n/a	n/a	n/a	n/a	0.259	n/a	U
S09V000748			67-66-3	Chloroform	ug/kg	n/a	<0.180	<0.155	n/a	n/a	n/a	n/a	0.155	n/a	U
S09V000748			108-90-7	Chlorobenzene	ug/kg	79.8	<0.220	<0.190	n/a	n/a	n/a	n/a	0.190	n/a	U
S09V000748			100-41-4	Ethylbenzene	ug/kg	n/a	<0.240	<0.207	n/a	n/a	n/a	n/a	0.207	n/a	U
S09V000748			1330-20-7	Xylenes (total)	ug/kg	n/a	<0.620	<0.534	n/a	n/a	n/a	n/a	0.534	n/a	U
S09V000748			78-93-3	2-Butanone	ug/kg	87.6	<2.66	<2.29	n/a	n/a	n/a	n/a	2.29	n/a	U
S09V000748			75-09-2	Methylenechloride	ug/kg	n/a	<0.340	<0.293	n/a	n/a	n/a	n/a	0.293	n/a	U
S09V000748			127-18-4	Tetrachloroethene	ug/kg	n/a	<0.400	<0.345	n/a	n/a	n/a	n/a	0.345	n/a	U
S09V000748			108-88-3	Toluene	ug/kg	77.8	<0.240	<0.207	n/a	n/a	n/a	n/a	0.207	n/a	U
S09V000748			10061-02-6	trans-1,3-Dichloropropene	ug/kg	n/a	<0.140	<0.121	n/a	n/a	n/a	n/a	0.121	n/a	U
S09V000748			79-01-6	Trichloroethene	ug/kg	81.3	<0.300	<0.259	n/a	n/a	n/a	n/a	0.259	n/a	U
S09V000748			75-01-4	Vinyl chloride	ug/kg	n/a	<0.640	<0.552	n/a	n/a	n/a	n/a	0.552	n/a	U
S09V000748			156-59-2	cis-Dichloroethylene	ug/kg	n/a	<0.260	<0.224	n/a	n/a	n/a	n/a	0.224	n/a	U
S09V000748			156-60-5	trans-Dichloroethylene	ug/kg	n/a	<0.360	<0.310	n/a	n/a	n/a	n/a	0.310	n/a	U
S09V000748			76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ug/kg	n/a	<0.500	<0.431	n/a	n/a	n/a	n/a	0.431	n/a	U
S09V000748			79-46-9	2-Nitropropane	ug/kg	n/a	<1.58	<1.36	n/a	n/a	n/a	n/a	1.36	n/a	U
S09V000748			141-78-6	Ethyl acetate	ug/kg	n/a	<0.972	<0.838	n/a	n/a	n/a	n/a	0.838	n/a	U
S09V000748			60-29-7	Diethyl ether	ug/kg	n/a	<0.885	<0.763	n/a	n/a	n/a	n/a	0.763	n/a	U

NA = Not Analyzed, ND = Not Detected

J - Estimated
B - Found In Blank
X - Comment
U - Less Than Detection Limit
a - LCS Outside Range
Y - Comment
c - RPD Outside Range
b - MS/MSD Outside Range
e - SERDIL Outside Range

C Farm WMA C
Data Summary Report

Sample Group: 20090452
Core Number: C6402
Customer Sample ID: B20XW5
Sample Depth: 14-16

Sample#	R	A#	CAS #	Analyte	Unit	STD %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Cnt Err %	Qual Flags
S09V000748			75-69-4	Trichlorofluoromethane	ug/kg	n/a	<1.94	<1.67	n/a	n/a	n/a	n/a	1.67	n/a	U
S09V000748			95-47-6	o-Xylene	ug/kg	n/a	<0.200	<0.172	n/a	n/a	n/a	n/a	0.172	n/a	U
S09V000748			106-42-3	m,p-Xylene	ug/kg	n/a	<0.420	<0.362	n/a	n/a	n/a	n/a	0.362	n/a	U

NA = Not Analyzed, ND = Not Detected

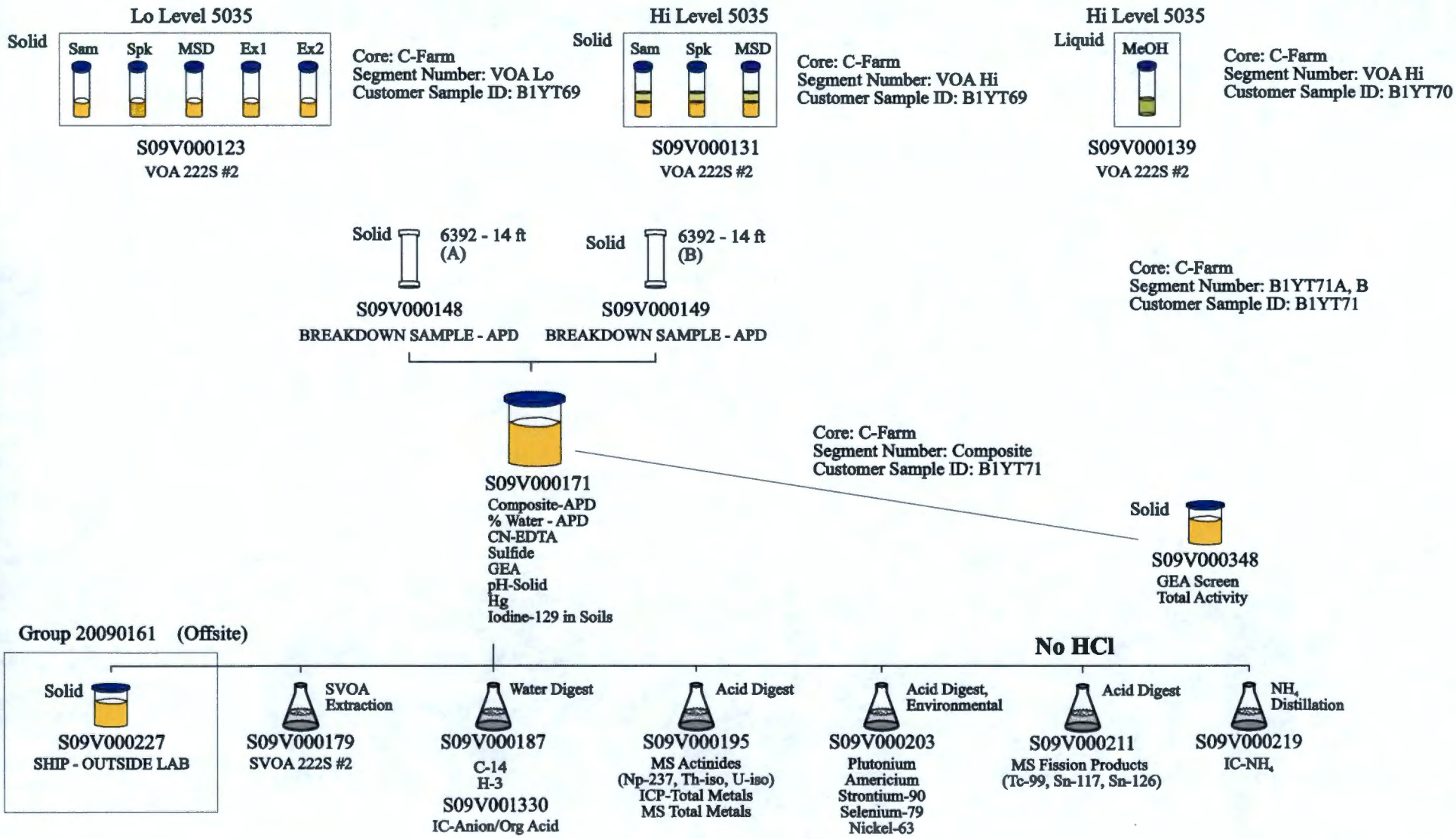
J - Estimated
B - Found in Blank
X - Comment
U - Less Than Detection Limit
a - LCS Outside Range
Y - Comment
c - RPD Outside Range
b - MS/MSD Outside Range
e - SERDIL Outside Range

Attachment 2

SAMPLE BREAKDOWN DIAGRAM

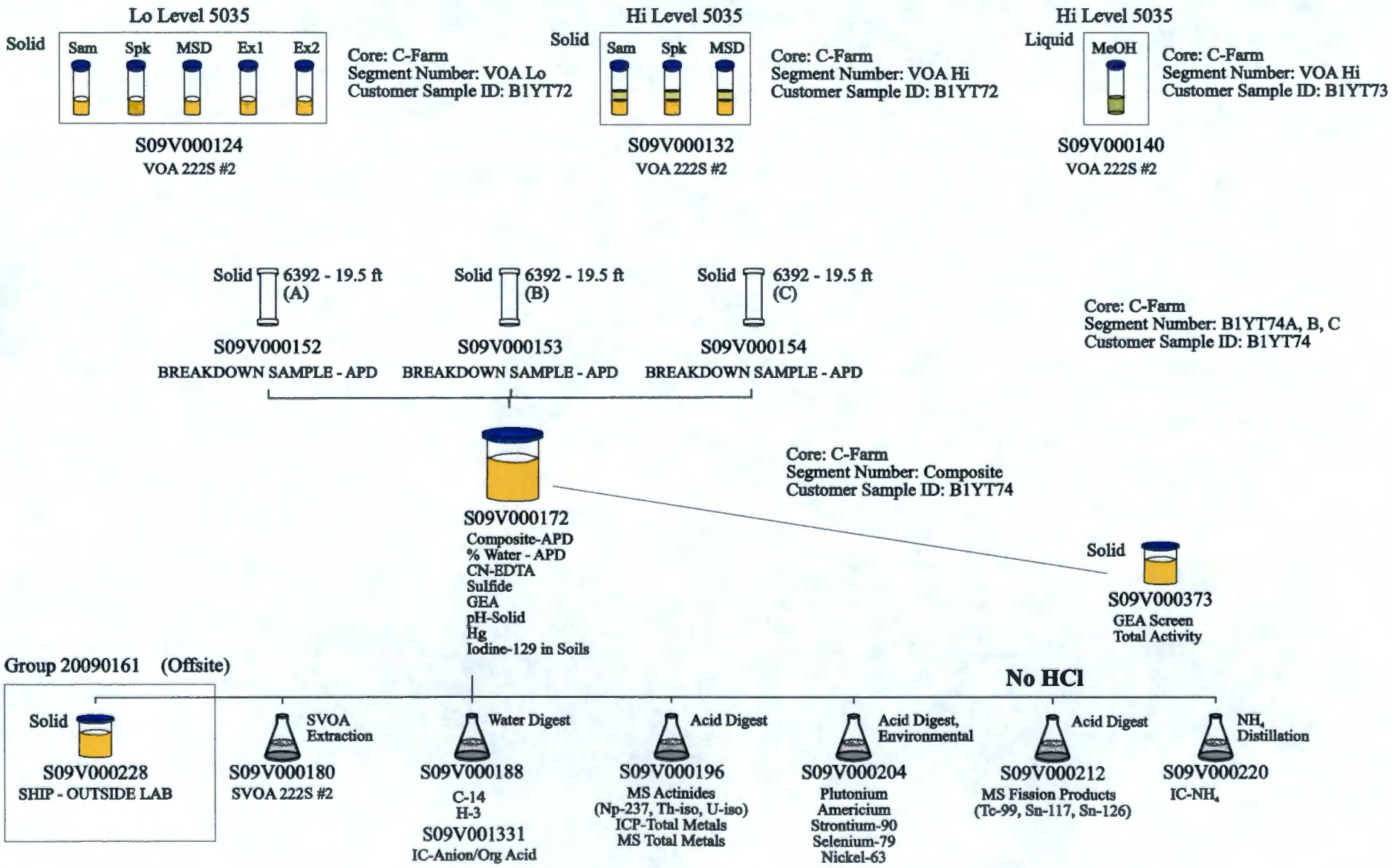
Vadose Zone: C Farm
Core: C6392
Group 20090160 (ATL)
Group 20090161 (Offsite)

Depth: 14-15ft



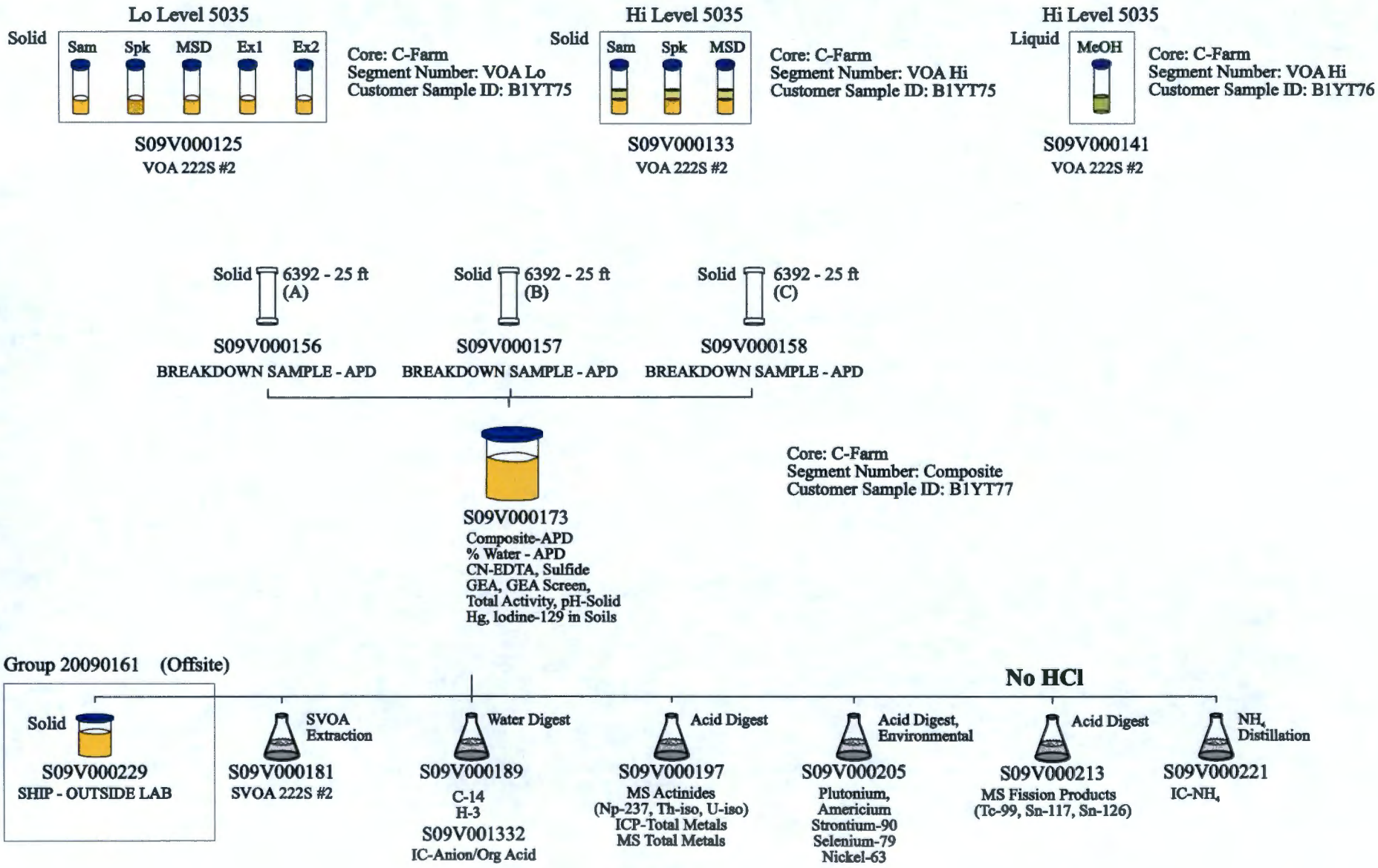
Vadose Zone: C Farm
Core: C6392
Group 20090160 (ATL)
Group 20090161 (Offsite)

Depth: 19.5-21.5ft



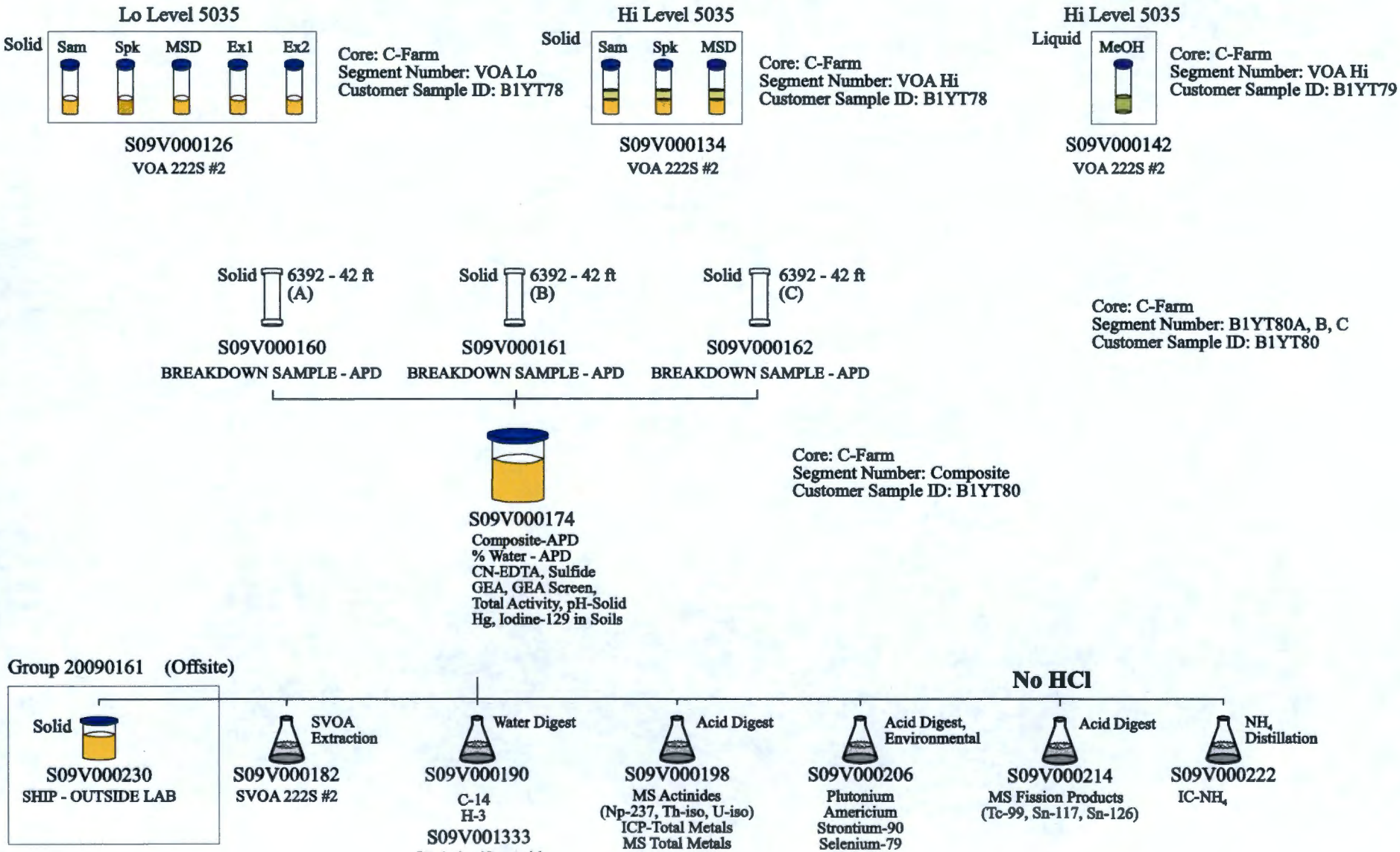
Vadose Zone: C Farm
Core: C6392
Group 20090160 (ATL)
Group 20090161 (Offsite)

Depth: 25-27ft



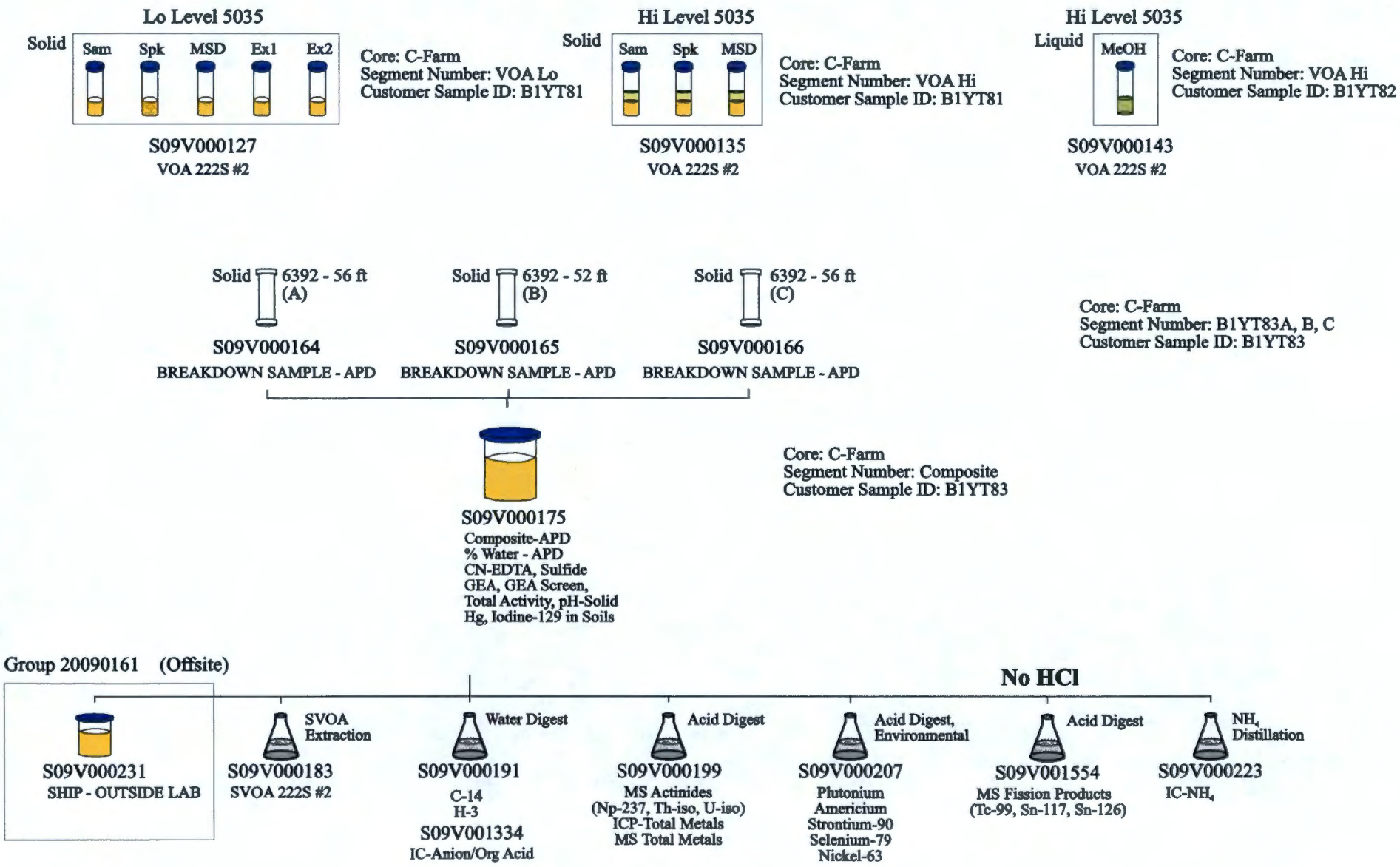
Vadose Zone: C Farm
Core: C6392
Group 20090160 (ATL)
Group 20090161 (Offsite)

Depth: 42-44ft



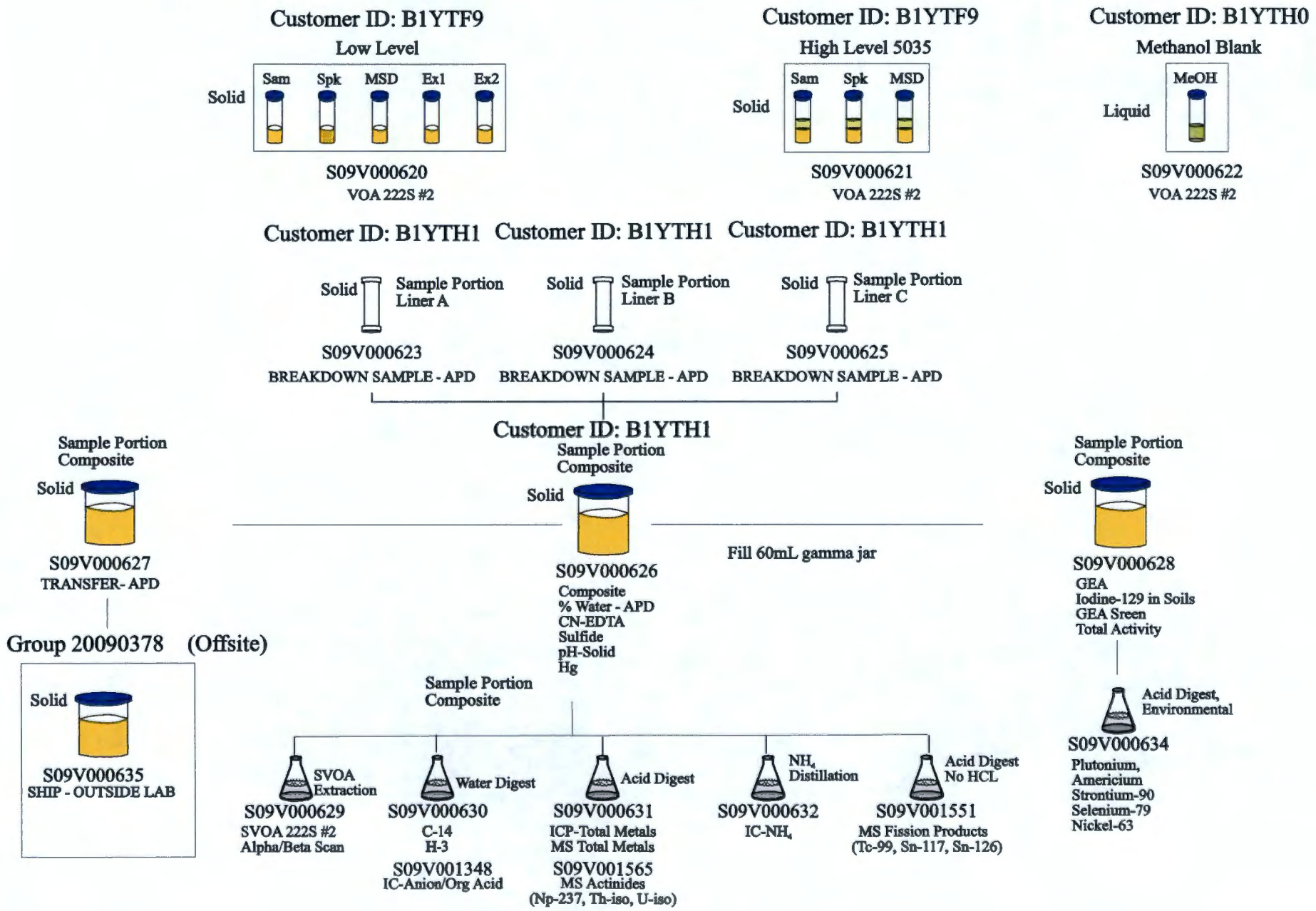
Vadose Zone: C Farm
Core: C6392
Group 20090160 (ATL)
Group 20090161 (Offsite)

Depth: 56-58ft



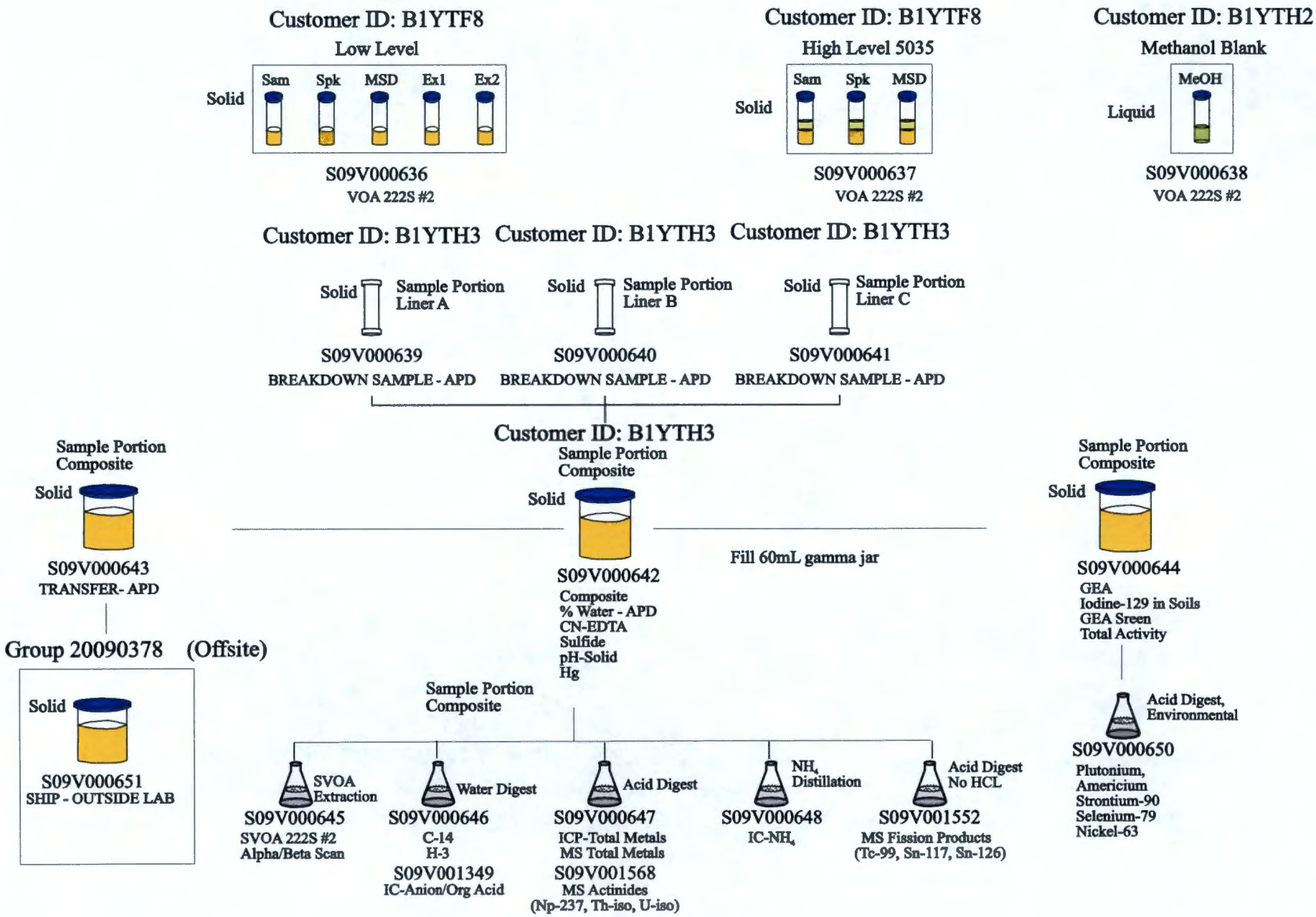
Vadose Zone: C Farm
Core No.: C6400
Group 20090377 (ATL)
Group 20090378 (Offsite)

Depth: 5-7 ft



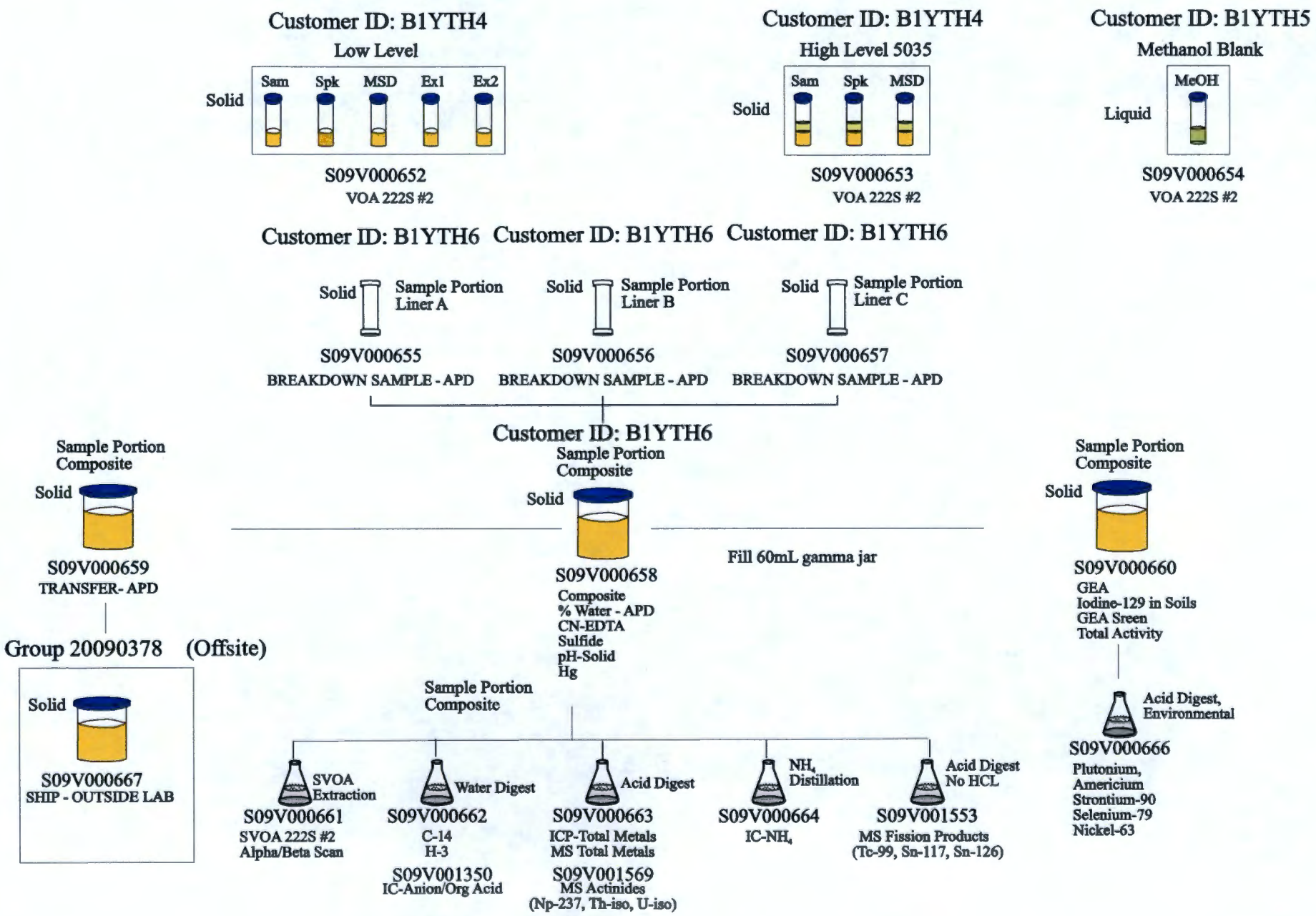
Vadose Zone: C Farm
Core No.: C6400
Group 20090377 (ATL)
Group 20090378 (Offsite)

Depth: 10-12 ft



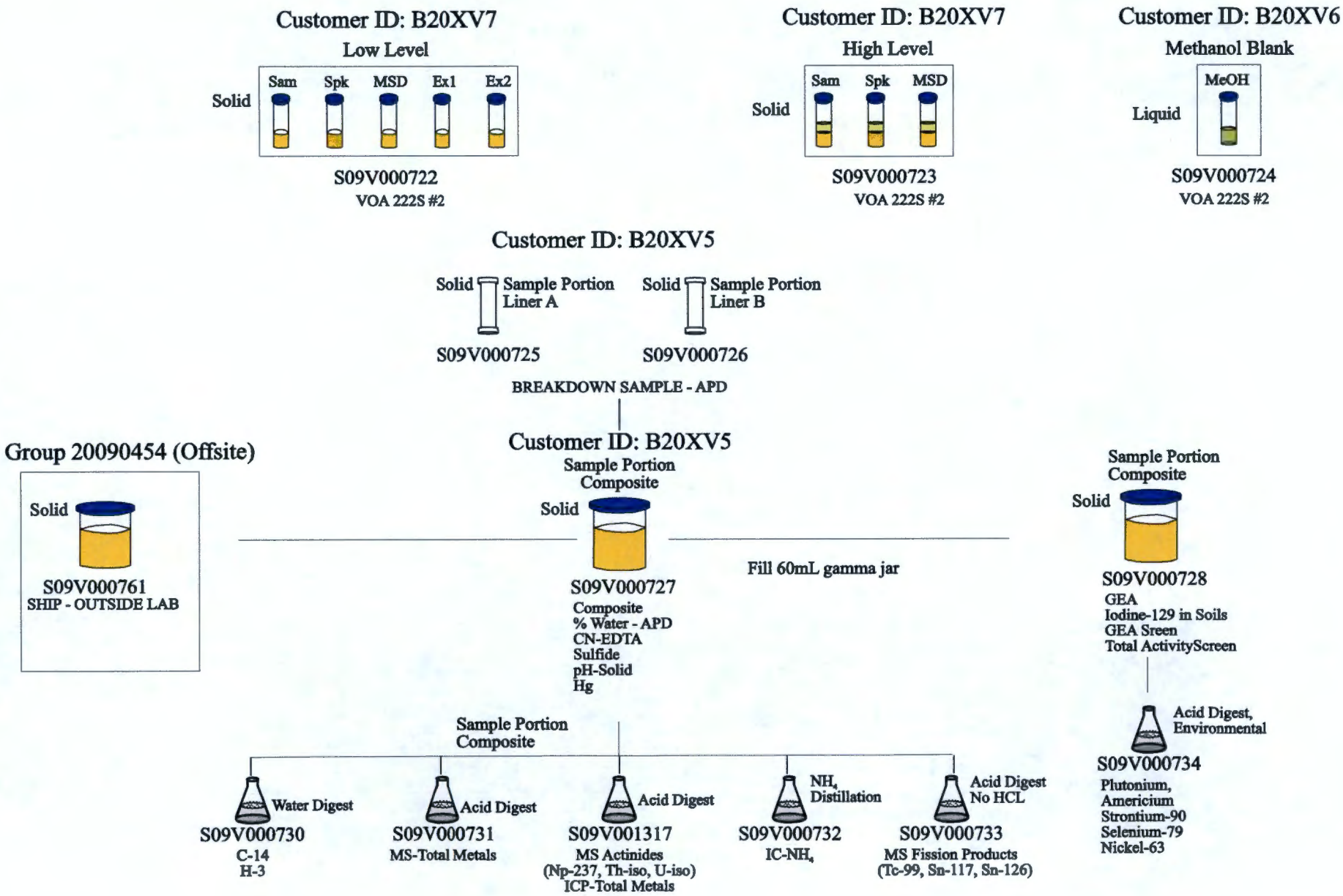
Vadose Zone: C Farm
Core No.: C6400
Group 20090377 (ATL)
Group 20090378 (Offsite)

Depth: 132-134.5 ft



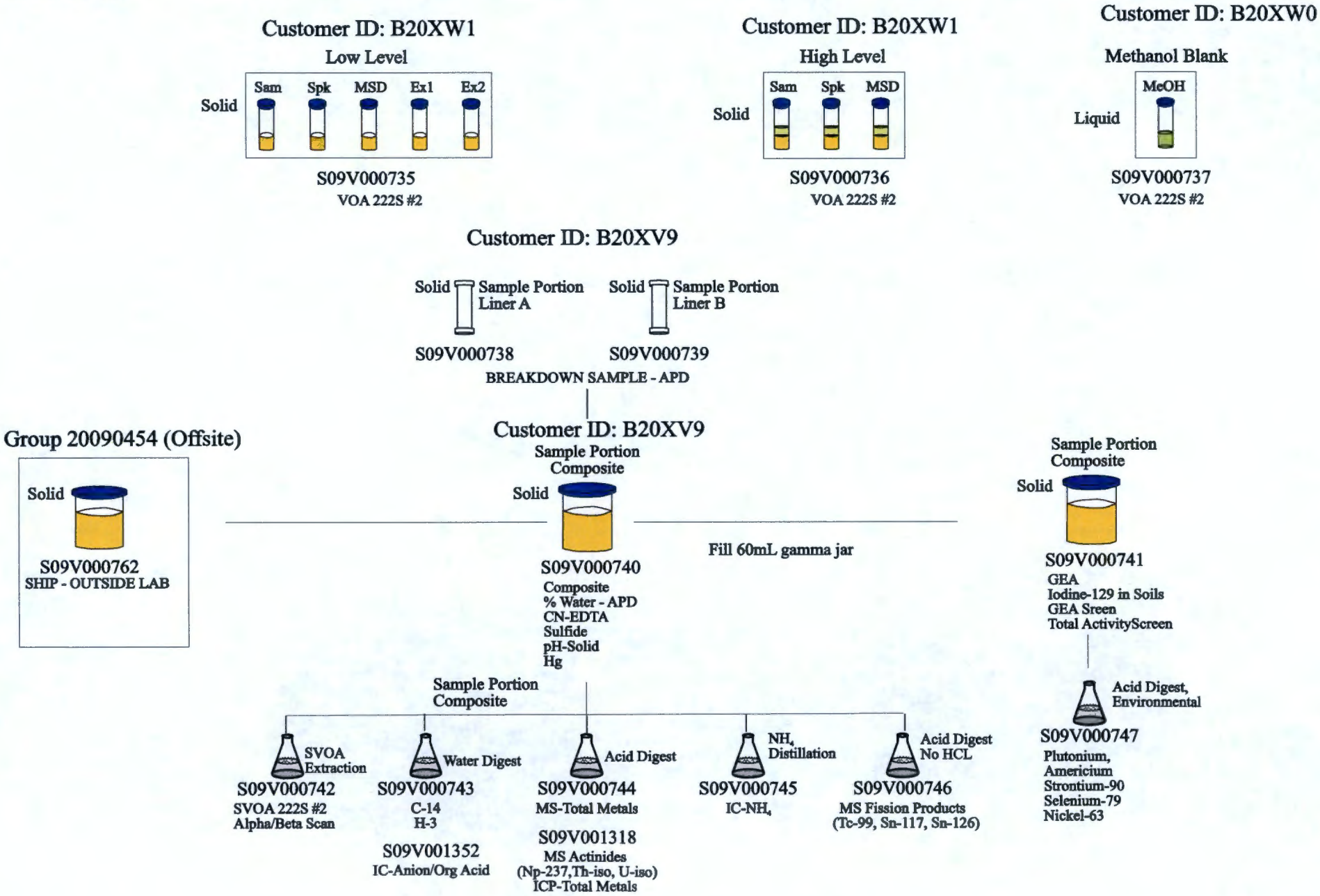
Vadose Zone: C Farm
Core No.: C6402
Group 20090452 (ATL)
Group 20090454 (Offsite)

Depth: 6-8 ft



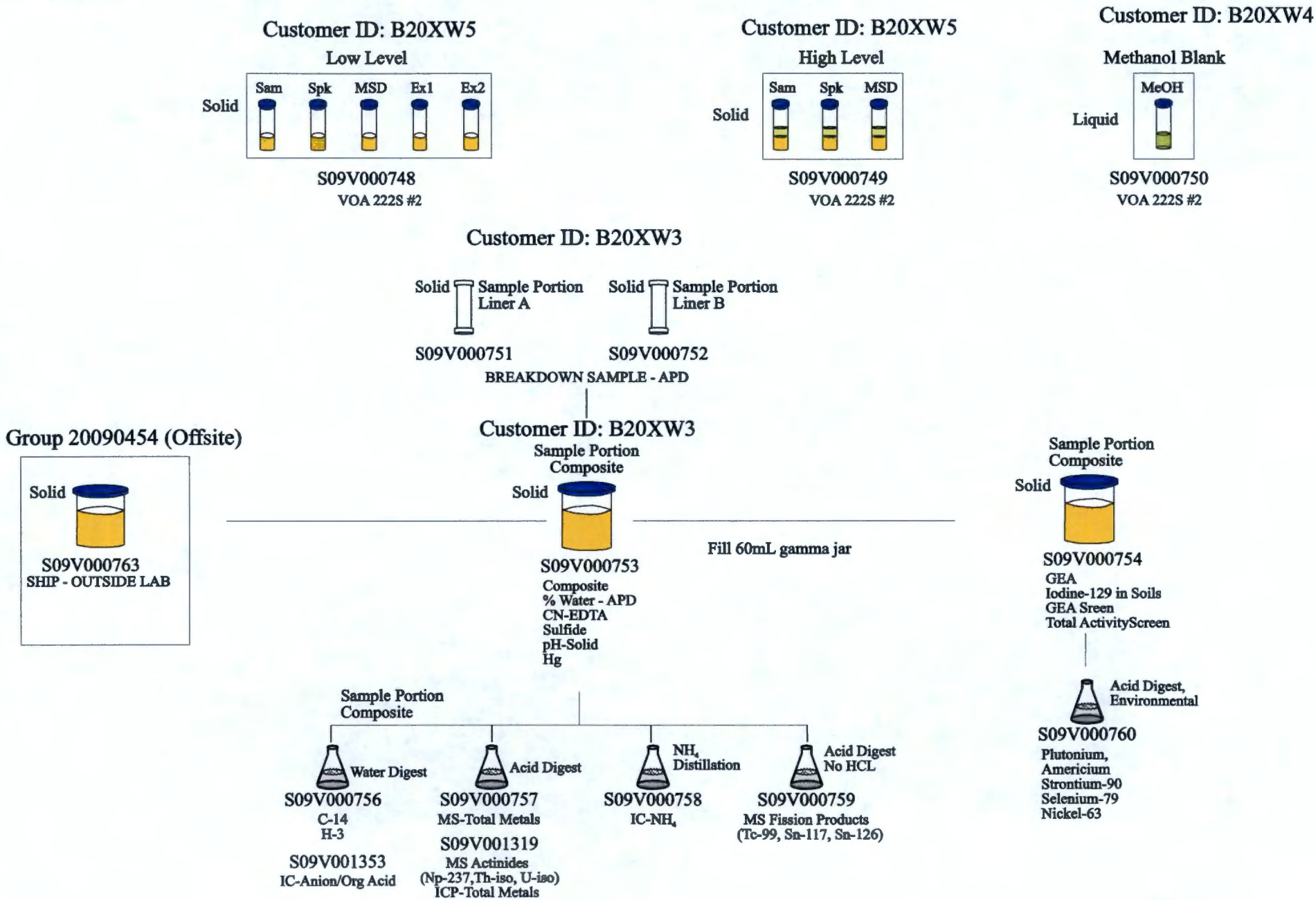
Vadose Zone: C Farm
Core No.: C6402
Group 20090452 (ATL)
Group 20090454 (Offsite)
Due: 8/31/09

Depth: 10-12 ft



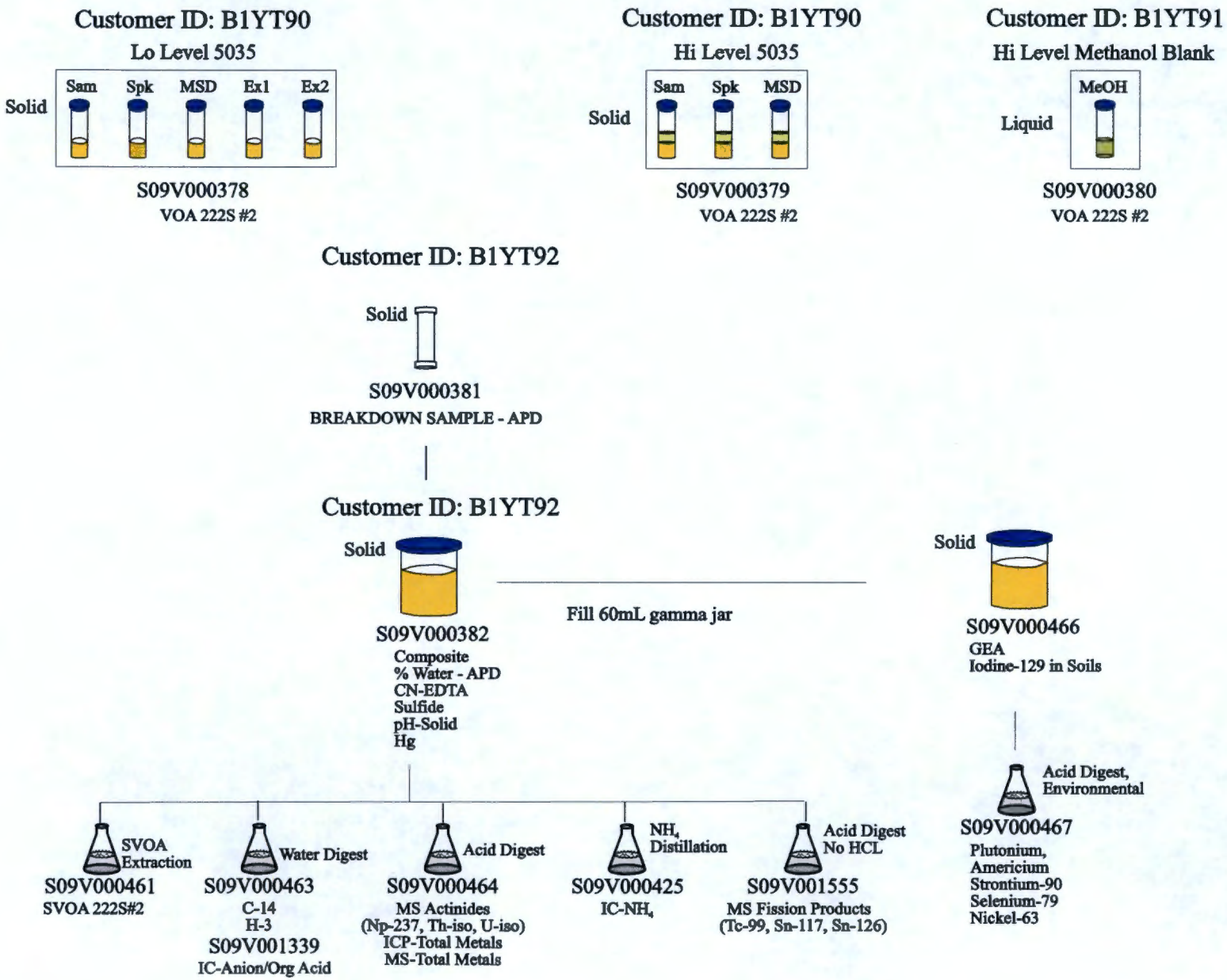
Vadose Zone: C Farm
Core No.: C6402
Group 20090452 (ATL)
Group 20090454 (Offsite)
Due: 8/31/09

Depth: 14-16 ft



Vadose Zone: C Farm
Core No.: C6404
Group 20090325 (ATL)
Group 20090329 (Offsite)

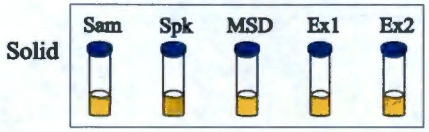
Depth: 6-8 ft



Vadose Zone: C Farm
Core No.: C6404
Group 20090325 (ATL)
Group 20090329 (Offsite)

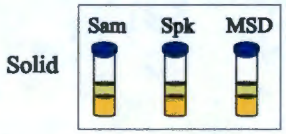
Depth: 10-12 ft

Customer ID: B1YT93
Lo Level 5035



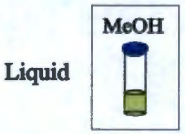
S09V000383
VOA 222S #2

Customer ID: B1YT93
Hi Level 5035

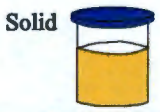


S09V000384
VOA 222S #2

Customer ID: B1YT94
Hi Level Methanol Blank



S09V000385
VOA 222S #2



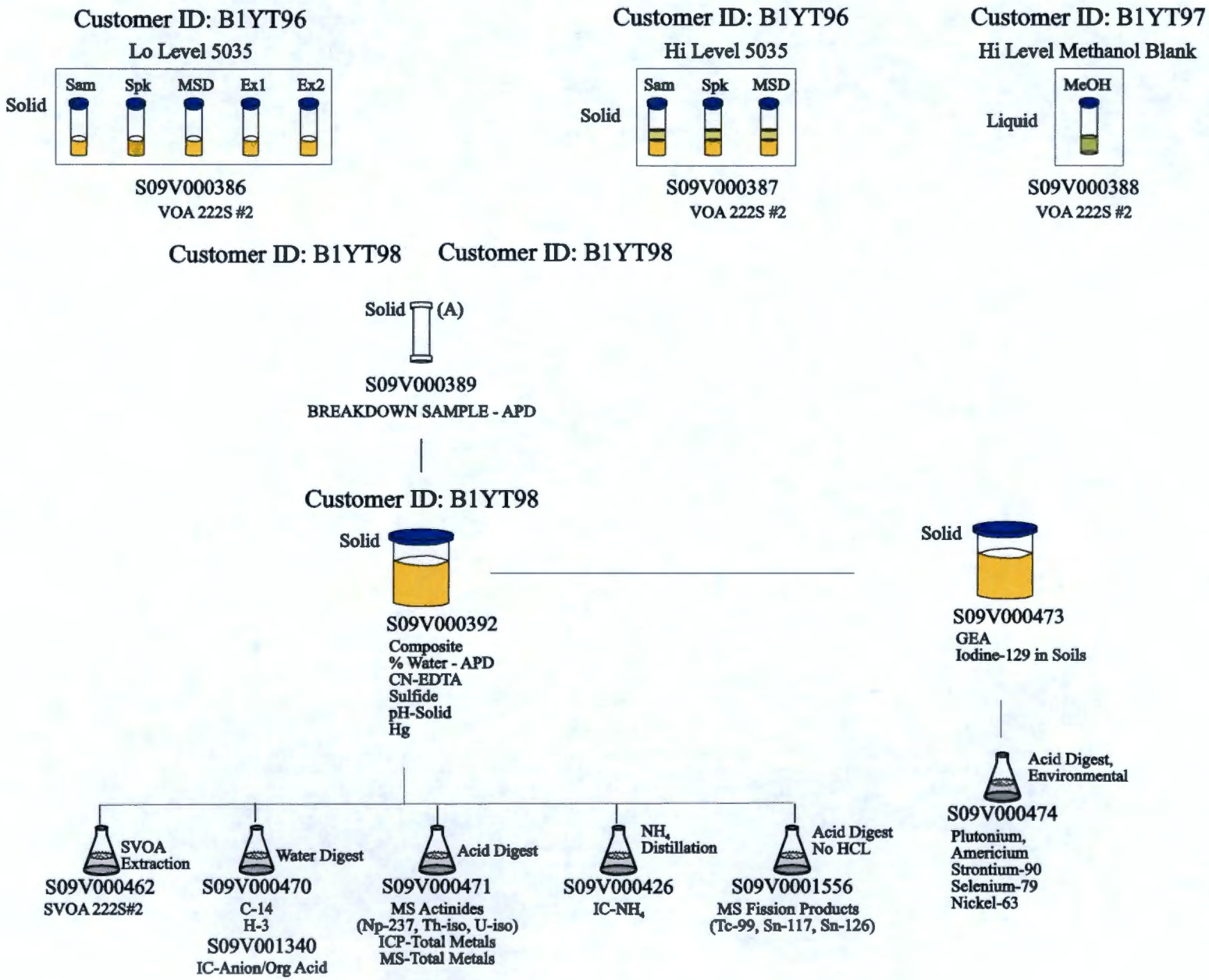
S09V000468
Iodine-129 in Soils

Acid Digest,
Environmental

S09V000469
Plutonium,
Americium
Strontium-90
Selenium-79
Nickel-63

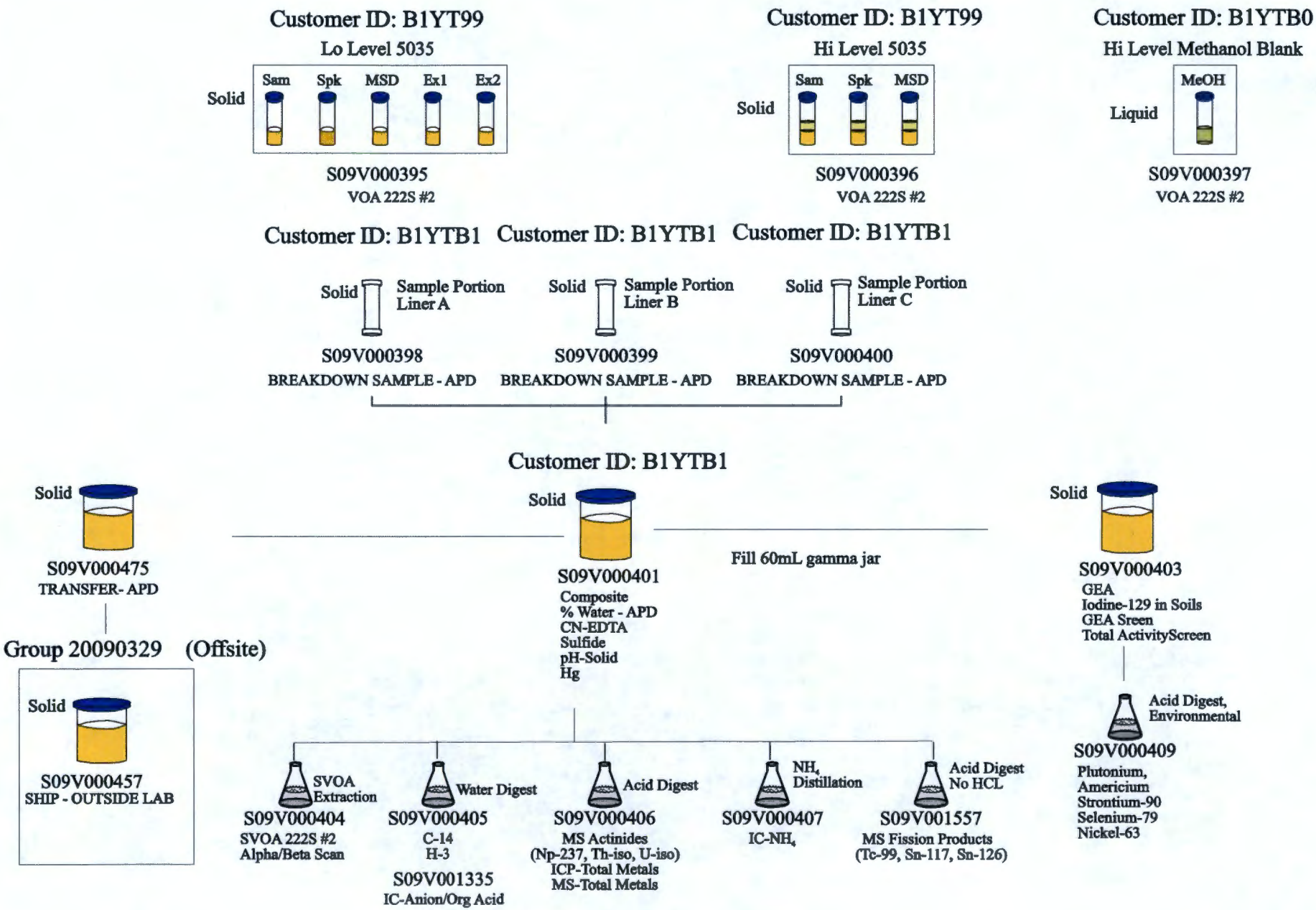
Vadose Zone: C Farm
Core No.: C6404
Group 20090325 (ATL)
Group 20090329 (Offsite)

Depth: 14-16 ft



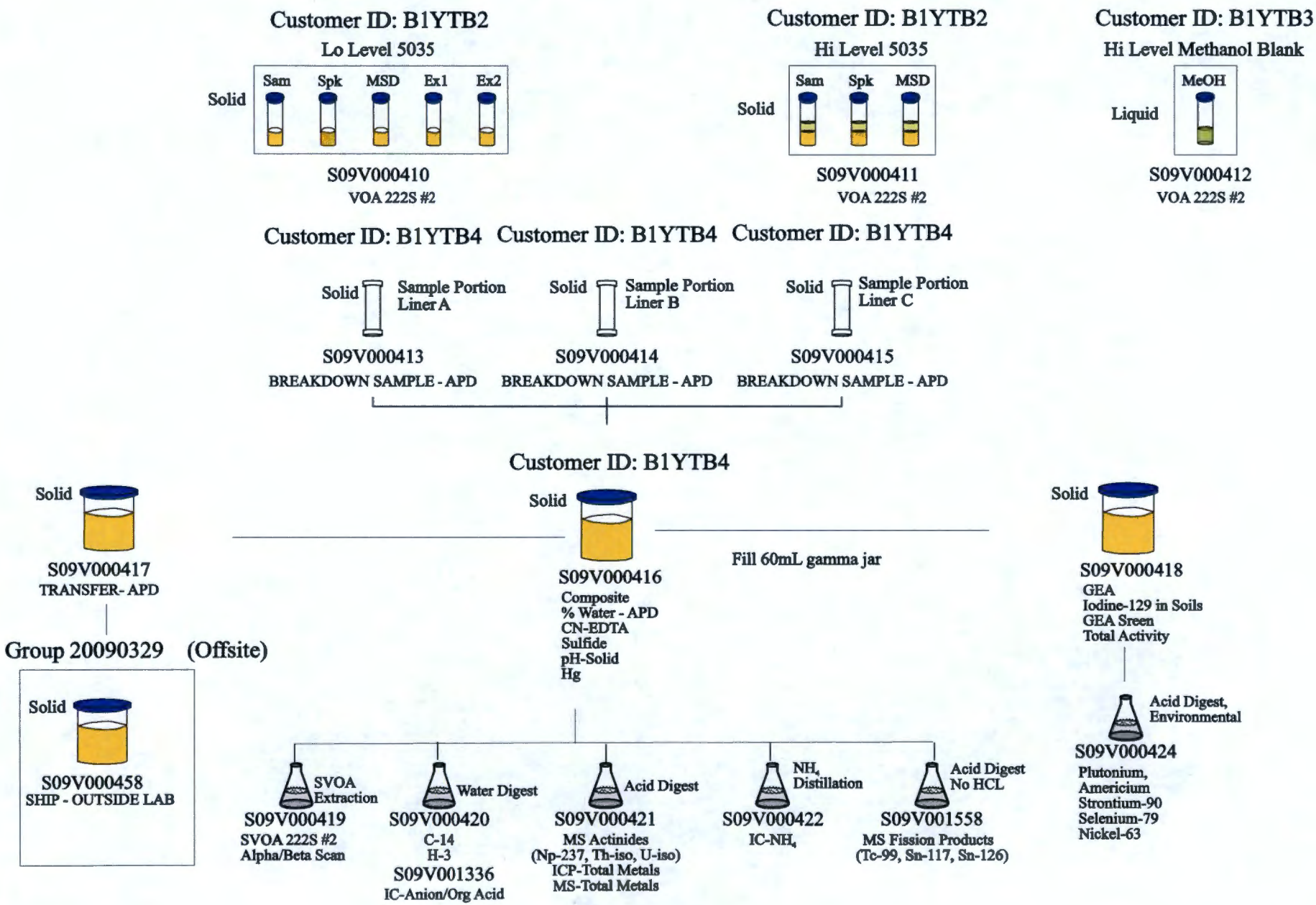
Vadose Zone: C Farm
Core No.: C6404
Group 20090325 (ATL)
Group 20090329 (Offsite)

Depth: 19.5-21.5 ft



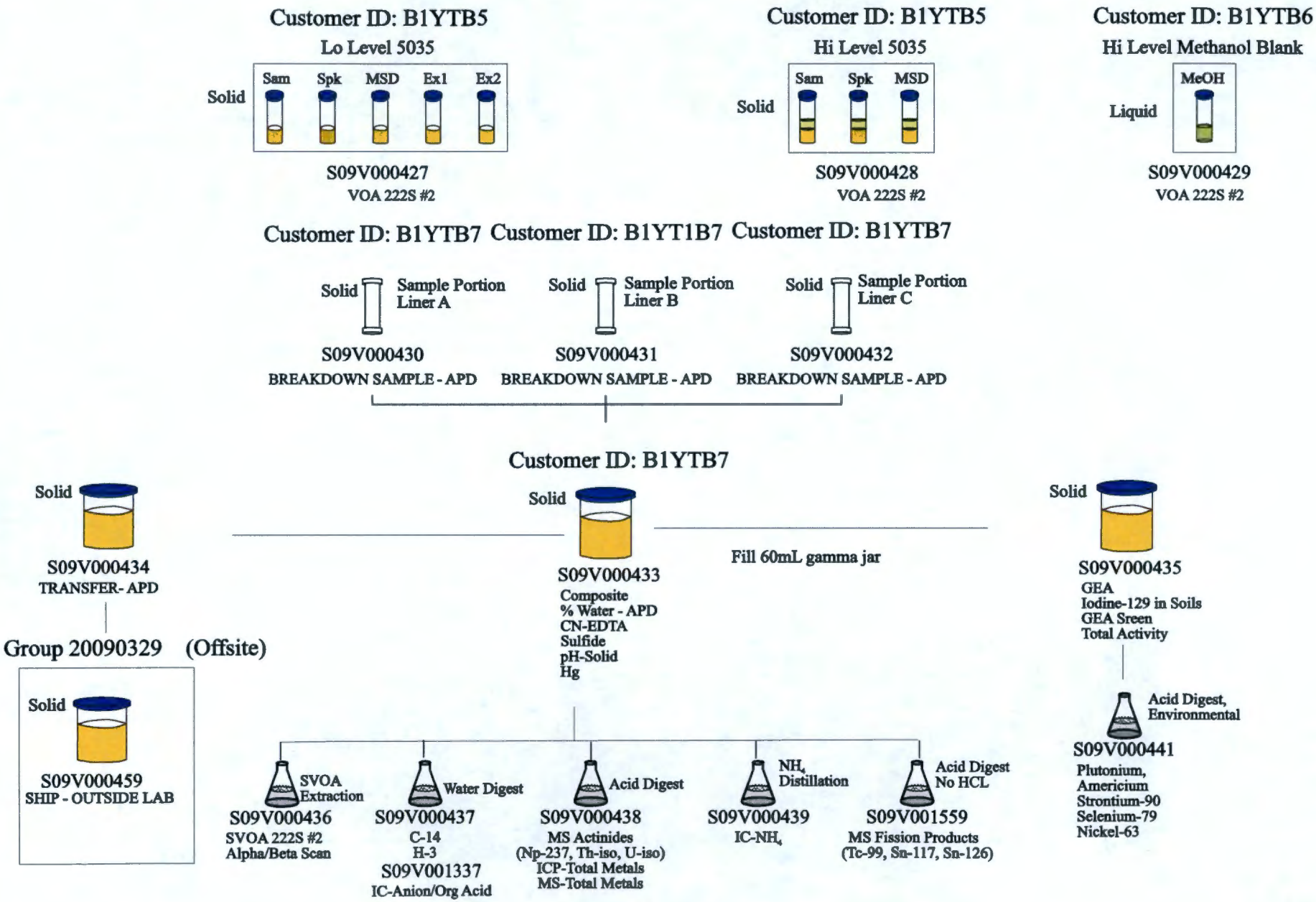
Vadose Zone: C Farm
Core No.: C6404
Group 20090325 (ATL)
Group 20090329 (Offsite)

Depth: 31.5-33.5 ft



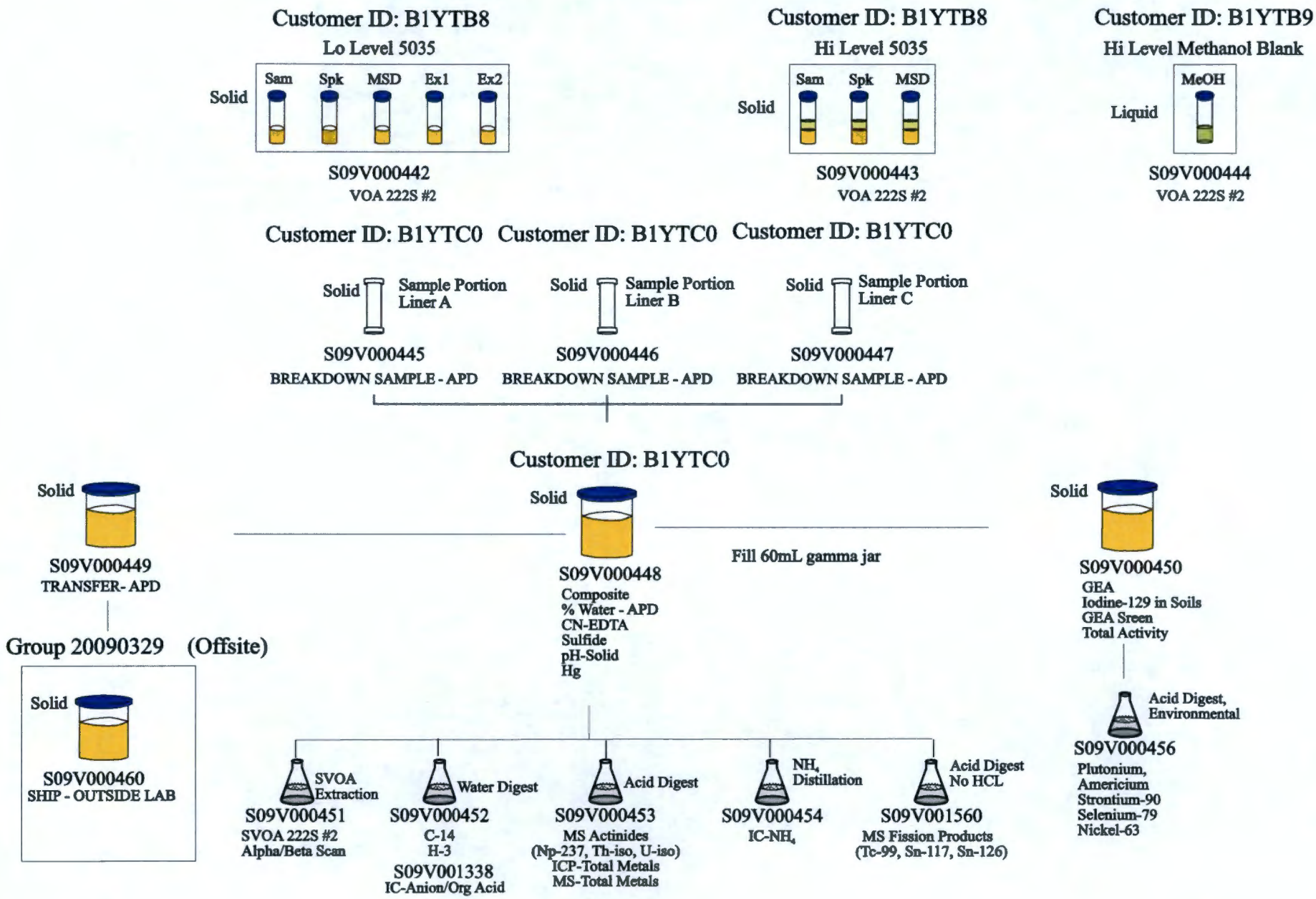
Vadose Zone: C Farm
Core No.: C6404
Group 20090325 (ATL)
Group 20090329 (Offsite)

Depth: 42-44 ft



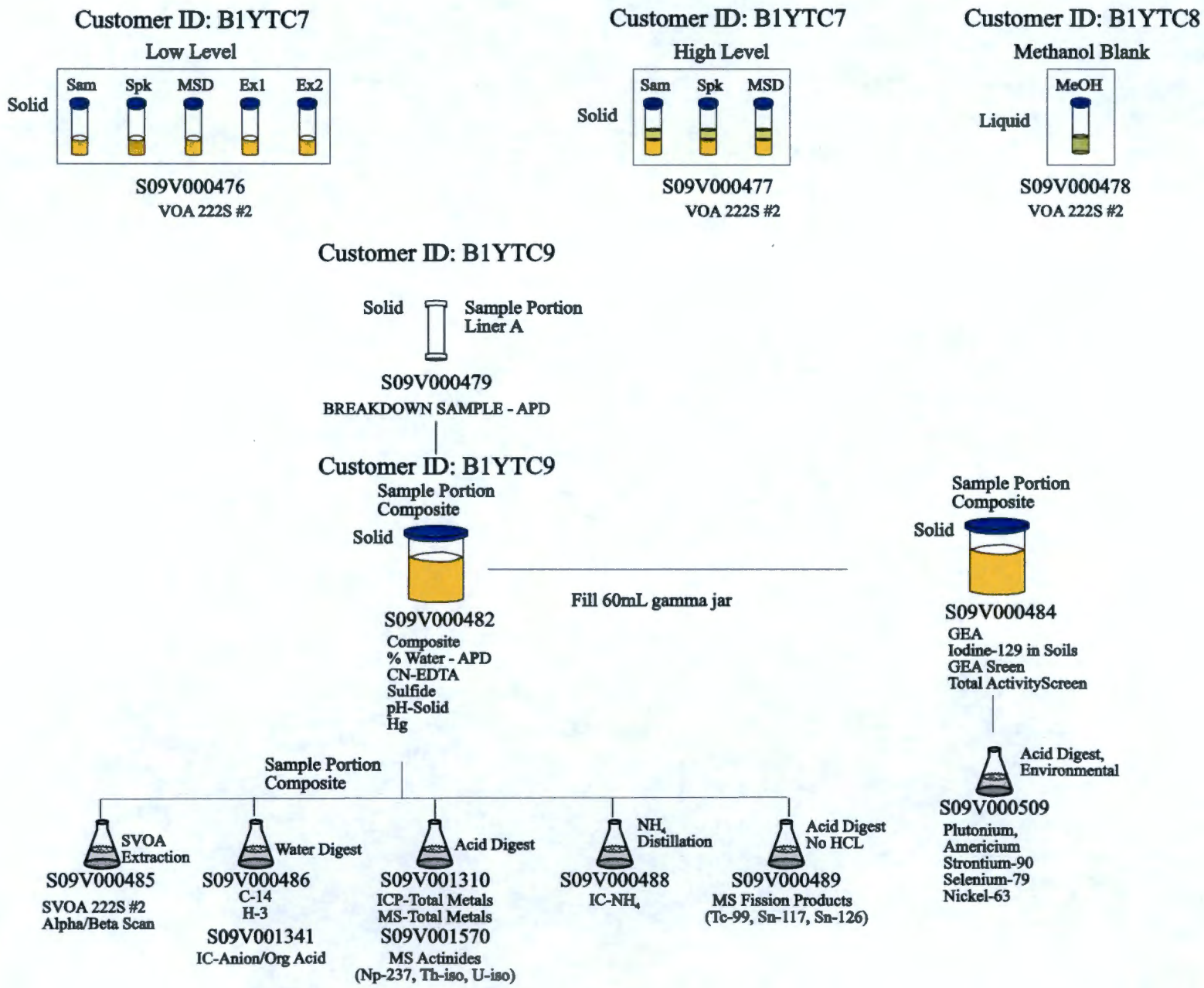
Vadose Zone: C Farm
Core No.: C6404
Group 20090325 (ATL)
Group 20090329 (Offsite)

Depth: 57-59 ft



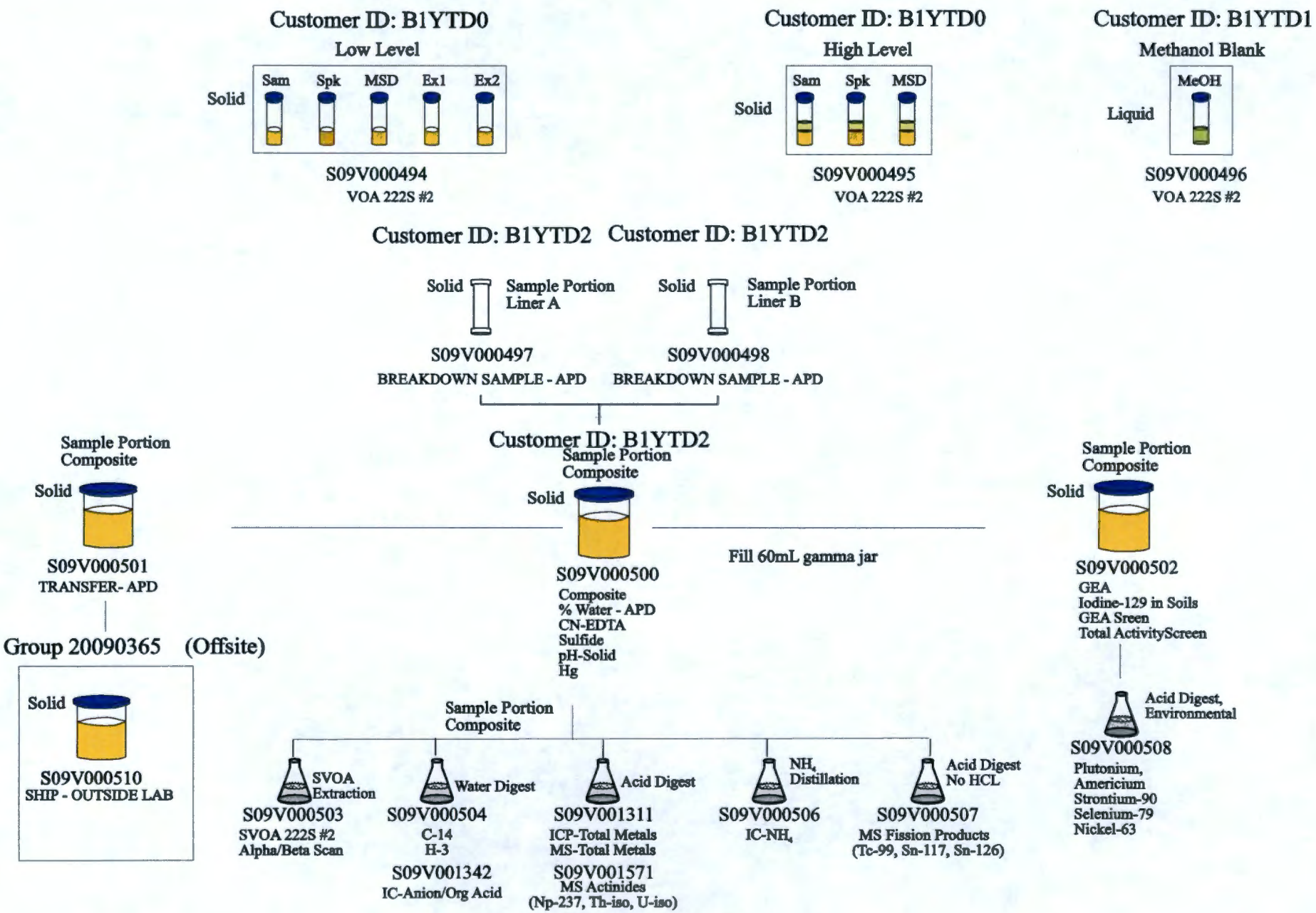
Vadose Zone: C Farm
Core No.: C6406
Group 20090364 (ATL)
Group 20090365(Offsite)

Depth: 5-7 ft



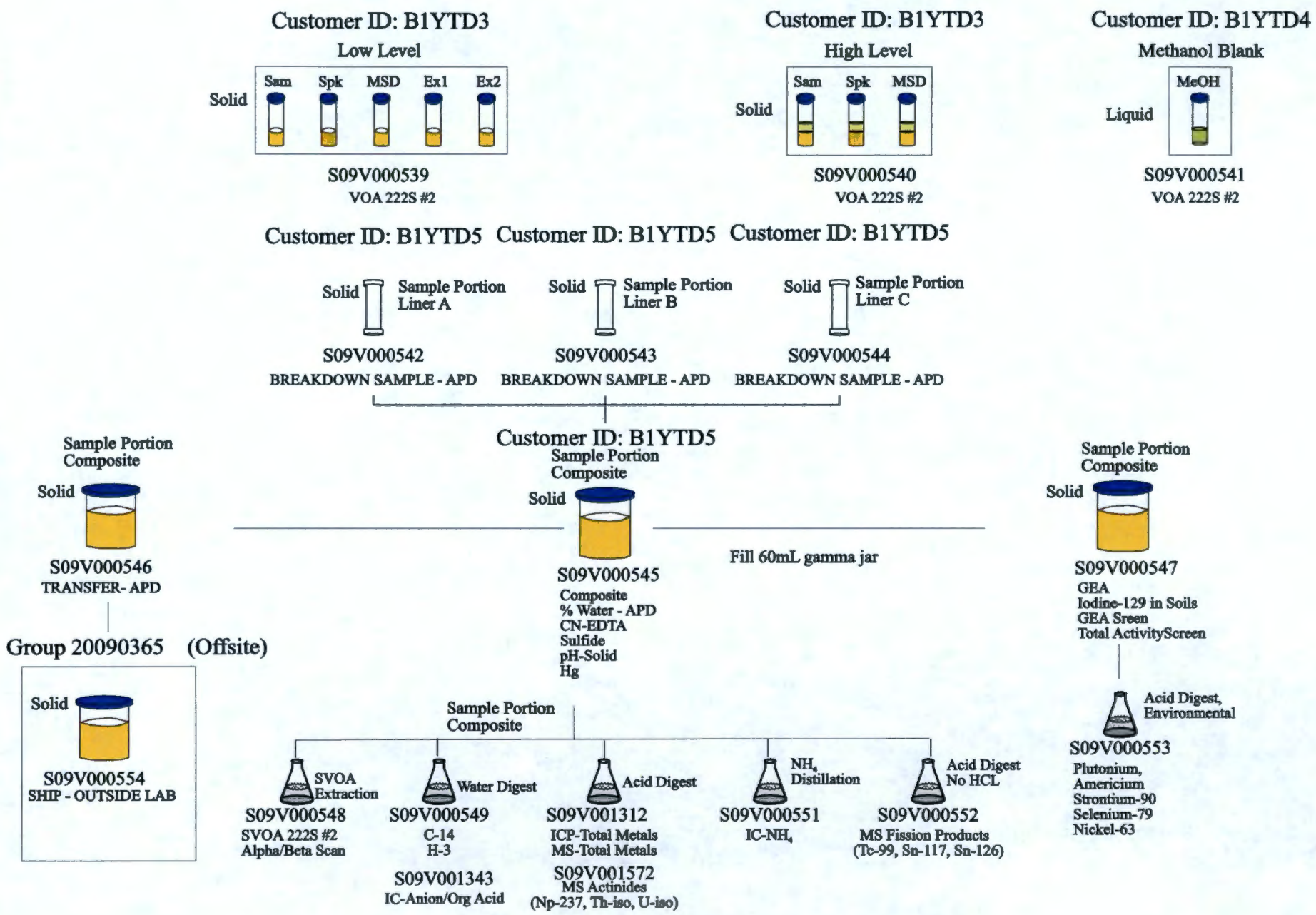
Vadose Zone: C Farm
Core No.: C6406
Group 20090364 (ATL)
Group 20090365(Offsite)

Depth: 10-12 ft



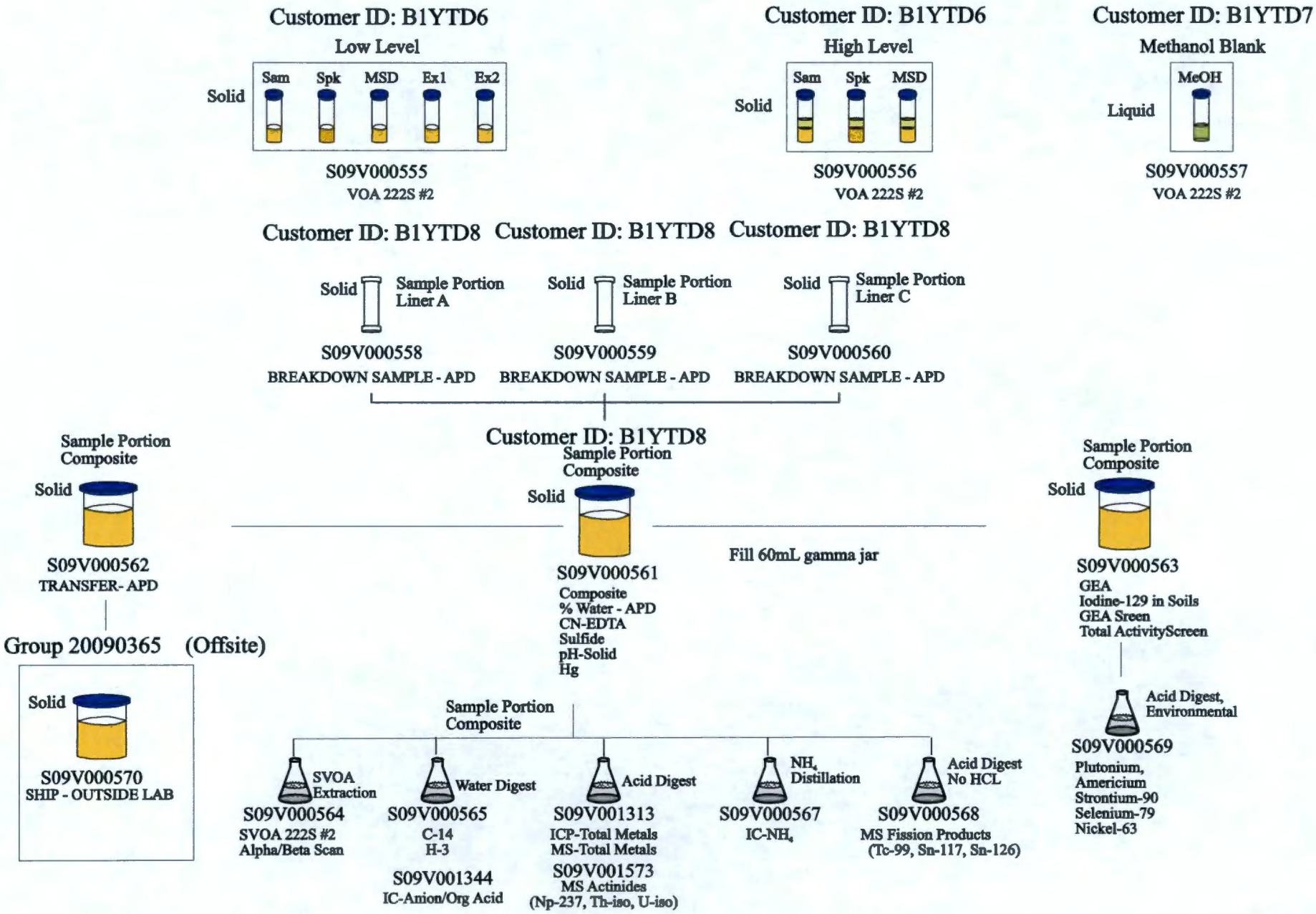
Vadose Zone: C Farm
Core No.: C6406
Group 20090364 (ATL)
Group 20090365(Offsite)

Depth: 14-16 ft



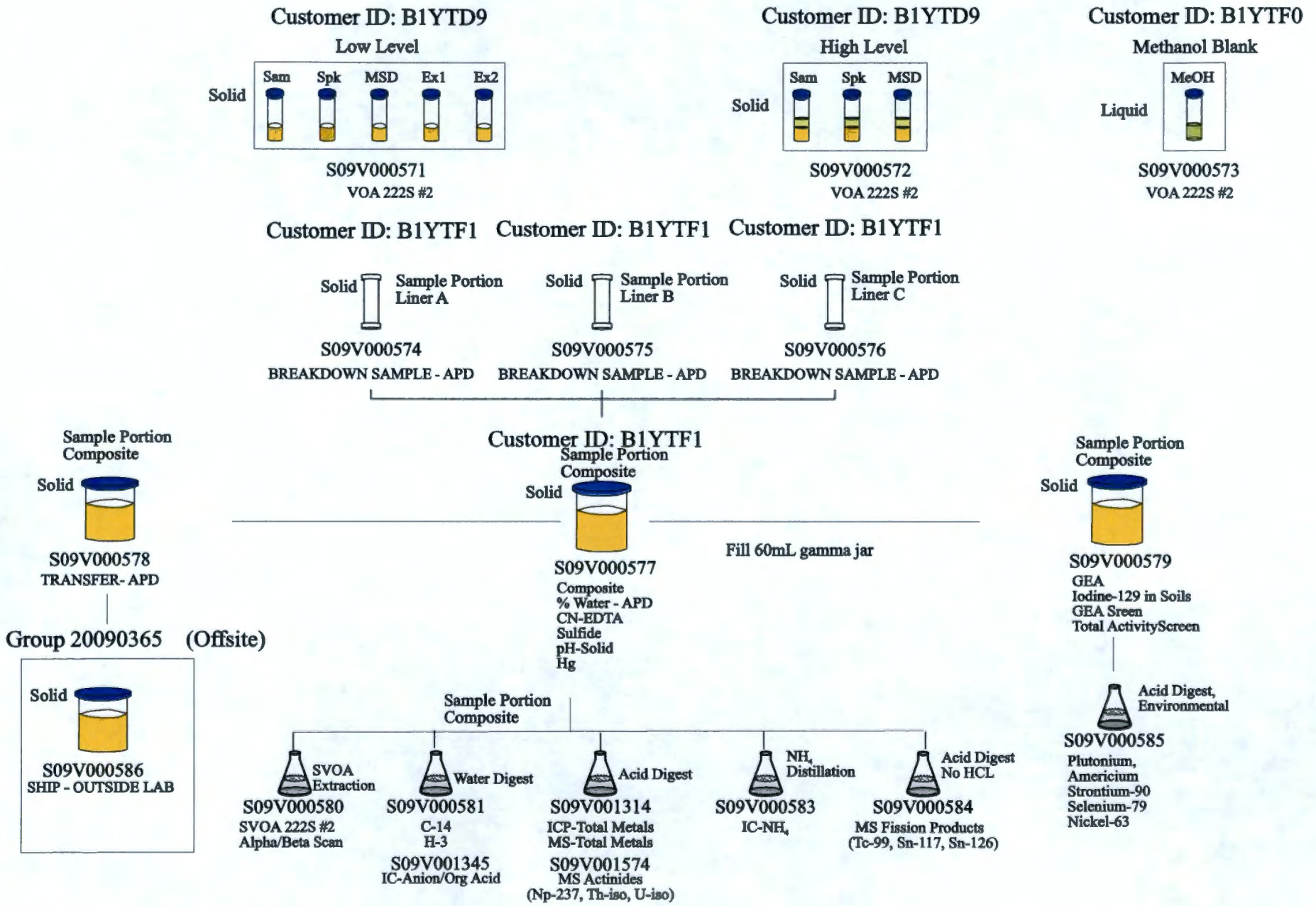
Vadose Zone: C Farm
Core No.: C6406
Group 20090364 (ATL)
Group 20090365(Offsite)

Depth: 18-20 ft



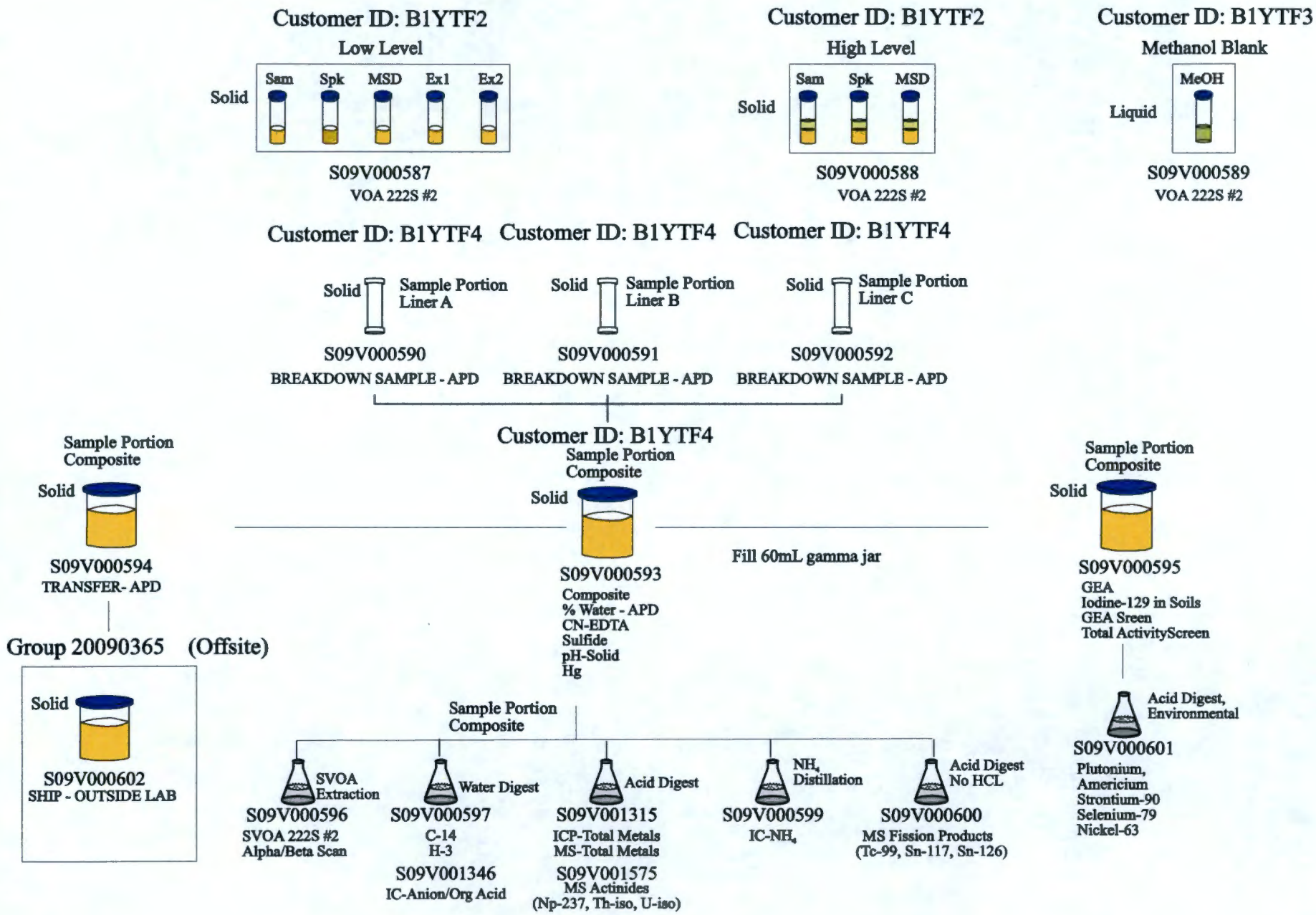
Vadose Zone: C Farm
Core No.: C6406
Group 20090364 (ATL)
Group 20090365(Offsite)

Depth: 26-28 ft



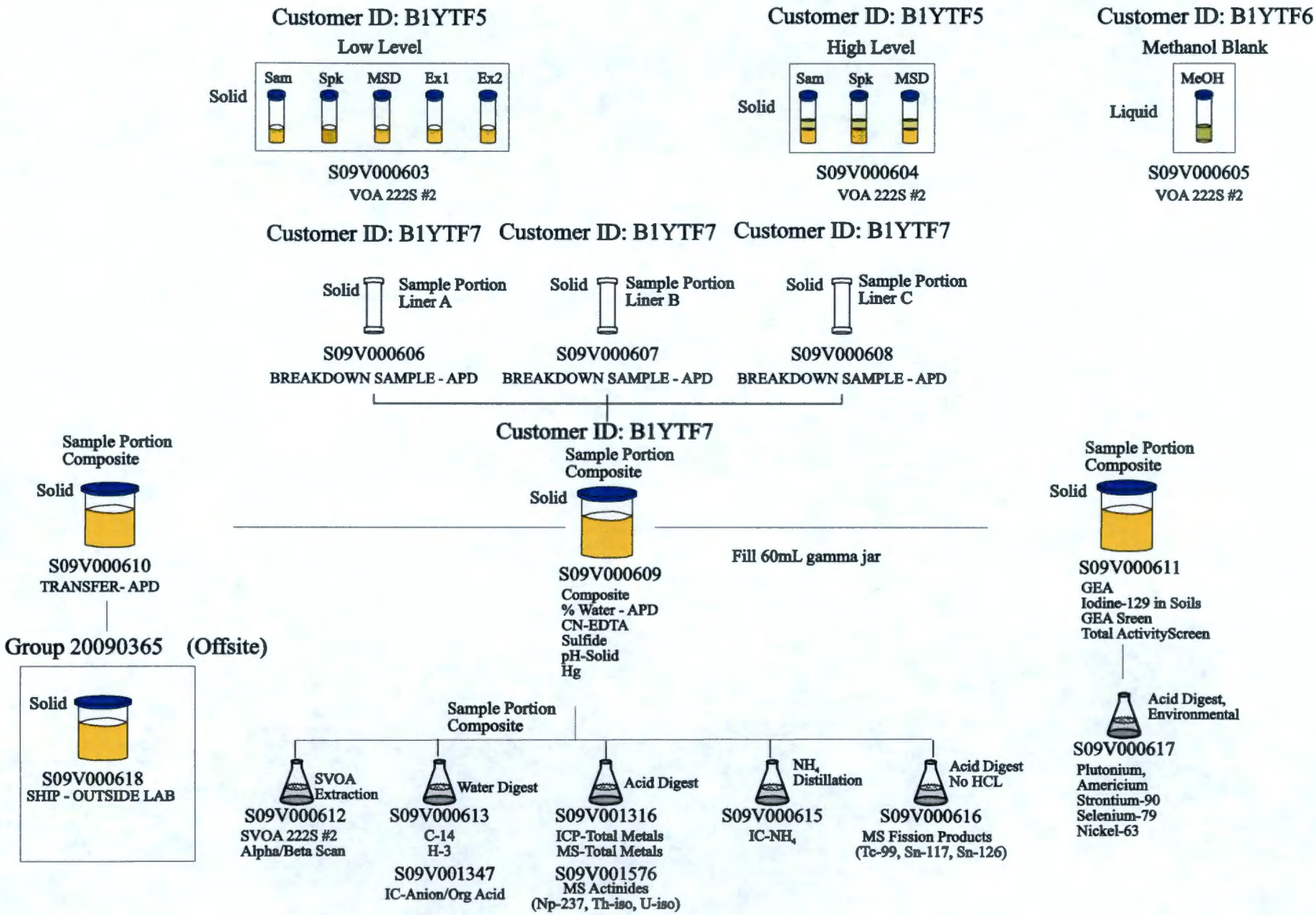
Vadose Zone: C Farm
Core No.: C6406
Group 20090364 (ATL)
Group 20090365(Offsite)

Depth: 54.5-56.5 ft



Vadose Zone: C Farm
Core No.: C6406
Group 20090364 (ATL)
Group 20090365(Offsite)

Depth: 59-61 ft



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
20090160	S09V000171	SOLID	SW846-9014	SW846-9010C	04/14/09 13:00	04/14/09 15:15	04/29/09 14:00	Y
20090160	S09V000172	SOLID	SW846-9014	SW846-9010C	04/21/09 10:41	04/21/09 13:30	04/29/09 14:00	N
20090160	S09V000173	SOLID	SW846-9014	SW846-9010C	04/22/09 10:00	04/22/09 13:13	04/29/09 14:00	N
20090160	S09V000174	SOLID	SW846-9014	SW846-9010C	04/30/09 10:15	04/30/09 15:10	05/07/09 02:15	N
20090160	S09V000175	SOLID	SW846-9014	SW846-9010C	04/30/09 14:25	04/30/09 15:10	05/07/09 02:15	N
20090325	S09V000382	SOLID	SW846-9014	SW846-9010C	05/04/09 10:20	05/04/09 14:00	05/14/09 10:40	N
20090325	S09V000392	SOLID	SW846-9014	SW846-9010C	05/06/09 10:40	05/06/09 13:10	05/14/09 10:40	N
20090325	S09V000401	SOLID	SW846-9014	SW846-9010C	05/13/09 09:30	05/13/09 11:01	05/26/09 14:41	N
20090325	S09V000416	SOLID	SW846-9014	SW846-9010C	05/18/09 09:20	05/18/09 14:55	05/26/09 14:41	N
20090325	S09V000433	SOLID	SW846-9014	SW846-9010C	05/18/09 11:40	05/18/09 14:55	05/26/09 14:41	N
20090325	S09V000448	SOLID	SW846-9014	SW846-9010C	05/19/09 09:45	05/19/09 13:30	05/26/09 14:41	N
20090364	S09V000482	SOLID	SW846-9014	SW846-9010C	06/03/09 11:20	06/03/09 15:30	06/16/09 13:29	N
20090364	S09V000500	SOLID	SW846-9014	SW846-9010C	06/03/09 14:25	06/03/09 15:30	06/16/09 13:29	N
20090364	S09V000545	SOLID	SW846-9014	SW846-9010C	06/04/09 09:34	06/04/09 14:45	06/16/09 13:29	N
20090364	S09V000561	SOLID	SW846-9014	SW846-9010C	06/04/09 10:30	06/04/09 14:45	06/16/09 13:29	N
20090364	S09V000577	SOLID	SW846-9014	SW846-9010C	06/04/09 13:28	06/04/09 14:45	06/16/09 13:29	N
20090364	S09V000593	SOLID	SW846-9014	SW846-9010C	06/09/09 09:20	06/09/09 14:30	06/16/09 13:29	N
20090364	S09V000609	SOLID	SW846-9014	SW846-9010C	06/09/09 10:55	06/09/09 14:30	06/16/09 13:29	N
20090377	S09V000626	SOLID	SW846-9014	SW846-9010C	05/21/09 09:24	05/21/09 13:22	06/04/09 10:44	N
20090377	S09V000642	SOLID	SW846-9014	SW846-9010C	05/21/09 10:21	05/21/09 13:22	06/04/09 10:44	N
20090377	S09V000658	SOLID	SW846-9014	SW846-9010C	06/01/09 11:35	06/01/09 14:00	06/04/09 10:44	N
20090452	S09V000727	SOLID	SW846-9014	SW846-9010C	06/15/09 09:35	06/15/09 13:52	06/25/09 14:39	N
20090452	S09V000740	SOLID	SW846-9014	SW846-9010C	06/15/09 10:17	06/15/09 13:52	06/25/09 14:39	N
20090452	S09V000753	SOLID	SW846-9014	SW846-9010C	06/15/09 10:53	06/15/09 13:52	06/25/09 14:39	N

Holding Time Report Mercury

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20090160	S09V000171	SOLID	SW846-7471B	SW846-7471B	04/14/09 13:00	04/14/09 15:15	05/05/09 02:39	N
20090160	S09V000172	SOLID	SW846-7471B	SW846-7471B	04/21/09 10:41	04/21/09 13:30	05/05/09 02:39	N
20090160	S09V000173	SOLID	SW846-7471B	SW846-7471B	04/22/09 10:00	04/22/09 13:13	05/05/09 02:39	N
20090160	S09V000174	SOLID	SW846-7471B	SW846-7471B	04/30/09 10:15	04/30/09 15:10	06/10/09 15:32	Y
20090160	S09V000175	SOLID	SW846-7471B	SW846-7471B	04/30/09 14:25	04/30/09 15:10	06/10/09 15:32	Y
20090325	S09V000382	SOLID	SW846-7471B	SW846-7471B	05/04/09 10:20	05/04/09 14:00	05/26/09 15:30	N
20090325	S09V000392	SOLID	SW846-7471B	SW846-7471B	05/06/09 10:40	05/06/09 13:10	06/10/09 15:32	Y
20090325	S09V000401	SOLID	SW846-7471B	SW846-7471B	05/13/09 09:30	05/13/09 11:01	05/26/09 15:30	N
20090325	S09V000416	SOLID	SW846-7471B	SW846-7471B	05/18/09 09:20	05/18/09 14:55	05/26/09 15:30	N
20090325	S09V000433	SOLID	SW846-7471B	SW846-7471B	05/18/09 11:40	05/18/09 14:55	05/26/09 15:30	N
20090325	S09V000448	SOLID	SW846-7471B	SW846-7471B	05/19/09 09:45	05/19/09 13:30	05/26/09 15:30	N
20090377	S09V000626	SOLID	SW846-7471B	SW846-7471B	05/21/09 09:24	05/21/09 13:22	06/10/09 15:32	N
20090377	S09V000642	SOLID	SW846-7471B	SW846-7471B	05/21/09 10:21	05/21/09 13:22	06/10/09 15:32	N
20090377	S09V000658	SOLID	SW846-7471B	SW846-7471B	06/01/09 11:35	06/01/09 14:00	06/10/09 15:32	N
20090364	S09V000482	SOLID	SW846-7471B	SW846-7471B	06/03/09 11:20	06/03/09 15:30	06/10/09 15:32	N
20090364	S09V000500	SOLID	SW846-7471B	SW846-7471B	06/03/09 14:25	06/03/09 15:30	06/10/09 15:32	N
20090364	S09V000545	SOLID	SW846-7471B	SW846-7471B	06/04/09 09:34	06/04/09 14:45	06/10/09 15:32	N
20090364	S09V000561	SOLID	SW846-7471B	SW846-7471B	06/04/09 10:30	06/04/09 14:45	06/10/09 15:32	N
20090364	S09V000577	SOLID	SW846-7471B	SW846-7471B	06/04/09 13:28	06/04/09 14:45	06/10/09 15:32	N
20090364	S09V000593	SOLID	SW846-7471B	SW846-7471B	06/09/09 09:20	06/09/09 14:30	06/30/09 14:39	N
20090364	S09V000609	SOLID	SW846-7471B	SW846-7471B	06/09/09 10:55	06/09/09 14:30	06/30/09 14:39	N
20090452	S09V000727	SOLID	SW846-7471B	SW846-7471B	06/15/09 09:35	06/15/09 13:52	06/30/09 14:39	N
20090452	S09V000740	SOLID	SW846-7471B	SW846-7471B	06/15/09 10:17	06/15/09 13:52	06/30/09 14:39	N
20090452	S09V000753	SOLID	SW846-7471B	SW846-7471B	06/15/09 10:53	06/15/09 13:52	06/30/09 14:39	N

Hold Time Report IC Anions

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090160	S09V001330	SOLID	SW846-9056A	Water Digest	04/14/09 13:00	04/16/09 15:30	11/3/2009 08:30	11/04/09 20:14	N
20090160	S09V001331	SOLID	SW846-9056A	Water Digest	04/21/09 10:41	04/21/09 13:30	11/3/2009 08:30	11/04/09 21:50	N
20090160	S09V001332	SOLID	SW846-9056A	Water Digest	04/22/09 10:00	04/22/09 13:13	11/3/2009 08:30	11/04/09 22:22	N
20090160	S09V001333	SOLID	SW846-9056A	Water Digest	04/30/09 10:15	04/30/09 15:10	11/3/2009 08:30	11/04/09 22:54	N
20090160	S09V001334	SOLID	SW846-9056A	Water Digest	04/30/09 14:25	04/30/09 15:10	11/3/2009 08:30	11/04/09 23:26	N
20090325	S09V001340	SOLID	SW846-9056A	Water Digest	05/06/09 10:40	05/06/09 13:10	11/4/2009 10:00	11/05/09 23:00	N
20090325	S09V001335	SOLID	SW846-9056A	Water Digest	05/13/09 09:30	05/13/09 11:01	11/4/2009 10:00	11/05/09 19:16	N
20090325	S09V001336	SOLID	SW846-9056A	Water Digest	05/18/09 09:20	05/18/09 14:55	11/4/2009 10:00	11/05/09 20:52	N
20090325	S09V001337	SOLID	SW846-9056A	Water Digest	05/18/09 11:40	05/18/09 14:55	11/4/2009 10:00	11/05/09 21:24	N
20090325	S09V001338	SOLID	SW846-9056A	Water Digest	05/19/09 09:45	05/19/09 13:30	11/4/2009 10:00	11/05/09 21:56	N
20090325	S09V001339	SOLID	SW846-9056A	Water Digest	05/04/09 10:20	05/04/09 14:00	11/4/2009 10:00	11/05/09 22:28	N
20090364	S09V001341	SOLID	SW846-9056A	Water Digest	06/03/09 11:20	06/05/09 09:13	11/9/2009 09:00	11/11/09 00:37	N
20090364	S09V001342	SOLID	SW846-9056A	Water Digest	06/03/09 14:25	06/03/09 15:30	11/9/2009 09:00	11/11/09 02:13	N
20090364	S09V001343	SOLID	SW846-9056A	Water Digest	06/04/09 09:34	06/04/09 14:45	11/9/2009 09:00	11/11/09 02:45	N
20090364	S09V001344	SOLID	SW846-9056A	Water Digest	06/04/09 10:30	06/04/09 14:45	11/9/2009 09:00	11/11/09 03:17	N
20090364	S09V001345	SOLID	SW846-9056A	Water Digest	06/04/09 13:28	06/04/09 14:45	11/9/2009 09:00	11/11/09 03:49	N
20090364	S09V001346	SOLID	SW846-9056A	Water Digest	06/09/09 09:20	06/09/09 14:30	11/9/2009 09:00	11/11/09 04:21	N
20090377	S09V001348	SOLID	SW846-9056A	Water Digest	05/21/09 09:24	05/21/09 13:22	12/01/2009 10:30	12/02/09 20:08	N
20090377	S09V001349	SOLID	SW846-9056A	Water Digest	05/21/09 10:21	05/21/09 13:22	12/01/2009 10:30	12/02/09 21:44	N
20090377	S09V001350	SOLID	SW846-9056A	Water Digest	06/01/09 11:35	06/01/09 14:00	12/01/2009 10:30	12/02/09 22:16	N
20090452	S09V001352	SOLID	SW846-9056A	Water Digest	06/15/09 10:17	06/15/09 13:52	12/01/2009 10:30	12/02/09 22:48	N
20090452	S09V001353	SOLID	SW846-9056A	Water Digest	06/15/09 10:53	06/15/09 13:52	12/01/2009 10:30	12/02/09 23:20	N

Hold Time Report **ICP/MS Tc-99 and Sn-126**

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090160	S09V000211	SOLID	LA-506-102	SW846-3050B	04/14/09 13:00	04/14/09 15:30	07/06/09 00:00	09/28/09 14:21	N
20090160	S09V000212	SOLID	LA-506-102	SW846-3050B	04/21/09 10:41	04/21/09 13:30	07/06/09 00:00	09/28/09 12:56	N
20090160	S09V000213	SOLID	LA-506-102	SW846-3050B	04/22/09 10:00	04/22/09 13:13	07/06/09 00:00	09/28/09 13:02	N
20090160	S09V000214	SOLID	LA-506-102	SW846-3050B	04/30/09 10:15	04/30/09 15:10	07/06/09 00:00	09/28/09 13:09	N
20090160	S09V001554	SOLID	LA-506-102	SW846-3050B	04/30/09 14:25	04/30/09 15:10	12/02/09 00:00	12/03/09 12:30	Y
20090325	S09V001555	SOLID	LA-506-102	SW846-3050B	05/04/09 10:20	05/04/09 14:00	12/01/09 00:00	12/02/09 11:30	Y
20090325	S09V001556	SOLID	LA-506-102	SW846-3050B	05/06/09 10:40	05/06/09 13:10	12/01/09 00:00	12/02/09 14:01	Y
20090325	S09V001557	SOLID	LA-506-102	SW846-3050B	05/13/09 09:30	05/13/09 11:01	12/01/09 00:00	12/02/09 11:50	Y
20090325	S09V001558	SOLID	LA-506-102	SW846-3050B	05/18/09 09:20	05/18/09 14:55	12/01/09 00:00	12/02/09 11:57	Y
20090325	S09V001559	SOLID	LA-506-102	SW846-3050B	05/18/09 11:40	05/18/09 14:55	12/01/09 00:00	12/02/09 12:04	Y
20090325	S09V001560	SOLID	LA-506-102	SW846-3050B	05/19/09 09:45	05/19/09 13:30	12/01/09 00:00	12/02/09 12:11	Y
20090364	S09V000489	SOLID	LA-506-102	SW846-3050B	06/03/09 11:20	06/05/09 09:13	08/13/09 00:00	11/09/09 12:17	N
20090364	S09V000507	SOLID	LA-506-102	SW846-3050B	06/03/09 14:25	06/03/09 15:30	08/13/09 00:00	11/09/09 12:24	N
20090364	S09V000552	SOLID	LA-506-102	SW846-3050B	06/04/09 09:34	06/04/09 14:45	08/13/09 00:00	11/09/09 12:04	N
20090364	S09V000568	SOLID	LA-506-102	SW846-3050B	06/04/09 10:30	06/04/09 14:45	08/13/09 00:00	11/09/09 12:31	N
20090364	S09V000584	SOLID	LA-506-102	SW846-3050B	06/04/09 13:28	06/04/09 14:45	08/13/09 00:00	11/09/09 12:38	N
20090364	S09V000600	SOLID	LA-506-102	SW846-3050B	06/09/09 09:20	06/09/09 14:30	08/13/09 00:00	11/09/09 12:45	N
20090364	S09V000616	SOLID	LA-506-102	SW846-3050B	06/09/09 10:55	06/09/09 14:30	08/13/09 00:00	11/09/09 12:52	N
20090377	S09V001551	SOLID	LA-506-102	SW846-3050B	05/21/09 09:24	05/21/09 13:22	11/18/09 00:00	11/19/09 12:02	Y
20090377	S09V001552	SOLID	LA-506-102	SW846-3050B	05/21/09 10:21	05/21/09 13:22	11/18/09 00:00	11/19/09 12:16	Y
20090377	S09V001553	SOLID	LA-506-102	SW846-3050B	06/01/09 11:35	06/01/09 14:00	11/18/09 00:00	11/19/09 12:23	N
20090452	S09V000733	SOLID	LA-506-102	SW846-3050B	06/15/09 09:35	06/15/09 13:52	08/05/09 00:00	10/28/09 12:26	N
20090452	S09V000746	SOLID	LA-506-102	SW846-3050B	06/15/09 10:17	06/15/09 13:52	08/05/09 00:00	10/28/09 12:39	N
20090452	S09V000759	SOLID	LA-506-102	SW846-3050B	06/15/09 10:53	06/15/09 13:52	08/05/09 00:00	10/28/09 12:46	N

Hold Time Report **ICP/MS Actinides**

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090160	S09V000195	SOLID	LA-506-102	SW846-3050B	04/14/09 13:00	04/14/09 15:30	07/06/09	07/14/09 12:48	N
20090160	S09V000196	SOLID	LA-506-102	SW846-3050B	04/21/09 10:41	04/21/09 13:30	07/06/09	07/14/09 14:13	N
20090160	S09V000197	SOLID	LA-506-102	SW846-3050B	04/22/09 10:00	04/22/09 13:13	07/06/09	07/14/09 14:22	N
20090160	S09V000198	SOLID	LA-506-102	SW846-3050B	04/30/09 10:15	04/30/09 15:10	07/06/09	07/14/09 14:31	N
20090160	S09V000199	SOLID	LA-506-102	SW846-3050B	04/30/09 14:25	04/30/09 15:10	07/14/09	10/29/09 11:32	Y
20090325	S09V000406	SOLID	LA-506-102	SW846-3050B	05/13/09 09:30	05/13/09 11:01	07/14/09	10/29/09 12:00	N
20090325	S09V000421	SOLID	LA-506-102	SW846-3050B	05/18/09 09:20	05/18/09 14:55	07/14/09	10/29/09 11:39	N
20090325	S09V000438	SOLID	LA-506-102	SW846-3050B	05/18/09 11:40	05/18/09 14:55	07/14/09	10/29/09 11:46	N
20090325	S09V000453	SOLID	LA-506-102	SW846-3050B	05/19/09 09:45	05/19/09 13:30	07/14/09	10/29/09 11:53	N
20090325	S09V000464	SOLID	LA-506-102	SW846-3050B	05/04/09 10:20	05/04/09 14:00	07/14/09	10/29/09 11:18	N
20090325	S09V000471	SOLID	LA-506-102	SW846-3050B	05/06/09 10:40	05/06/09 13:10	07/14/09	10/29/09 12:07	N
20090364	S09V001570	SOLID	LA-506-102	SW846-3050B	06/03/09 11:20	06/05/09 09:13	12/03/09	12/07/09 11:26	Y
20090364	S09V001571	SOLID	LA-506-102	SW846-3050B	06/03/09 14:25	06/03/09 15:30	12/03/09	12/07/09 11:33	Y
20090364	S09V001572	SOLID	LA-506-102	SW846-3050B	06/04/09 09:34	06/04/09 14:45	12/03/09	12/07/09 11:40	Y
20090364	S09V001573	SOLID	LA-506-102	SW846-3050B	06/04/09 10:30	06/04/09 14:45	12/03/09	12/07/09 11:47	Y
20090364	S09V001574	SOLID	LA-506-102	SW846-3050B	06/04/09 13:28	06/04/09 14:45	12/03/09	12/07/09 12:46	Y
20090364	S09V001575	SOLID	LA-506-102	SW846-3050B	06/09/09 09:20	06/09/09 14:30	12/03/09	12/07/09 12:53	Y
20090364	S09V001576	SOLID	LA-506-102	SW846-3050B	06/09/09 10:55	06/09/09 14:30	12/03/09	12/08/09 14:10	Y
20090377	S09V001565	SOLID	LA-506-102	SW846-3050B	05/21/09 09:24	05/21/09 13:22	12/03/09	12/08/09 14:03	Y
20090377	S09V001568	SOLID	LA-506-102	SW846-3050B	05/21/09 10:21	05/21/09 13:22	12/03/09	12/07/09 11:12	Y
20090377	S09V001569	SOLID	LA-506-102	SW846-3050B	06/01/09 11:35	06/01/09 14:00	12/03/09	12/07/09 11:19	Y
20090452	S09V001317	SOLID	LA-506-102	SW846-3050B	06/15/09 09:35	06/15/09 13:52	10/12/09	10/21/09 11:52	N
20090452	S09V001318	SOLID	LA-506-102	SW846-3050B	06/15/09 10:17	06/15/09 13:52	10/12/09	10/21/09 11:45	N
20090452	S09V001319	SOLID	LA-506-102	SW846-3050B	06/15/09 10:53	06/15/09 13:52	10/12/09	10/21/09 11:31	N

Hold Time Report ICP/MS SW846-6020A

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090160	S09V0001	SOLID	SW846-6020A	SW846-3050B	04/14/09 13:00	04/14/09 15:30	07/06/09	11/13/09 11:16	Y
20090160	S09V0001	SOLID	SW846-6020A	SW846-3050B	04/21/09 10:41	04/21/09 13:30	07/06/09	11/13/09 11:24	Y
20090160	S09V0001	SOLID	SW846-6020A	SW846-3050B	04/22/09 10:00	04/22/09 13:13	07/06/09	11/13/09 11:28	Y
20090160	S09V0001	SOLID	SW846-6020A	SW846-3050B	04/30/09 10:15	04/30/09 15:10	07/06/09	11/13/09 11:32	Y
20090160	S09V0001	SOLID	SW846-6020A	SW846-3050B	04/30/09 14:25	04/30/09 15:10	07/14/09	12/29/09 20:01	Y
20090325	S09V0004	SOLID	SW846-6020A	SW846-3050B	05/13/09 09:30	05/13/09 11:01	07/14/09	12/29/09 19:47	Y
20090325	S09V0004	SOLID	SW846-6020A	SW846-3050B	05/18/09 09:20	05/18/09 14:55	07/14/09	12/29/09 19:50	Y
20090325	S09V0004	SOLID	SW846-6020A	SW846-3050B	05/18/09 11:40	05/18/09 14:55	07/14/09	12/29/09 19:54	Y
20090325	S09V0004	SOLID	SW846-6020A	SW846-3050B	05/19/09 09:45	05/19/09 13:30	07/14/09	12/29/09 19:58	Y
20090325	S09V0004	SOLID	SW846-6020A	SW846-3050B	05/04/09 10:20	05/04/09 14:00	07/14/09	12/29/09 19:36	Y
20090325	S09V0004	SOLID	SW846-6020A	SW846-3050B	05/06/09 10:40	05/06/09 13:10	07/14/09	12/29/09 19:43	Y
20090364	S09V0013	SOLID	SW846-6020A	SW846-3050B	06/03/09 11:20	06/05/09 09:13	11/09/09	12/30/09 20:19	Y
20090364	S09V0013	SOLID	SW846-6020A	SW846-3050B	06/03/09 14:25	06/03/09 15:30	11/09/09	12/30/09 20:27	Y
20090364	S09V0013	SOLID	SW846-6020A	SW846-3050B	06/04/09 09:34	06/04/09 14:45	11/09/09	12/30/09 20:30	Y
20090364	S09V0013	SOLID	SW846-6020A	SW846-3050B	06/04/09 10:30	06/04/09 14:45	11/09/09	12/30/09 20:34	Y
20090364	S09V0013	SOLID	SW846-6020A	SW846-3050B	06/04/09 13:28	06/04/09 14:45	11/09/09	12/30/09 20:38	Y
20090364	S09V0013	SOLID	SW846-6020A	SW846-3050B	06/09/09 09:20	06/09/09 14:30	11/09/09	12/30/09 20:42	Y
20090364	S09V0013	SOLID	SW846-6020A	SW846-3050B	06/09/09 10:55	06/09/09 14:30	11/09/09	12/30/09 20:45	Y
20090377	S09V0006	SOLID	SW846-6020A	SW846-3050B	05/21/09 09:24	05/21/09 13:22	08/25/09	11/24/09 19:37	Y
20090377	S09V0006	SOLID	SW846-6020A	SW846-3050B	05/21/09 10:21	05/21/09 13:22	08/25/09	11/24/09 18:28	Y
20090377	S09V0006	SOLID	SW846-6020A	SW846-3050B	06/01/09 11:35	06/01/09 14:00	08/25/09	11/24/09 18:32	N
20090452	S09V0007	SOLID	SW846-6020A	SW846-3050B	06/15/09 09:35	06/15/09 13:52	08/05/09	12/28/09 18:18	Y
20090452	S09V0007	SOLID	SW846-6020A	SW846-3050B	06/15/09 10:17	06/15/09 13:52	08/05/09	12/28/09 18:25	Y
20090452	S09V0007	SOLID	SW846-6020A	SW846-3050B	06/15/09 10:53	06/15/09 13:52	08/05/09	12/28/09 18:28	Y

Hold Time Report **ICP/MS Tc-99 and Sn-126**

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090160	S09V000211	SOLID	LA-506-102	SW846-3050B	04/14/09 13:00	04/14/09 15:30	07/06/09	09/28/09 14:21	N
20090160	S09V000212	SOLID	LA-506-102	SW846-3050B	04/21/09 10:41	04/21/09 13:30	07/06/09	09/28/09 12:56	N
20090160	S09V000213	SOLID	LA-506-102	SW846-3050B	04/22/09 10:00	04/22/09 13:13	07/06/09	09/28/09 13:02	N
20090160	S09V000214	SOLID	LA-506-102	SW846-3050B	04/30/09 10:15	04/30/09 15:10	07/06/09	09/28/09 13:09	N
20090160	S09V001554	SOLID	LA-506-102	SW846-3050B	04/30/09 14:25	04/30/09 15:10	12/02/09	12/03/09 12:30	Y
20090325	S09V001555	SOLID	LA-506-102	SW846-3050B	05/04/09 10:20	05/04/09 14:00	12/01/09	12/02/09 11:30	Y
20090325	S09V001556	SOLID	LA-506-102	SW846-3050B	05/06/09 10:40	05/06/09 13:10	12/01/09	12/02/09 14:01	Y
20090325	S09V001557	SOLID	LA-506-102	SW846-3050B	05/13/09 09:30	05/13/09 11:01	12/01/09	12/02/09 11:50	Y
20090325	S09V001558	SOLID	LA-506-102	SW846-3050B	05/18/09 09:20	05/18/09 14:55	12/01/09	12/02/09 11:57	Y
20090325	S09V001559	SOLID	LA-506-102	SW846-3050B	05/18/09 11:40	05/18/09 14:55	12/01/09	12/02/09 12:04	Y
20090325	S09V001560	SOLID	LA-506-102	SW846-3050B	05/19/09 09:45	05/19/09 13:30	12/01/09	12/02/09 12:11	Y
20090364	S09V000489	SOLID	LA-506-102	SW846-3050B	06/03/09 11:20	06/05/09 09:13	08/13/09	11/09/09 12:17	N
20090364	S09V000507	SOLID	LA-506-102	SW846-3050B	06/03/09 14:25	06/03/09 15:30	08/13/09	11/09/09 12:24	N
20090364	S09V000552	SOLID	LA-506-102	SW846-3050B	06/04/09 09:34	06/04/09 14:45	08/13/09	11/09/09 12:04	N
20090364	S09V000568	SOLID	LA-506-102	SW846-3050B	06/04/09 10:30	06/04/09 14:45	08/13/09	11/09/09 12:31	N
20090364	S09V000584	SOLID	LA-506-102	SW846-3050B	06/04/09 13:28	06/04/09 14:45	08/13/09	11/09/09 12:38	N
20090364	S09V000600	SOLID	LA-506-102	SW846-3050B	06/09/09 09:20	06/09/09 14:30	08/13/09	11/09/09 12:45	N
20090364	S09V000616	SOLID	LA-506-102	SW846-3050B	06/09/09 10:55	06/09/09 14:30	08/13/09	11/09/09 12:52	N
20090377	S09V001551	SOLID	LA-506-102	SW846-3050B	05/21/09 09:24	05/21/09 13:22	11/18/09	11/19/09 12:02	Y
20090377	S09V001552	SOLID	LA-506-102	SW846-3050B	05/21/09 10:21	05/21/09 13:22	11/18/09	11/19/09 12:16	Y
20090377	S09V001553	SOLID	LA-506-102	SW846-3050B	06/01/09 11:35	06/01/09 14:00	11/18/09	11/19/09 12:23	N
20090452	S09V000733	SOLID	LA-506-102	SW846-3050B	06/15/09 09:35	06/15/09 13:52	08/05/09	10/28/09 12:26	N
20090452	S09V000746	SOLID	LA-506-102	SW846-3050B	06/15/09 10:17	06/15/09 13:52	08/05/09	10/28/09 12:39	N
20090452	S09V000759	SOLID	LA-506-102	SW846-3050B	06/15/09 10:53	06/15/09 13:52	08/05/09	10/28/09 12:46	N

Hold Time Report Ammonium

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090160	S09V000219	SOLID	EPA 300.7	Distillation	04/14/09 13:00	04/16/09 15:15	04/28/09 17:49	04/28/09 17:49	Y
20090160	S09V000220	SOLID	EPA 300.7	Distillation	04/21/09 10:41	04/21/09 13:30	04/28/09 18:57	04/28/09 18:57	N
20090160	S09V000221	SOLID	EPA 300.7	Distillation	04/22/09 10:00	04/22/09 13:13	04/28/09 19:14	04/28/09 19:14	N
20090160	S09V000222	SOLID	EPA 300.7	Distillation	04/30/09 10:15	04/30/09 15:10	05/06/09 00:00	05/06/09 17:25	N
20090160	S09V000223	SOLID	EPA 300.7	Distillation	04/30/09 14:25	04/30/09 15:10	05/06/09 00:00	05/06/09 18:16	N
20090325	S09V000407	SOLID	EPA 300.7	Distillation	05/13/09 09:30	05/13/09 11:01	05/19/09 00:00	05/19/09 15:33	N
20090325	S09V000422	SOLID	EPA 300.7	Distillation	05/18/09 09:20	05/18/09 14:55	05/21/09 00:00	05/21/09 17:05	N
20090325	S09V000425	SOLID	EPA 300.7	Distillation	05/04/09 10:20	05/04/09 14:00	05/12/09 00:00	05/14/09 17:26	Y
20090325	S09V000426	SOLID	EPA 300.7	Distillation	05/06/09 10:40	05/06/09 13:10	05/12/09 00:00	05/14/09 16:18	N
20090325	S09V000439	SOLID	EPA 300.7	Distillation	05/18/09 11:40	05/18/09 14:55	05/21/09 00:00	05/21/09 18:13	N
20090325	S09V000454	SOLID	EPA 300.7	Distillation	05/19/09 09:45	05/19/09 13:30	05/21/09 00:00	05/21/09 18:30	N
20090364	S09V000488	SOLID	EPA 300.7	Distillation	06/03/09 11:20	06/05/09 09:13	06/09/09 00:00	06/09/09 17:17	N
20090364	S09V000506	SOLID	EPA 300.7	Distillation	06/03/09 14:25	06/03/09 15:30	06/09/09 00:00	06/09/09 18:25	N
20090364	S09V000551	SOLID	EPA 300.7	Distillation	06/04/09 09:34	06/04/09 14:45	06/09/09 00:00	06/09/09 18:42	N
20090364	S09V000567	SOLID	EPA 300.7	Distillation	06/04/09 10:30	06/04/09 14:45	06/09/09 00:00	06/09/09 18:59	N
20090364	S09V000583	SOLID	EPA 300.7	Distillation	06/04/09 13:28	06/04/09 14:45	06/09/09 00:00	06/09/09 19:50	N
20090364	S09V000599	SOLID	EPA 300.7	Distillation	06/09/09 09:20	06/09/09 14:30	06/16/09 00:00	06/18/09 22:31	N
20090364	S09V000615	SOLID	EPA 300.7	Distillation	06/09/09 10:55	06/09/09 14:30	06/16/09 00:00	06/18/09 23:39	N
20090377	S09V000632	SOLID	EPA 300.7	Distillation	05/21/09 09:24	05/21/09 13:22	06/03/09 00:00	06/03/09 20:27	Y
20090377	S09V000648	SOLID	EPA 300.7	Distillation	05/21/09 10:21	05/21/09 13:22	06/03/09 00:00	06/03/09 21:35	Y
20090377	S09V000664	SOLID	EPA 300.7	Distillation	06/01/09 11:35	06/01/09 14:00	06/03/09 00:00	06/03/09 21:52	N
20090452	S09V000732	SOLID	EPA 300.7	Distillation	06/15/09 09:35	06/15/09 13:52	06/18/09 00:00	06/19/09 02:45	N
20090452	S09V000745	SOLID	EPA 300.7	Distillation	06/15/09 10:17	06/15/09 13:52	06/18/09 00:00	06/19/09 01:21	N
20090452	S09V000758	SOLID	EPA 300.7	Distillation	06/15/09 10:53	06/15/09 13:52	06/18/09 00:00	06/19/09 03:02	N

Analysis Time Report for pH

Sample Group	Sample	Matrix	Method	Sample Date	Received Date	Analysis Date	Days Lapsed
20090160	S09V000171	SOLID	SW846-9045D	04/14/09 13:00	04/14/09 15:15	04/21/09 10:03	7
20090160	S09V000172	SOLID	SW846-9045D	04/21/09 10:41	04/21/09 13:30	04/24/09 21:45	3
20090160	S09V000173	SOLID	SW846-9045D	04/22/09 10:00	04/22/09 13:13	04/24/09 21:45	2
20090160	S09V000174	SOLID	SW846-9045D	04/30/09 10:15	04/30/09 15:10	05/17/09 09:15	17
20090160	S09V000175	SOLID	SW846-9045D	04/30/09 14:25	04/30/09 15:10	05/17/09 09:15	17
20090325	S09V000382	SOLID	SW846-9045D	05/04/09 10:20	05/04/09 14:00	05/21/09 21:19	17
20090325	S09V000392	SOLID	SW846-9045D	05/06/09 10:40	05/06/09 13:10	05/21/09 21:19	15
20090325	S09V000401	SOLID	SW846-9045D	05/13/09 09:30	05/13/09 11:01	05/21/09 21:19	8
20090325	S09V000416	SOLID	SW846-9045D	05/18/09 09:20	05/18/09 14:55	05/21/09 21:19	3
20090325	S09V000433	SOLID	SW846-9045D	05/18/09 11:40	05/18/09 14:55	05/21/09 21:19	3
20090325	S09V000448	SOLID	SW846-9045D	05/19/09 09:45	05/19/09 13:30	05/21/09 21:19	2
20090377	S09V000626	SOLID	SW846-9045D	05/21/09 09:24	05/21/09 13:22	06/10/09 12:45	20
20090377	S09V000642	SOLID	SW846-9045D	05/21/09 10:21	05/21/09 13:22	06/10/09 12:45	20
20090377	S09V000658	SOLID	SW846-9045D	06/01/09 11:35	06/01/09 14:00	06/10/09 12:45	9
20090364	S09V000482	SOLID	SW846-9045D	06/03/09 11:20	06/03/09 15:30	06/10/09 12:45	7
20090364	S09V000500	SOLID	SW846-9045D	06/03/09 14:25	06/03/09 15:30	06/10/09 12:45	7
20090364	S09V000545	SOLID	SW846-9045D	06/04/09 09:34	06/04/09 14:45	06/10/09 12:45	6
20090364	S09V000561	SOLID	SW846-9045D	06/04/09 10:30	06/04/09 14:45	06/10/09 12:45	6
20090364	S09V000577	SOLID	SW846-9045D	06/04/09 13:28	06/04/09 14:45	06/10/09 12:45	6
20090364	S09V000593	SOLID	SW846-9045D	06/09/09 09:20	06/09/09 14:30	06/17/09 14:54	8
20090364	S09V000609	SOLID	SW846-9045D	06/09/09 10:55	06/09/09 14:30	06/17/09 14:54	8
20090452	S09V000727	SOLID	SW846-9045D	06/15/09 09:35	06/15/09 13:52	06/17/09 14:54	2
20090452	S09V000740	SOLID	SW846-9045D	06/15/09 10:17	06/15/09 13:52	06/17/09 14:54	2
20090452	S09V000753	SOLID	SW846-9045D	06/15/09 10:53	06/15/09 13:52	06/17/09 14:54	2

Hold Time Report Sulfide

Sample Group	Sample	Matrix	Method	Preparation Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20090160	S09V000171	SOLID	SW846-9215	SW846-9030B	04/14/09 13:00	04/14/09 15:15	04/20/09 03:10	N
20090160	S09V000172	SOLID	SW846-9215	SW846-9030B	04/21/09 10:41	04/21/09 13:30	04/26/09 14:30	N
20090160	S09V000173	SOLID	SW846-9215	SW846-9030B	04/22/09 10:00	04/22/09 13:13	04/26/09 14:30	N
20090160	S09V000174	SOLID	SW846-9215	SW846-9030B	04/30/09 10:15	04/30/09 15:10	05/07/09 02:39	N
20090160	S09V000175	SOLID	SW846-9215	SW846-9030B	04/30/09 14:25	04/30/09 15:10	05/07/09 02:39	N
20090325	S09V000382	SOLID	SW846-9215	SW846-9030B	05/04/09 10:20	05/04/09 14:00	05/12/09 10:30	Y
20090325	S09V000392	SOLID	SW846-9215	SW846-9030B	05/06/09 10:40	05/06/09 13:10	05/12/09 10:30	N
20090325	S09V000401	SOLID	SW846-9215	SW846-9030B	05/13/09 09:30	05/13/09 11:01	05/19/09 10:34	N
20090325	S09V000416	SOLID	SW846-9215	SW846-9030B	05/18/09 09:20	05/18/09 14:55	05/21/09 03:15	N
20090325	S09V000433	SOLID	SW846-9215	SW846-9030B	05/18/09 11:40	05/18/09 14:55	05/21/09 03:15	N
20090325	S09V000448	SOLID	SW846-9215	SW846-9030B	05/19/09 09:45	05/19/09 13:30	05/21/09 03:15	N
20090364	S09V000482	SOLID	SW846-9215	SW846-9030B	06/03/09 11:20	06/03/09 15:30	06/09/09 15:59	N
20090364	S09V000500	SOLID	SW846-9215	SW846-9030B	06/03/09 14:25	06/03/09 15:30	06/09/09 15:59	N
20090364	S09V000545	SOLID	SW846-9215	SW846-9030B	06/04/09 09:34	06/04/09 14:45	06/09/09 15:59	N
20090364	S09V000561	SOLID	SW846-9215	SW846-9030B	06/04/09 10:30	06/04/09 14:45	06/09/09 15:59	N
20090364	S09V000577	SOLID	SW846-9215	SW846-9030B	06/04/09 13:28	06/04/09 14:45	06/09/09 15:59	N
20090364	S09V000593	SOLID	SW846-9215	SW846-9030B	06/09/09 09:20	06/09/09 14:30	06/15/09 15:53	N
20090364	S09V000609	SOLID	SW846-9215	SW846-9030B	06/09/09 10:55	06/09/09 14:30	06/15/09 15:53	N
20090377	S09V000626	SOLID	SW846-9215	SW846-9030B	05/21/09 09:24	05/21/09 13:22	06/03/09 13:12	Y
20090377	S09V000642	SOLID	SW846-9215	SW846-9030B	05/21/09 10:21	05/21/09 13:22	06/03/09 13:12	Y
20090377	S09V000658	SOLID	SW846-9215	SW846-9030B	06/01/09 11:35	06/01/09 14:00	06/03/09 13:12	N
20090452	S09V000727	SOLID	SW846-9215	SW846-9030B	06/15/09 09:35	06/15/09 13:52	06/19/09 13:41	N
20090452	S09V000740	SOLID	SW846-9215	SW846-9030B	06/15/09 10:17	06/15/09 13:52	06/19/09 13:41	N
20090452	S09V000753	SOLID	SW846-9215	SW846-9030B	06/15/09 10:53	06/15/09 13:52	06/19/09 13:41	N

Hold Time Report SVOA

Sample Group	Sample	Matrix	Method	Prep Method	Sample Date	Received Date	Prep Date	Analysis Date	Missed Holding Time
20090160	S09V000179	SOLID	SW846-8270C	SW846-3540C	04/14/09 13:00	04/16/09 15:30	04/22/09 00:00	05/21/09 18:48	N
20090160	S09V000180	SOLID	SW846-8270C	SW846-3540C	04/21/09 10:41	04/21/09 13:30	04/22/09 00:00	05/21/09 16:30	N
20090160	S09V000181	SOLID	SW846-8270C	SW846-3540C	04/22/09 10:00	04/22/09 13:13	04/28/09 00:00	05/21/09 21:03	N
20090160	S09V000182	SOLID	SW846-8270C	SW846-3540C	04/30/09 10:15	04/30/09 15:10	05/05/09 00:00	05/22/09 04:09	N
20090160	S09V000183	SOLID	SW846-8270C	SW846-3540C	04/30/09 14:25	04/30/09 15:10	05/05/09 00:00	05/22/09 01:52	N
20090325	S09V000404	SOLID	SW846-8270C	SW846-3540C	05/13/09 09:30	05/13/09 11:01	05/26/09 00:00	06/02/09 14:56	N
20090325	S09V000419	SOLID	SW846-8270C	SW846-3540C	05/18/09 09:20	05/18/09 14:55	05/26/09 00:00	06/02/09 15:42	N
20090325	S09V000436	SOLID	SW846-8270C	SW846-3540C	05/18/09 11:40	05/18/09 14:55	05/26/09 00:00	06/02/09 16:26	N
20090325	S09V000451	SOLID	SW846-8270C	SW846-3540C	05/19/09 09:45	05/19/09 13:30	05/26/09 00:00	06/02/09 17:12	N
20090325	S09V000461	SOLID	SW846-8270C	SW846-3540C	05/04/09 10:20	05/04/09 14:00	05/13/09 00:00	05/22/09 06:25	N
20090325	S09V000462	SOLID	SW846-8270C	SW846-3540C	05/06/09 10:40	05/06/09 13:10	05/13/09 00:00	05/22/09 07:08	N
20090364	S09V000485	SOLID	SW846-8270C	SW846-3540C	06/03/09 11:20	06/05/09 09:13	06/09/09 00:00	06/16/09 17:02	N
20090364	S09V000503	SOLID	SW846-8270C	SW846-3540C	06/03/09 14:25	06/03/09 15:30	06/09/09 00:00	06/16/09 17:47	N
20090364	S09V000548	SOLID	SW846-8270C	SW846-3540C	06/04/09 09:34	06/04/09 14:45	06/09/09 00:00	06/16/09 18:32	N
20090364	S09V000564	SOLID	SW846-8270C	SW846-3540C	06/04/09 10:30	06/04/09 14:45	06/09/09 00:00	06/16/09 19:18	N
20090364	S09V000580	SOLID	SW846-8270C	SW846-3540C	06/04/09 13:28	06/04/09 14:45	06/09/09 00:00	06/16/09 20:04	N
20090364	S09V000596	SOLID	SW846-8270C	SW846-3540C	06/09/09 09:20	06/09/09 14:30	06/22/09 00:00	07/16/09 15:09	N
20090364	S09V000612	SOLID	SW846-8270C	SW846-3540C	06/09/09 10:55	06/09/09 14:30	06/22/09 00:00	07/16/09 15:54	N
20090377	S09V000629	SOLID	SW846-8270C	SW846-3540C	05/21/09 09:24	05/21/09 13:22	05/26/09 00:00	06/02/09 17:58	N
20090377	S09V000645	SOLID	SW846-8270C	SW846-3540C	05/21/09 10:21	05/21/09 13:22	05/26/09 00:00	06/02/09 18:40	N
20090377	S09V000661	SOLID	SW846-8270C	SW846-3540C	06/01/09 11:35	06/01/09 14:00	06/09/09 00:00	06/16/09 16:17	N
20090452	S09V000742	SOLID	SW846-8270C	SW846-3540C	06/15/09 10:17	06/15/09 13:52	**07/30/09 00:00**	09/01/09 16:27	**Y**

Hold Time Report for VOA

Sample Group	Sample	Matrix	Method	Sample Date	Received Date	Analysis Date	Missed Holding Time
20090160	S09V000123	SOLID	SW846-8260B	04/14/09 13:00	04/14/09 15:15	04/19/09 13:48	N
20090160	S09V000124	SOLID	SW846-8260B	04/21/09 10:41	04/21/09 13:30	04/28/09 16:15	N
20090160	S09V000125	SOLID	SW846-8260B	04/22/09 10:00	04/22/09 13:13	04/28/09 17:14	N
20090160	S09V000126	SOLID	SW846-8260B	04/30/09 10:15	04/30/09 15:10	05/06/09 14:31	N
20090160	S09V000127	SOLID	SW846-8260B	04/30/09 14:15	04/30/09 15:10	05/07/09 15:23	N
20090325	S09V000378	SOLID	SW846-8260B	05/04/09 10:20	05/04/09 14:00	05/07/09 15:52	N
20090325	S09V000383	SOLID	SW846-8260B	05/04/09 12:45	05/04/09 14:00	05/07/09 17:21	N
20090325	S09V000386	SOLID	SW846-8260B	05/06/09 10:40	05/06/09 13:10	05/07/09 17:50	N
20090325	S09V000395	SOLID	SW846-8260B	05/13/09 09:30	05/13/09 10:30	05/27/09 15:48	N
20090325	S09V000410	SOLID	SW846-8260B	05/18/09 09:20	05/18/09 14:55	06/03/09 19:41	Y
20090325	S09V000427	SOLID	SW846-8260B	05/18/09 11:40	05/18/09 14:55	05/21/09 18:00	N
20090325	S09V000442	SOLID	SW846-8260B	05/19/09 09:45	05/19/09 13:30	05/28/09 16:52	N
20090345	S09V000377	LIQUID	SW846-8260B	05/18/09 07:30	05/18/09 14:55	05/21/09 14:34	N
20090364	S09V000476	SOLID	SW846-8260B	06/03/09 11:20	06/03/09 15:30	06/17/09 12:12	N
20090364	S09V000494	SOLID	SW846-8260B	06/03/09 14:25	06/03/09 15:30	06/17/09 11:42	N
20090364	S09V000539	SOLID	SW846-8260B	06/04/09 09:34	06/04/09 14:45	06/18/09 14:37	N
20090364	S09V000555	SOLID	SW846-8260B	06/04/09 10:30	06/04/09 14:45	06/18/09 13:30	N
20090364	S09V000571	SOLID	SW846-8260B	06/04/09 13:28	06/04/09 14:45	06/17/09 15:39	N
20090364	S09V000587	SOLID	SW846-8260B	06/09/09 09:20	06/09/09 14:30	06/22/09 15:51	N
20090364	S09V000603	SOLID	SW846-8260B	06/09/09 10:55	06/09/09 14:30	06/22/09 16:20	N
20090366	S09V000493	LIQUID	SW846-8260B	06/03/09 13:46	06/03/09 15:30	06/18/09 09:59	Y
20090376	S09V000619	LIQUID	SW846-8260B	05/21/09 08:30	05/21/09 13:22	06/04/09 16:15	N
20090377	S09V000620	SOLID	SW846-8260B	05/21/09 09:24	05/21/09 13:22	06/03/09 17:43	N
20090377	S09V000636	SOLID	SW846-8260B	05/21/09 10:21	05/21/09 13:22	06/04/09 15:17	N
20090377	S09V000652	SOLID	SW846-8260B	06/01/09 11:35	06/01/09 14:00	06/03/09 20:10	N
20090452	S09V000722	SOLID	SW846-8260B	06/15/09 09:35	06/15/09 13:52	06/22/09 13:52	N
20090452	S09V000735	SOLID	SW846-8260B	06/15/09 10:17	06/15/09 13:52	06/19/09 12:12	N
20090452	S09V000748	SOLID	SW846-8260B	06/15/09 10:53	06/15/09 13:52	06/22/09 14:52	N

Attachment 4

TENTATIVELY IDENTIFIED COMPOUNDS FOR ORGANIC ANALYSES

15-Dec-2009 8:5026
DSRTICHardcopy 2.7.26a
DSR.Jar v. 2.7.26c

C Farm WMA C
Data Summary of All Results

Sample Group: 20090160

Core Number: C6392

Customer Sample ID: B1YT69

Sample Depth: 14-15

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000123			BLNK	1-Propene, 2-methyl-	115-11-7	4.98	ug/kg	2.2	JNT
S09V000123			BLNK	Unknown-1		16.63	ug/kg	4.4	JT
S09V000123			BLNK	Nonanal	124-19-6	17.44	ug/kg	2.5	JNT
S09V000123			BLNK	Unknown-2		18.41	ug/kg	2.6	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090160

Core Number: C6392

Customer Sample ID: B1YT71

Sample Depth: 14-15

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000179	O		Unknown-1		15.04	ug/kg	390	BJT
S09V000179	O	BLNK	Ethene, 1,2-dichloro-,	156-59-2	2.67	ug/kg	3.2E+03	JNT
S09V000179	O	BLNK	Oxirane, trimethyl-	5076-19-7	2.98	ug/kg	2.1E+03	JNT
S09V000179	O	BLNK	Unknown-1		15.05	ug/kg	5.4E+03	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090160

Core Number: C6392

Customer Sample ID: B1YT74

Sample Depth: 19.5-21.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000180		O		Unknown-1		15.04	ug/kg	420	BJT
S09V000180		O		Unknown-2		20.01	ug/kg	290	JT
S09V000180		O		Unknown-3		20.15	ug/kg	370	JT
S09V000180		O		Unknown-4		20.21	ug/kg	890	JT
S09V000180		O		Unknown-5		20.30	ug/kg	420	JT
S09V000180		O		Unknown-6		20.35	ug/kg	310	JT
S09V000180		O		Unknown-7		20.45	ug/kg	810	JT
S09V000180		O		Unknown-8		20.49	ug/kg	610	JT
S09V000180		O		Unknown-9		20.60	ug/kg	1.5E+03	JT
S09V000180		O		Unknown-10		20.68	ug/kg	1.8E+03	JT
S09V000180		O		Unknown-11		20.77	ug/kg	820	JT
S09V000180		O		Unknown-12		20.79	ug/kg	1.8E+03	JT
S09V000180		O		Unknown-13		20.88	ug/kg	1.2E+03	JT
S09V000180		O		Unknown-14		20.93	ug/kg	550	JT
S09V000180		O		Unknown-15		20.99	ug/kg	1.1E+03	JT
S09V000180		O		Unknown-16		21.06	ug/kg	1.4E+03	JT
S09V000180		O		Unknown-17		21.15	ug/kg	910	JT
S09V000180		O		Unknown-18		21.18	ug/kg	830	JT
S09V000180		O		Unknown-19		21.27	ug/kg	790	JT
S09V000180		O		Unknown-20		21.38	ug/kg	330	JT
S09V000180		O	BLNK	Ethene, 1,2-dichloro-,	156-59-2	2.67	ug/kg	3.2E+03	JNT
S09V000180		O	BLNK	Oxirane, trimethyl-	5076-19-7	2.98	ug/kg	2.1E+03	JNT
S09V000180		O	BLNK	Unknown-1		15.05	ug/kg	5.4E+03	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
J - Estimated
N - Named TIC
T - Tentatively Identified Compound
U - Less Than Detection Limit
Y - Comment
a - LCS Outside Range
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090160

Core Number: C6392

Customer Sample ID: B1YT77

Sample Depth: 25-27

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000181		O		Unknown-1		15.04	ug/kg	600	BJT
S09V000181		O	BLNK	Trichloromethane	67-66-3	2.99	ug/kg	2.5E+04	JNT
S09V000181		O	BLNK	Cyclohexane	110-82-7	3.35	ug/kg	2.0E+03	JNT
S09V000181		O	BLNK	Cyclohexene	110-83-8	3.53	ug/kg	4.0E+05	JNT
S09V000181		O	BLNK	Unknown-1		15.04	ug/kg	4.1E+03	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090160

Core Number: C6392

Customer Sample ID: B1YT78

Sample Depth: 42-44

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000126				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	1.9	JNT
S09V000126				Nonanal	124-19-6	17.44	ug/kg	2.5	BJNT
S09V000126			BLNK	Nonanal	124-19-6	17.44	ug/kg	2.9	JNT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090160

Core Number: C6392

Customer Sample ID: B1YT80

Sample Depth: 42-44

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000182	O		Ethanol, 2-(2-ethoxyet	111-90-0	7.15	ug/kg	210	JNT
S09V000182	O		Unknown-1		15.04	ug/kg	650	BJT
S09V000182	O		Unknown-2		20.01	ug/kg	250	JT
S09V000182	O		Unknown-3		20.15	ug/kg	230	JT
S09V000182	O		Unknown-4		20.21	ug/kg	460	JT
S09V000182	O		Unknown-5		20.41	ug/kg	810	JT
S09V000182	O		Unknown-6		20.45	ug/kg	630	JT
S09V000182	O		Unknown-7		20.60	ug/kg	740	JT
S09V000182	O		Unknown-8		20.67	ug/kg	940	JT
S09V000182	O		Unknown-9		20.79	ug/kg	1.4E+03	JT
S09V000182	O		Unknown-10		20.88	ug/kg	920	JT
S09V000182	O		Unknown-11		20.98	ug/kg	580	JT
S09V000182	O		Unknown-12		21.06	ug/kg	780	JT
S09V000182	O		Unknown-13		21.14	ug/kg	450	JT
S09V000182	O		Unknown-14		21.18	ug/kg	560	JT
S09V000182	O		Unknown-15		21.27	ug/kg	440	JT
S09V000182	O	BLNK	Ethene, 1,2-dichloro-,	156-59-2	2.67	ug/kg	300	JNT
S09V000182	O	BLNK	Trichloromethane	67-66-3	3.01	ug/kg	2.1E+03	JNT
S09V000182	O	BLNK	Cyclohexene	110-83-8	3.54	ug/kg	3.7E+04	JNT
S09V000182	O	BLNK	Unknown-1		15.04	ug/kg	560	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090160

Core Number: C6392

Customer Sample ID: B1YT81

Sample Depth: 56-58

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000127				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	5.9	JNT
S09V000127				Nonanal	124-19-6	17.44	ug/kg	6.5	BJNT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090160

Core Number: C6392

Customer Sample ID: B1YT83

Sample Depth: 56-58

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000183	O		Unknown-1		15.04	ug/kg	580	BJT
S09V000183	O		Unknown-2		20.41	ug/kg	250	JT
S09V000183	O		Unknown-3		20.60	ug/kg	320	JT
S09V000183	O		Unknown-4		20.67	ug/kg	520	JT
S09V000183	O		Unknown-5		20.78	ug/kg	370	JT
S09V000183	O		Unknown-6		20.88	ug/kg	270	JT
S09V000183	O		Unknown-7		20.98	ug/kg	250	JT
S09V000183	O		Unknown-8		21.05	ug/kg	500	JT
S09V000183	O		Unknown-9		21.18	ug/kg	430	JT
S09V000183	O	BLNK	Ethene, 1,2-dichloro-,	156-59-2	2.67	ug/kg	300	JNT
S09V000183	O	BLNK	Trichloromethane	67-66-3	3.01	ug/kg	2.1E+03	JNT
S09V000183	O	BLNK	Cyclohexene	110-83-8	3.54	ug/kg	3.7E+04	JNT
S09V000183	O	BLNK	Unknown-1		15.04	ug/kg	560	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: B1YT90

Sample Depth: 6-8

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000378				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	24	JNT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: B1YT92

Sample Depth: 6-8

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000461	O		Propylene Glycol	57-55-6	4.04	ug/kg	250	JNT
S09V000461	O		Benzoic acid	65-85-0	8.92	ug/kg	300	JNT
S09V000461	O		Unknown-1		15.04	ug/kg	610	BJT
S09V000461	O	BLNK	Ethene, 1,2-dichloro-,	156-60-5	2.68	ug/kg	280	JNT
S09V000461	O	BLNK	Trichloromethane	67-66-3	3.01	ug/kg	1.9E+03	JNT
S09V000461	O	BLNK	Cyclohexene	110-83-8	3.55	ug/kg	3.4E+04	JNT
S09V000461	O	BLNK	Unknown-1		15.04	ug/kg	500	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: B1YT93

Sample Depth: 10-12

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000383				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	6.6	JNT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: B1YT99

Sample Depth: 19.5-21.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000395				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	5.0	JNT
S09V000395			BLNK	System Artifact #1		16.63	ug/kg	4.3	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: B1YTB1

Sample Depth: 19.5-21.5

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000404	O		Propylene Glycol	57-55-6	4.04	ug/kg	570	JNT
S09V000404	O		Triacetin	102-76-1	10.62	ug/kg	270	JNT
S09V000404	O		Unknown-1		15.04	ug/kg	580	BJT
S09V000404	O	BLNK	Unknown-1		15.04	ug/kg	260	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: B1YTB2

Sample Depth: 31.5-33.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000410				Unknown Hydrocarbon-1		15.96	ug/kg	2.2	JT
S09V000410			BLNK	System Artifact #2		14.95	ug/kg	1.9	JT
S09V000410			BLNK	System Artifact #1		16.63	ug/kg	10	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: B1YTB4

Sample Depth: 31.5-33.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000419		O		Propylene Glycol	57-55-6	4.04	ug/kg	440	JNT
S09V000419		O		Ethanol, 2-(2-ethoxyet	111-90-0	7.16	ug/kg	220	JNT
S09V000419		O		Benzoic acid	65-85-0	8.91	ug/kg	260	JNT
S09V000419		O		Unknown-1		15.04	ug/kg	860	BJT
S09V000419		O	BLNK	Unknown-1		15.04	ug/kg	260	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
J - Estimated
N - Named TIC
T - Tentatively Identified Compound
U - Less Than Detection Limit
Y - Comment
a - LCS Outside Range
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: B1YTB5

Sample Depth: 42-44

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000427			BLNK	System Artifact #1		16.63	ug/kg	6.2	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: B1YTB7

Sample Depth: 42-44

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000436		O		Propylene Glycol	57-55-6	4.05	ug/kg	280	JNT
S09V000436		O		Unknown-1		15.04	ug/kg	480	BJT
S09V000436		O		Hexadecanoic acid (9CI)	57-10-3	15.63	ug/kg	240	JNT
S09V000436		O		Unknown-2		18.98	ug/kg	390	JT
S09V000436		O		Unknown-3		20.67	ug/kg	260	JT
S09V000436		O		Unknown-4		21.05	ug/kg	240	JT
S09V000436		O		Unknown-5		21.17	ug/kg	390	JT
S09V000436		O	BLNK	Unknown-1		15.04	ug/kg	260	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: B1YTB8

Sample Depth: 57-59

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000442				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	6.3	JNT
S09V000442				Nonanal	124-19-6	17.44	ug/kg	2.1	JNT
S09V000442			BLNK	System Artifact #1		16.63	ug/kg	3.7	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: B1YTC0

Sample Depth: 57-59

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000451		O		Propylene Glycol	57-55-6	4.05	ug/kg	270	JNT
S09V000451		O		Unknown-1		15.04	ug/kg	1.3E+03	BJT
S09V000451		O		Unknown-2		18.97	ug/kg	390	JT
S09V000451		O	BLNK	Unknown-1		15.04	ug/kg	260	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
J - Estimated
N - Named TIC
T - Tentatively Identified Compound
U - Less Than Detection Limit
Y - Comment
a - LCS Outside Range
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090325

Core Number: C6404

Customer Sample ID: BY1T98

Sample Depth: 14-16

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000462	O		Propylene Glycol	57-55-6	4.04	ug/kg	280	JNT
S09V000462	O		Ethanol, 2-(2-ethoxyet	111-90-0	7.16	ug/kg	210	JNT
S09V000462	O		Benzoic acid	65-85-0	8.91	ug/kg	230	JNT
S09V000462	O		Unknown-1		9.71	ug/kg	230	JT
S09V000462	O		Triacetin	102-76-1	10.62	ug/kg	250	JNT
S09V000462	O		Unknown-2		15.04	ug/kg	540	BJT
S09V000462	O		Hexanedioic acid, bis(	103-23-1	18.30	ug/kg	200	JNT
S09V000462	O	BLNK	Ethene, 1,2-dichloro-,	156-60-5	2.68	ug/kg	280	JNT
S09V000462	O	BLNK	Trichloromethane	67-66-3	3.01	ug/kg	1.9E+03	JNT
S09V000462	O	BLNK	Cyclohexene	110-83-8	3.55	ug/kg	3.4E+04	JNT
S09V000462	O	BLNK	Unknown-1		15.04	ug/kg	500	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
J - Estimated
N - Named TIC
T - Tentatively Identified Compound
U - Less Than Detection Limit
Y - Comment
a - LCS Outside Range
b - MS/MSD Outside Range

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTC7

Sample Depth: 5-7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000476				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	5.3	JNT
S09V000476			BLNK	Unknown-1		16.63	ug/kg	2.6	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTC9

Sample Depth: 5-7

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000485	O		Unknown-1		4.05	ug/kg	770	JT
S09V000485	O		Unknown-2		15.04	ug/kg	300	BJT
S09V000485	O		Hexadecanoic acid (9CI)	57-10-3	15.63	ug/kg	280	JNT
S09V000485	O		Unknown-3		15.70	ug/kg	240	JT
S09V000485	O		Unknown-4		18.98	ug/kg	480	JT
S09V000485	O	BLNK	Propylene Glycol	57-55-6	4.05	ug/kg	810	JNT
S09V000485	O	BLNK	Unknown-1		15.05	ug/kg	1.8E+03	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTD0

Sample Depth: 10-12

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000494				Heptane, 2,4-dimethyl-	2213-23-2	12.95	ug/kg	2.8	JNT
S09V000494				Unknown Hydrocarbon-1		15.96	ug/kg	5.8	JT
S09V000494			BLNK	Unknown-1		16.63	ug/kg	2.6	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTD2

Sample Depth: 10-12

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000503	O		1,2-Propanediol	57-55-6	4.05	ug/kg	910	BJNT
S09V000503	O		Ethanol, 2-(2-ethoxyet	111-90-0	7.15	ug/kg	230	JNT
S09V000503	O		Unknown-1		13.82	ug/kg	400	JT
S09V000503	O		Unknown-2		15.04	ug/kg	260	BJT
S09V000503	O		Hexadecanoic acid, met	112-39-0	15.41	ug/kg	460	JNT
S09V000503	O		Hexadecanoic acid (9CI)	57-10-3	15.64	ug/kg	340	JNT
S09V000503	O		9-Octadecenoic acid, m	1937-62-8	16.59	ug/kg	3.6E+03	JNT
S09V000503	O		Octadecanoic acid, met	112-61-8	16.72	ug/kg	690	JNT
S09V000503	O		Unknown-3		17.81	ug/kg	1.2E+03	JT
S09V000503	O		Unknown-4		17.84	ug/kg	540	JT
S09V000503	O		Eicosanoic acid, methy	1120-28-1	17.94	ug/kg	350	JNT
S09V000503	O		Unknown-5		19.00	ug/kg	540	JT
S09V000503	O	BLNK	Propylene Glycol	57-55-6	4.05	ug/kg	810	JNT
S09V000503	O	BLNK	Unknown-1		15.05	ug/kg	1.8E+03	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTD3

Sample Depth: 14-16

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000539			BLNK	Unknown-1		16.63	ug/kg	3.0	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTD5

Sample Depth: 14-16

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000548	O		Propylene Glycol	57-55-6	4.05	ug/kg	790	BJNT
S09V000548	O		Unknown-1		15.04	ug/kg	300	BJT
S09V000548	O		Unknown-2		19.00	ug/kg	350	JT
S09V000548	O	BLNK	Propylene Glycol	57-55-6	4.05	ug/kg	810	JNT
S09V000548	O	BLNK	Unknown-1		15.05	ug/kg	1.8E+03	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTD6

Sample Depth: 19.5-21.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000555				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	7.6	JNT
S09V000555				Nonanal	124-19-6	17.44	ug/kg	5.9	JNT
S09V000555			BLNK	Unknown-1		16.63	ug/kg	3.0	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTD8

Sample Depth: 19.5-21.5

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000564	O		Unknown-1		5.27	ug/kg	390	JT
S09V000564	O		Unknown-2		15.04	ug/kg	320	BJT
S09V000564	O		Unknown-3		19.03	ug/kg	310	JT
S09V000564	O	BLNK	Propylene Glycol	57-55-6	4.05	ug/kg	810	JNT
S09V000564	O	BLNK	Unknown-1		15.05	ug/kg	1.8E+03	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTD9

Sample Depth: 26-28

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000571				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	1.2	JNT
S09V000571			BLNK	Unknown-1		16.63	ug/kg	2.6	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTF1

Sample Depth: 26-28

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000580		O		Unknown-1		15.04	ug/kg	410	BJT
S09V000580		O		Unknown-2		15.70	ug/kg	200	JT
S09V000580		O	BLNK	Propylene Glycol	57-55-6	4.05	ug/kg	810	JNT
S09V000580		O	BLNK	Unknown-1		15.05	ug/kg	1.8E+03	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTF2

Sample Depth: 54.5-56.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000587			BLNK	System Artifact 1		16.63	ug/kg	4.7	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTF4

Sample Depth: 54.5-56.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000596		O		1,2-Benzenedicarboxyli	84-69-5	14.83	ug/kg	200	BJNT
S09V000596		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.83	ug/kg	320	JNT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTF5

Sample Depth: 59-61

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000603			BLNK	System Artifact 1		16.63	ug/kg	4.7	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090364

Core Number: C6406

Customer Sample ID: B1YTF7

Sample Depth: 59-61

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000612		O		1,2-Benzenedicarboxyli	84-69-5	14.83	ug/kg	290	BJNT
S09V000612		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.83	ug/kg	320	JNT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090366

Core Number: C6406

Customer Sample ID: B1YY24

Sample Depth: Trip Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000493				System Artifact #2		14.95	ug/L	1.2	BJT
S09V000493				System Artifact #1		16.63	ug/L	4.0	JT
S09V000493			BLNK	Unknown-1		14.95	ug/L	1.4	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090376

Core Number: C6400

Customer Sample ID: B20VR1

Sample Depth: Trip Blank

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000619				Isopropyl Alcohol	67-63-0	7.81	ug/L	1.5	JNT
S09V000619				System Artifact #2		14.95	ug/L	2.5	BJT
S09V000619				Unknown-1		16.47	ug/L	1.7	JT
S09V000619				System Artifact #1		16.63	ug/L	8.8	BJT
S09V000619			BLNK	System Artifact #2		14.95	ug/L	1.7	JT
S09V000619			BLNK	System Artifact #1		16.63	ug/L	3.7	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090377

Core Number: C6400

Customer Sample ID: B1YTF8

Sample Depth: 10-12

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000636				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	30	JNT
S09V000636			BLNK	System Artifact #1		16.63	ug/kg	6.7	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090377

Core Number: C6400

Customer Sample ID: B1YTF9

Sample Depth: 5-7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000620				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	2.8	JNT
S09V000620			BLNK	System Artifact #2		14.95	ug/kg	1.9	JT
S09V000620			BLNK	System Artifact #1		16.63	ug/kg	10	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090377

Core Number: C6400

Customer Sample ID: B1YTH1

Sample Depth: 5-7

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000629		O		Propylene Glycol	57-55-6	4.05	ug/kg	330	JNT
S09V000629		O		Unknown-1		15.04	ug/kg	990	BJT
S09V000629		O		Unknown-2		15.70	ug/kg	260	JT
S09V000629		O		Unknown-3		18.97	ug/kg	520	JT
S09V000629		O	BLNK	Unknown-1		15.04	ug/kg	260	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090377

Core Number: C6400

Customer Sample ID: B1YTH3

Sample Depth: 10-12

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000645		O		Unknown-1		15.04	ug/kg	580	BJT
S09V000645		O		Unknown-2		18.99	ug/kg	220	JT
S09V000645		O	BLNK	Unknown-1		15.04	ug/kg	260	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090377

Core Number: C6400

Customer Sample ID: B1YTH4

Sample Depth: 132-134.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000652				Unknown-1		4.37	ug/kg	4.3	JT
S09V000652				Hexanal, 2-ethyl-	123-05-7	15.81	ug/kg	2.7	JNT
S09V000652				Undecane, 4,7-dimethyl	17301-32-5	15.96	ug/kg	2.0	JNT
S09V000652				1-Hexanol, 2-ethyl-	104-76-7	16.47	ug/kg	11	JNT
S09V000652				System Artifact #1		16.63	ug/kg	2.2	BJT
S09V000652			BLNK	System Artifact #2		14.95	ug/kg	1.9	JT
S09V000652			BLNK	System Artifact #1		16.63	ug/kg	10	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090377

Core Number: C6400

Customer Sample ID: B1YTH6

Sample Depth: 132-134.5

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000661		O		Propylene Glycol	57-55-6	4.05	ug/kg	750	BJNT
S09V000661		O		Unknown-1		15.05	ug/kg	1.6E+03	BJT
S09V000661		O		Unknown-2		15.70	ug/kg	200	JT
S09V000661		O		Unknown-3		19.00	ug/kg	340	JT
S09V000661		O		Unknown-4		20.67	ug/kg	300	JT
S09V000661		O		Unknown-5		20.78	ug/kg	420	JT
S09V000661		O		Unknown-6		21.05	ug/kg	300	JT
S09V000661		O		Unknown-7		21.26	ug/kg	190	JT
S09V000661		O	BLNK	Propylene Glycol	57-55-6	4.05	ug/kg	810	JNT
S09V000661		O	BLNK	Unknown-1		15.05	ug/kg	1.8E+03	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
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b - MS/MSD Outside Range

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C Farm WMA C
Data Summary of All Results

Sample Group: 20090452

Core Number: C6402

Customer Sample ID: B20XV7

Sample Depth: 6-8

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000722			BLNK	System Artifact 1		16.63	ug/kg	4.7	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090452

Core Number: C6402

Customer Sample ID: B20XV9

Sample Depth: 10-12

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000742		O		1,2-Benzenedicarboxyli	84-69-5	14.82	ug/kg	1.3E+03	BJNT
S09V000742		O	BLNK	1,2-Benzenedicarboxyli	84-69-5	14.82	ug/kg	1.3E+03	JNT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090452

Core Number: C6402

Customer Sample ID: B20XW1

Sample Depth: 10-12

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000735			BLNK	System Artifact 1		16.63	ug/kg	5.1	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090452

Core Number: C6402

Customer Sample ID: B20XW5

Sample Depth: 14-16

Sample#	R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000748			BLNK	System Artifact 1		16.63	ug/kg	4.7	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

C Farm WMA C
Data Summary of All Results

Sample Group: 20090761

Core Number: C6392

Customer Sample ID: B1YY22

Sample Depth: Trip Blank

Sample# R	A#	QC Type	Analyte	CAS No.	Retention Time (Minutes)	Unit	Result	Qual Flags
S09V000347			Isopropyl Alcohol	67-63-0	7.81	ug/L	3.9	JNT
S09V000347			System Artifact #1		9.70	ug/L	1.8	BJT
S09V000347			System Artifact #2		14.95	ug/L	6.9	BJT
S09V000347			System Artifact #3		16.63	ug/L	7.1	BJT
S09V000347		BLNK	Isobutane	75-28-5	4.77	ug/L	2.1	JNT
S09V000347		BLNK	System Artifact #1		9.71	ug/L	2.4	JT
S09V000347		BLNK	System Artifact #2		14.95	ug/L	9.3	JT
S09V000347		BLNK	System Artifact #3		16.63	ug/L	7.7	JT

NA = Not Analyzed, ND = Not Detectec

B - Found in Blank
U - Less Than Detection Limit
J - Estimated
Y - Comment
N - Named TIC
a - LCS Outside Range
T - Tentatively Identified Compound
b - MS/MSD Outside Range

Attachment 5

CORRESPONDENCE

Ritenour, Gerald P

From: Templeton, Andrew M
Sent: Thursday, October 08, 2009 4:24 PM
To: McKinney, Steve G
Cc: Connelly, Michael; Dunbar, Kathryn J; Ritenour, Gerald P; Eberlein, Susan J; Sydnor, Harold A; Aruwah, Monica R; Bergeron, Marcel P
Subject: RE: C Farm Hg

Steve,

As we discussed I do not see any reason to re-run the analysis. I am still looking into the 2 detection limits in RPP-PLAN-38777, Required Detection Limit of 0.01 mg/kg (table 5-3) and the Target Detection limit of 0.2 mg/kg (Table 5-5), but with a detection limit of 0.02 we are still well below our lowest soil concentration action level for soil biota of 0.1 mg/kg.

Thanks

Andrew Templeton
438-0701

From: McKinney, Steve G
Sent: Tuesday, September 29, 2009 3:43 PM
To: Templeton, Andrew M
Cc: Connelly, Michael; Dunbar, Kathryn J; Ritenour, Gerald P
Subject: C Farm Hg

In looking at the global TSAP that Duc wrote (RPP-38777) the target detection limit for Hg is 0.2 ug/g. The required detection limit is set an order of magnitude below the action level for "**Soil Concentration for Protection of Terrestrial for Plants, Soil Biota, and Wildlife**" which is 0.01 ug/g. The lab has three samples, where the detection limit was determined to be 0.02. While this is below the action level, it is not an order of magnitude below. The results are all less thans. We can rerun, with a larger sample size, but the results would be outside the 30 day hold time.

Let us know how you want us to proceed.

Thanks.

From: Ritenour, Gerald P
Sent: Tuesday, September 29, 2009 12:04 PM
To: McKinney, Steve G
Subject: C Farm Hg

Steve,
The laboratory failed to meet the required detection limit for Hg for the 3 samples. The required detection limit is 0.01mg/Kg and these were twice that 0.20mg/kg. The weird thing is that the target detection limit for Hg is 0.2mg/Kg. Should we rerun the sample?

Gerald "JR" Ritenour
Project Manager
ATL International, Inc.
(509) 372-2742 office
(509) 438-8837 cell
gerald_p_ritenour@rl.gov

Bushaw, Ruth A

From: McKinney, Steve G
Sent: Thursday, November 05, 2009 4:03 PM
To: Bushaw, Ruth A
Subject: FW: C Farm WMA C Report I Iodine-129 Question

From: Templeton, Andrew M
Sent: Thursday, November 05, 2009 4:03 PM
To: McKinney, Steve G
Cc: Connelly, Michael; Eberlein, Susan J
Subject: RE: C Farm WMA C Report I Iodine-129 Question

Steve,

We are ok with the lab not re-running the samples, please as Ruth suggested have ATL provide in the narrative an explanation that we accepted them because all of the results except for the one blank are below the target detection limit.

Thanks!

Andrew

From: McKinney, Steve G
Sent: Tuesday, November 03, 2009 4:07 PM
To: Templeton, Andrew M
Subject: FW: C Farm WMA C Report I Iodine-129 Question
Importance: High

From: Bushaw, Ruth A
Sent: Tuesday, November 03, 2009 3:30 PM
To: McKinney, Steve G
Cc: Ritenour, Gerald P; Neff, Cheryl R
Subject: C Farm WMA C Report I Iodine-129 Question
Importance: High

Steve,

There are two I-129 batches, each containing 3 samples, that have positive results for I-129 in the blank. For one batch, one of the three sample results was above the detection limit, so would require a "B" flag. For the second batch, all 3 sample results were less than the detection limit, so we wouldn't "B" flag.

Note that all of the sample results, 1 blank result, and all detection limits are less than the target detection limit for I-129 in RPP-PLAN-38777, which is 2 pCi/g (2 E-06 μCi/g). The blank result for the second batch was above the target detection limit, but less than the required detection limit of 5.7E+02 pCi/g (5.7E-04 μCi/g). All three samples in the batch with this higher blank were non-detects with detection limits less than the target detection limit.

Since we are already late on this data, I would suggest that we accept these results with a narrative explanation that we accepted them because all of the results except for the one blank are below the target detection limit. What is your opinion?

Thanks,

Ruth A. Bushaw

Project Manager
ATL International, Inc.
222-S Laboratory
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cell: 509-554-4978

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Ritenour, Gerald P

Subject: FW: C-Farm SerDil Failures

Gerald "JR" Ritenour
Project Manager
ATL International, Inc.
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(509) 438-8837 cell
gerald_p_ritenour@rl.gov

From: McKinney, Steve G
Sent: Tuesday, January 05, 2010 4:40 PM
To: Ritenour, Gerald P
Subject: FW: C-Farm SerDil Failures

From: Templeton, Andrew M
Sent: Monday, January 04, 2010 3:36 PM
To: McKinney, Steve G
Subject: FW: C-Farm SerDil Failures

Steve,

We are not requesting any re-runs for the reasons given below. Please ensure that the data is appropriately flagged and explained in the narrative.

Thanks!

Andrew M. Templeton
Scientist II/System Engineer
Vadose Zone Program
WRPS.

Ph. 509-373-5589
Fax 509-372-3106
Cell 438-0701

Andrew_M_Templeton@rl.gov

From: Dunbar, Kathryn J
Sent: Monday, January 04, 2010 12:21 PM
To: Myers, David A (Dave); Templeton, Andrew M; Connelly, Michael
Cc: Eberlein, Susan J; Bergeron, Marcel P
Subject: RE: C-Farm SerDil Failures

According to SW-846 Method 6010C, ATL is not required to rerun the matrix spikes because the post digestion spikes passed. Also according to SW-846 Chapter One, matrix spikes are not required when the sample concentration is greater than 0.1% (1000 ppm), which it is in several of these cases. I agree that sample inhomogeneity is a problem with soil samples and is contributing to these matrix spike and RPD failures. I don't think rerunning is worth the effort and time for either the matrix spike or serial dilution failures. Any QC failures should be flagged appropriately, however.

Kathi Dunbar
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washington river protection solutions

Please consider the environment before printing this email

From: Myers, David A (Dave)
Sent: Monday, January 04, 2010 11:44 AM
To: Templeton, Andrew M; Connelly, Michael; Dunbar, Kathryn J
Cc: Eberlein, Susan J; Bergeron, Marcel P
Subject: RE: C-Farm SerDil Failures

I am thinking that the majority of elements, on which we are having the failures, are immaterial to the questions concerning whether or not the soils are contaminated. Strontium/Yttrium differences should be able to be resolved by radiological analyses; eliminating two more from concern. Shakespeare may have had it right "Much ado about Nothing".

From: Templeton, Andrew M
Sent: Monday, January 04, 2010 8:46 AM
To: Connelly, Michael; Dunbar, Kathryn J
Cc: Eberlein, Susan J; Myers, David A (Dave); Bergeron, Marcel P
Subject: RE: C-Farm SerDil Failures

I spoke to Steve this morning and these serial dilution failures will generate, I believe an "E" Flag as eluded to below. They have a procedure that defines these flags, GD-1028 or GD-1048, I will take a look at them. I need to give Steve some direction today on how to proceed.

Unless someone disagrees I am probably not going to require re-runs for the reasons given below. If I thought we would get some improved results from a re-run I would do it but the lab is telling me that re-runs may allow us to pass on some and fail on others.

There are also some Matrix Spike failures that are discussed below. I wonder what their QA thinks about it.

Thanks

Andrew

From: McKinney, Steve G
Sent: Wednesday, December 30, 2009 11:02 AM
To: Templeton, Andrew M; Connelly, Michael; Dunbar, Kathryn J
Cc: Ritenour, Gerald P; Prilucik, John R
Subject: FW: C-Farm SerDil Failures

Bottom line – there are always going to be QC issues when you run this many elements on a matrix such as dirt. I'm not sure we would see improvement with a series of reruns, and would likely generate additional concerns - missed required detection limits due to additional dilutions, and other RPD and spike failures due to the reasons listed – sample heterogeneity and interference. This is a late breaking issue because, as you recall the ICP was one of the last things completed.

However, we can ask the lab to rerun this, in hopes of seeing some improvement – it will potentially cost up to two weeks by the time it is re-digested, rerun and incorporated into the report.

Let me know what you think.

Thanks.

From: Ritenour, Gerald P
Sent: Wednesday, December 30, 2009 9:28 AM
To: McKinney, Steve G
Cc: Ritenour, Gerald P
Subject: FW: C-Farm SerDil Failures

Steve,
Let's discuss before you send this on.

Thanks, JR

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Project Manager
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gerald_p_ritenour@rl.gov

From: Ritenour, Gerald P
Sent: Tuesday, December 29, 2009 8:25 AM
To: McKinney, Steve G
Subject: C-Farm SerDil Failures

Steve,
We have had some QC failures for the ICP analysis. For serial dilutions (see below). SW846 requires that we dilute by 5X and rerun. However the elements that are failing are common soil, and rock forming elements that have been partially leached by the weak acid digestion (SW846-3050) used for this analysis. We believe that the high levels of Fe and Al are causing a signal interference with the other elements. The SW846 requires that the percent difference be ≤ 10%. Failures will be flagged with an "e". We can rerun for only the elements that failed, but this would take a week or two before final result are approved. I do not believe any useful information would be gained, since these results would only represent the weak acid soluble faction of common rock and soil forming elements.

ICP Serial Dilution Failures

Batch	Elements	%D
16229	Mn	-19.3
16822	P	-10.04
	Mg	-11.6
	Ca	-13.0
	Fe	-11.1
	Mn	-11.5
	Si	-12.4
16778	Mg	-13.7
	P	-13.2
	Si	-13.4
	Ti	-11.4
16820	Ca	-10.5
16815	Si	-13.6
	Ti	-11.4
	Mn	-14.8

Note: Negative %D indicates the sample result was < the serial dilution result

Matrix spike have also failed in some batches (see table below). The laboratory believes this is due to the same interferences that are causing the serial dilution failures and to non-homogeneity . Na and K failed the most frequently and they always failed high. This certainly due to matrix interference. Ca and Mg spike failures below appear to be to due sample non-homogeneity. None of the post digestion spikes failed. This supports the belief that interference for Fe and Al are contributing to the matrix spike failure. The laboratory does not believe that reanalysis will necessarily improve the spike recoveries, unless an smaller aliquot is used to reduce the interferences. This of course would increase the detection limits and in some case result in non-detected results.

As stated above laboratory believes the samples are at times very non-homogeneous. This was evident from the IC analysis. Reanalysis is not expect to necessary improve the RPD results. Note that Silicon at times fails both RPD and MS recovery. This is because this particular method is not suited for analyzing silicon in highly siliceous materials (soil).

Finally, silicon and tantalum have at least one failed LCS. Historically the laboratory has not reanalysis for QC failure of secondary analytes. Is this acceptable for Vadose samples?

Core	Customer Sample ID	Sample Depth	SAMPLE_R	ANALYTE	RESULT UNIT	STD	RESULT	DUP	RPD	SPK_REC	Det Limit	QUALIFIER	Batch
C6400	B1YTH1	5-7	S09V000631	Potassium	ug/g	91.7	1.02E+03	1.10E+03	7.32	144	94.7	b	16002
C6400	B1YTH1	5-7	S09V000631	Sodium	ug/g	93.6	636	651	2.21	155	18.9	b	16002
C6402	B20XW3	14-16	S09V001319	Potassium	ug/g	114	1.38E+03	1.76E+03	23.8	200	91.8	b	16778
C6402	B20XW3	14-16	S09V001319	Sodium	ug/g	104	451	481	6.46	166	18.4	b	16778
C6402	B20XW3	14-16	S09V001319	Praseodymium	ug/g	95.0	2.52	1.79	34.1	93.1	1.84	Jc	16778
C6402	B20XW3	14-16	S09V001319	Rubidium	ug/g	85.4	265	204	25.6	55.9	184	Jb	16778
C6402	B20XW3	14-16	S09V001319	Silicon	ug/g	51.5	9.25E+02	1.10E+03	17.3	137	5.51	ab	16778
C6406	B1YTC9	5-7	S09V001310	Aluminum	ug/g	90.7	7.18E+03	5.03E+03	35.2	650	5.72	c	16822
C6406	B1YTC9	5-7	S09V001310	Calcium	ug/g	85.6	7.69E+03	5.10E+03	40.4	497	9.54	bc	16822
C6406	B1YTC9	5-7	S09V001310	Copper	ug/g	92.8	12.4	7.93	44.0	94.6	0.954	c	16822
C6406	B1YTC9	5-7	S09V001310	Iron	ug/g	92.2	2.24E+04	1.51E+04	39.1	384	0.954	ce	16822
C6406	B1YTC9	5-7	S09V001310	Potassium	ug/g	86.0	1.30E+03	1.04E+03	22.0	168	95.4	b	16822
C6406	B1YTC9	5-7	S09V001310	Magnesium	ug/g	89.1	4.89E+03	3.28E+03	39.4	236	9.54	c	16822
C6406	B1YTC9	5-7	S09V001310	Manganese	ug/g	90.5	349	233	39.8	96.2	0.572	ce	16822
C6406	B1YTC9	5-7	S09V001310	Sodium	ug/g	90.0	298	191	43.5	163	19.1	bc	16822
C6406	B1YTC9	5-7	S09V001310	Neodymium	ug/g	97.8	25.6	17.0	40.2	94.7	1.91	c	16822
C6406	B1YTC9	5-7	S09V001310	Phosphorus	ug/g	89.3	908	530	52.6	74.5	9.54	bc	16822
C6406	B1YTC9	5-7	S09V001310	Strontium	ug/g	95.7	39.1	26.4	38.8	96.7	0.572	c	16822
C6406	B1YTC9	5-7	S09V001310	Titanium	ug/g	91.0	1.82E+03	1.14E+03	45.7	107	0.954	c	16822
C6406	B1YTC9	5-7	S09V001310	Yttrium	ug/g	93.1	9.44	5.78	48.0	89.0	0.382	c	16822
C6406	B1YTC9	5-7	S09V001310	Zinc	ug/g	89.1	40.9	28.8	34.7	90.2	0.954	c	16822
C7466	B20XX5	43.5-45.5	S09V001017	Manganese	ug/g	90.6	294	221	28.4	89.7	0.516	ce	16815

C7466	B20XX5	43.5-45.5	S09V001017	Strontium	ug/g	95.1	32.5	25.3	24.8	94.3	0.516	c	16815
C7466	B215K8	Surface	S09V001320	Barium	ug/g	84.2	62.2	165	90.6	107	0.595	c	16820
C7466	B215K8	Surface	S09V001320	Potassium	ug/g	86.9	9.54E+02	1.99E+03	70.3	216	99.2	Jb	16820
C7466	B215K8	Surface	S09V001320	Lanthanum	ug/g	83.8	10.3	15.4	40.3	99.0	0.595	c	16820
C7466	B215K8	Surface	S09V001320	Magnesium	ug/g	99.2	4.05E+03	6.90E+03	52.0	311	9.92	bc	16820
C7466	B215K8	Surface	S09V001320	Sodium	ug/g	96.4	179	294	48.5	197	19.8	Jb	16820
C7466	B215K8	Surface	S09V001320	Neodymium	ug/g	0.864	24.1	34.0	33.9	99.9	1.98	c	16820
C7466	B215K8	Surface	S09V001320	Niobium	ug/g	104	<5.95	<5.96	n/a	25.7	5.95	Ub	16820
C7466	B215K8	Surface	S09V001320	Silicon	ug/g	72.2	465	561	18.8	160	5.95	ab	16820
C7466	B215K8	Surface	S09V001320	Tantalum	ug/g	n/a	11.1	17.4	44.0	9.65	9.92	Jab	16820
C7466	B215K8	Surface	S09V001320	Titanium	ug/g	85.5	1.71E+03	2.38E+03	32.9	167	0.992	bc	16820
C7466	B215K8	Surface	S09V001320	Tungsten	ug/g	84.8	42.1	<39.8	n/a	64.1	39.7	Jb	16820
C7466	B215K8	Surface	S09V001320	Yttrium	ug/g	86.6	9.03	12.6	33.3	92.1	0.397	c	16820
C7466	B215K8	Surface	S09V001320	Zirconium	ug/g	82.5	17.9	24.9	32.8	95.3	0.992	c	16820

a - LCS Outside Range
b - MS Outside Range
c - RPD Outside Range

Please let us know if reanalysis is necessary.
Thanks, JR

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Ritenour, Gerald P

From: Templeton, Andrew M
Sent: Monday, November 02, 2009 4:29 PM
To: McKinney, Steve G
Cc: Ritenour, Gerald P; Eberlein, Susan J; Connelly, Michael; Dunbar, Kathryn J; Myers, David A (Dave)
Subject: RE: ICP DLs

Steve,

Please move any specific analytes to the ICP/MS that will allow us to meet the required detection limits. We may need to change Table 4-1 to reflect ICP/MS as the analytical method rather than the alternative method in future FSAP revisions. If we do Sb, Cd, As, Tl, Ag, and V by ICP/MS and we increase the sample size on the AES to get the Cr and Co, how will we meet the nickel and uranium, RDLs?

Thanks!

Andrew

From: McKinney, Steve G
Sent: Wednesday, October 28, 2009 8:26 AM
To: Templeton, Andrew M
Cc: Ritenour, Gerald P
Subject: FW: ICP DLs

In order to meet the FSAP RDL, we would have to move Sb, Cd, As, Tl, Ag, and V to the ICP/MS. The down side is that we would be adding "PER-TAB" – yet another ICP/MS run, on an instrument that has a significant backlog. The current FSAP does require ICP-AES as the primary method.

Do we need to move these to the ICP/MS?

Thanks.

From: Ritenour, Gerald P
Sent: Tuesday, October 27, 2009 4:52 PM
To: McKinney, Steve G
Subject: ICP DLs

Steve,
In table below, the metals shown in black are the ones that meet the FSAP specified RDL, the metals in red are the ones that miss the RDL. The column labeled MDL / 5 is are MDL divided by 5, which is based on the maximum increase in sample size possible using this method. Using the elevated sample amount may help in most cases, because then some digestions would need to be diluted due interferences – I.e., large amounts of Fe. Only Cr and Co would potentially be improved with a larger aliquot. Obviously the other metals could have been logged in for ICP/MS in order to meet the RDL. The new digest will use 1.25g in order to obtain the Cr and Co RDL. I am not planning on rerunning the completed batches in ICPAES. Let me know if that is OK

SAMPLE_R	ANALYTE	RESULT	Det Limit	RDL	MDL / 5
S09V000195	Aluminum	7.80E+03	30.3	5	
S09V000195	Antimony	<50.5	50.5	0.5	10.1
S09V000195	Arsenic	<60.6	60.6	1	12.12

S09V000195	Barium	77.1	3.03	**10.2**	
S09V000195	Beryllium	<1.01	1.01	**1**	
S09V000195	Boron	<30.3	30.3		
S09V000195	Cadmium	<5.05	5.05	0.4	1.01
S09V000195	Calcium	1.18E+04	50.5		
S09V000195	Chromium	6.84	5.05	4.2	**1.01**
S09V000195	Cobalt	15.6	10.1	2	**2.02**
S09V000195	Copper	12.5	5.05	**5**	
S09V000195	Lead	<50.5	50.5	**5**	
S09V000195	Lithium	8.30	3.03	**3.5**	
S09V000195	Manganese	369	3.03	**110**	
S09V000195	Molybdenum	<20.2	20.2		
S09V000195	Nickel	<20.2	20.2	3	4.04
S09V000195	Selenium	<101	101		
S09V000195	Silver	<5.05	5.05	0.2	1.01
S09V000195	Thallium	<101	101	0.1	20.2
S09V000195	Tin	<30.3	30.3	**50**	
S09V000195	Uranium	<101	101	0.5	20.2
S09V000195	Vanadium	59.9	5.05	0.2	1.01
S09V000195	Zinc	48.6	5.05	**8.6**	

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Ritenour, Gerald P

From: McKinney, Steve G
Sent: Thursday, November 05, 2009 4:20 PM
To: Bushaw, Ruth A
Cc: Ritenour, Gerald P
Subject: FW: C Farm CMA data issues

From: Templeton, Andrew M
Sent: Thursday, November 05, 2009 4:05 PM
To: McKinney, Steve G
Cc: Connelly, Michael; Eberlein, Susan J; Sydnor, Harold A
Subject: RE: C Farm CMA data issues

Steve,

Yes if the lab fails an RPD re-running once is acceptable and yes the lab is free to use the specified alternative method listed in the FSAP, or use an existing, approved methods to meet specified detection limits.

Thanks!

Andrew

From: McKinney, Steve G
Sent: Tuesday, November 03, 2009 1:47 PM
To: Templeton, Andrew M
Cc: Connelly, Michael
Subject: C Farm CMA data issues

Hi Andrew,

As we spoke, this e-mail is to confirm what we talked about (and allow Mike to weigh in, if he wishes):

When the laboratory fails an RPD (between sample and dup or sample and spike dup) they will rerun once. If no explanation other than sample heterogeniaty presents itself, no further reruns are required.

Additionally, when questions arise as to a method meeting detection limits, the lab is free to use the specified alternative method listed in the FSAP, or use an existing, approved methods to meet specified detection limits. Recent examples include the ICP-AES analytes we will move to ICP-MS for detection limits (Sb, As, Cd, Tl, Ag, Pb, V, U and possibly Co and Ni) and running 1 butanol by VOA instead of SVOA.

Thanks.

Ritenour, Gerald P

From: McKinney, Steve G
Sent: Thursday, June 18, 2009 11:39 AM
To: Connelly, Michael; Templeton, Andrew M; Ritenour, Gerald P; Berlin, Penelope C; Sydnor, Harold A
Subject: Sample consumption for location 2 (C6404/C6402)

Clarification to C Farm work instruction for resample locations:

Per our earlier phone conversation: Below are the recoveries for the initial sampling from location 2 (C6404) and the re-sampling from location 2 (C6402). CLS samples will be taken from the resamples (C6402). Analyses that were run in hold times on the initial sample (C6404) will not be repeated on the resample core (C6402) –i.e., the laboratory will treat them as though they were from the same location. However, each core hole must have it's own set of field QC (dup/spike) for the analyses performed on that core..

	6402 (6'-8') B20XV5	6402 (10'-12') B20XV9	6402 (14'-16') B20XW3
Sample wt	214 g	255 g	189g
CLS Shipment	160.961 g	60.894 g	60.706g

	6404 (6'-8')	6404 (10'-12')	6404 (14'-16')
Sample wt	116g	none	117 g
CLS Shipment	cancelled	cancelled	cancelled

While this could leave us short on some of the analysis conducted at 222-S, it was agreed that sample shipment to CLS on the re-samples was the priority.

I believe this captures what we agreed to on the conference calls. Let me know if not.

Thanks.

Ritenour, Gerald P

From: Ritenour, Gerald P
Sent: Wednesday, June 10, 2009 5:19 PM
To: McKinney, Steve G
Cc: Schroeder, Robert W; Bushaw, Ruth A; Bull, Kevin M; Klinger, George; Kuhl-Klinger, Kristine J; Wyse, Eric J
Subject: C Farm Missed Holding Time for Hg

Steve,
The Hg analysis for the bottom two intervals, I-006 and I-007, of core hole C6392 missed the holding time. These were sampled on 4/28/09, and analyzed on 6/10/09. The analysis exceeded the holding time by 13 days. Additionally the holding time for Hg for I-003 of core hole C6404 also missed the holding time for Hg. It was sampled on 5/6/09 and analyzed today, exceeding the holding time by 7 days. These appear to be over sights when batching samples. We are current up to and including samples received on 6/4/09.
JR

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Ritenour, Gerald P

From: Ritenour, Gerald P
Sent: Thursday, January 21, 2010 7:31 AM
To: McKinney, Steve G
Cc: Bushaw, Thomas H; Wyse, Eric J; Kuhl-Klinger, Kristine J
Subject: C-Farm WMA C Missed holding times for ICPMS analysis

Steve,
I have tallied up the ICPMS missed holding times for all the 2009 core sample (7 core holes). For the reported analyses over 40 holding times were missed. This was due to reanalysis, which was delayed by instrument repair, failure of the chemist review to recognize the need for reanalysis, and delayed third level review by the project manager. Additionally, Washington River Protection System's management set the analytical priority of C Farm analysis behind other projects. Since the analytical results did not significantly change from the initial to the final analysis, the laboratory does not believe these exceedances affected the final results. The only ICPAES analytes with result above the MDL were chromium, cobalt, nickel, and vanadium and these were comparable to the ICPSMS results that were reported outside the holding time.

Thanks, JR

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Ritenour, Gerald P

From: Ritenour, Gerald P
Sent: Wednesday, May 13, 2009 1:30 PM
To: McKinney, Steve G
Cc: Schroeder, Robert W; Kuhl-Klinger, Kristine J; Bushaw, Thomas H
Subject: C-Farm Missed holding

Steve,
We missed the holding time by one day for Ammonium analysis on sample B1YT92 (C6404 6-8' interval). Additionally the on this sample spike failed. Sample B1YT98 (C6404 14-16' interval) was in this batch and will need to be reanalyzed, which means its holding time will also be exceeded. The initial indication is that the failed spike was due to analyical error and not matrix effect. Reanalysis should confirm this.
JR

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Ritenour, Gerald P

From: Ritenour, Gerald P
Sent: Monday, May 11, 2009 4:42 PM
To: McKinney, Steve G
Cc: Schroeder, Robert W; Kuhl-Klinger, Kristine J; Bushaw, Thomas H; Bull, Kevin M
Subject: Missed Holding Time for C-Farm Core C6404

Steve,
Sulfide analysis missed the holding time for Client sample BIYT92 (C6404 6-8'). This was partially caused by late release of this sample. However, it was possible to analyze it today and still meet the holding time. The sample will be analyzed tomorrow.
Thanks, JR

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Ritenour, Gerald P

From: Ritenour, Gerald P
Sent: Wednesday, August 12, 2009 1:59 PM
To: McKinney, Steve G
Subject: FW: C-Farm Missed Hold Time

Gerald "JR" Ritenour
Project Manager
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From: Duchsherer, Mark J
Sent: Wednesday, August 12, 2009 10:19 AM
To: Ritenour, Gerald P
Subject: C-Farm Missed Hold Time

JR – FYI C-Farm Vadose VOA

S09V000410 Anomalies

Sample S09V000410 was sampled on 05/18/09. The 14-day hold time for this sample expired on 06/01/09. The samle was initially analyzed on 5/28/09. This sample exhibited complete loss of analytes. Resource limitations from 5/29/09 through 5/31/09 prevented required instrument re-calibration and subsequent sample rerun from being performed prior to expiration of the hold time. The instrument was recalibrated on 06/01/09 and 06/02/09 and the sample was re-analyzed on 6/3/09 (2 days beyond hold time).

S09V000442 Anomalies

Sample S09V000410 was sampled on 05/19/09. The 14-day hold time for this sample expired on 06/02/09. The sample was analyzed on 5/28/09. This sample exhibited a low internal standard recovery for 1,4-dichlorobenzene (-51% difference from the mid-level ICAL). The regulatory limit for a verification standard (CCV) is -50% difference.

SW-846 specifies minimum recovery requirements for internal-standards in the CCV, but does not specify limits for samples. It does, however recommend that the internal standard recovery for samples be monitored and evaluated. Acceptable surrogate recoveries in this sample indicate that the low internal standard did not adversely affect quantitation of detected analytes. The sample was not re-analyzed since results were considered acceptable and because facility resource limitations from 5/29/09 through 5/31/09 prevented required instrument re-calibration and subsequent sample rerun from being performed prior to expiration of the hold time. The instrument was recalibrated on 06/01/09 and 06/02/09 and the sample was re-analyzed on 6/3/09 (2 days beyond hold time).

If you have any further questions please call me

Ritenour, Gerald P

From: McKinney, Steve G
Sent: Monday, July 27, 2009 12:34 PM
To: Ritenour, Gerald P
Cc: Prilucik, John R
Subject: FW: Equipment rinsates

From: Dunbar, Kathryn J
Sent: Monday, July 27, 2009 11:34 AM
To: McKinney, Steve G
Subject: Re: Equipment rinsates

Document and dispose

From: McKinney, Steve G
To: Sydnor, Harold A; Templeton, Andrew M
Cc: Dunbar, Kathryn J
Sent: Mon Jul 27 11:23:46 2009
Subject: Equipment rinsates
We have received two sets of equipment rinsate samples thus far. Per our current work instruction, we were not to perform any analyses unless we found something unusual during sample analysis. Since no unusual results have been obtained thus far, no analyses have been conducted on these equipment rinsates.

With the numbers of bottles taken each time, they are consuming significant amount of refrigerator space. Additionally, there is an ALARA concern within the laboratory that the fridges are beginning to be overcrowded and we need to do everything reasonable to cut down on sample storage in the fridges.

Per our conversation, and with your permission, we will:

a) Dispose of the first equipment rinsate (sampled 3-11-09).
b) Dispose of un-needed sample containers on the second equipment rinsate, thereby saving much needed refrigerator space. We will retain sufficient sample to perform any required analyses.

As I understand it, we are changing our work instruction on how we handle equipment rinsates, and will soon receive one for a complete analysis. Once that happens, we will dispose of the second rinsate as well. Please let us know if this works for everyone.

Thanks.

Ritenour, Gerald P

From: McKinney, Steve G
Sent: Thursday, June 11, 2009 12:07 PM
To: Ritenour, Gerald P
Cc: Dunbar, Kathryn J
Subject: FW: QA interpretation

We need a set of QC on a "per hole" basis – QC for C6400, and QC for C6392.

Thanks.

From: Dunbar, Kathryn J
Sent: Thursday, June 11, 2009 11:51 AM
To: McKinney, Steve G
Subject: RE: QA interpretation

Kathi Dunbar
Quality Assurance
(509) 376-2002 Office (S7-66)
(509) 438-7887 Cell
Office (2704HV-200E)
Kathryn_J_Dunbar@rl.gov
washington river protection solutions

Please consider the environment before printing this email

the requirement is for 1 spike/dup or spike/spike dup per 20 samples- does it meet that?

From: McKinney, Steve G
Sent: Thursday, June 11, 2009 11:05 AM
To: Dunbar, Kathryn J
Cc: Connelly, Michael
Subject: QA interpretation

Hi Kathy.

ATL has asked for a clarification on QC frequency. Initially, for C Farm, we planned on doing a set of QC on a per location basis. This more than met the requirement for 1 spike/dup or spike/spike dup per 20 samples. However, as an example, with the re-sampling we have to do based on poor recovery during initial sampling, C6400 is the resample for C6392. Can we consider C6400 and C6392 the same location, as least for QC...?

Let me know.

Thanks.

Attachment 6

RECEIPT PAPERWORK

CH2M Hill Group	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-003-002	PAGE 1 OF 3

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Rosane, Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6392, EB	WMA C Sampling for CMS - QC Sampling		V09-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-526-3 pg 52	—	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

2225 20090160

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C	Cool~4C	HNO3 to pH <2	HNO3 to pH <2	Cool~4C	Cool~4C	Cool~4C	ZnAc+NaOH to pH > 9/Cool~6C	NaOH to pH >= 12/Cool~4C	None
TYPE OF CONTAINER	aGs*	aG	G/P	G	aG	aG	G/P	G/P	G/P	P
NO. OF CONTAINER(S)	3	4	1	1	3	2	1	1	1	1
VOLUME	40mL	1000mL	500mL	500mL	1000mL	1000mL	250mL	500mL	60mL	125mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS ✓	SEE ITEM (2) IN SPECIAL INSTRUCTIONS ✓	SEE ITEM (3) IN SPECIAL INSTRUCTIONS ✓	Mercury - 7470 - (CV) (TF) (Mercury) ✓	SEE ITEM (4) IN SPECIAL INSTRUCTIONS ✓	SEE ITEM (5) IN SPECIAL INSTRUCTIONS ✓	SEE ITEM (6) IN SPECIAL INSTRUCTIONS ✓	Sulfide - 9215 (Sulfide) ✓	Total Cyanide - 9014 (TF) (Cyanide) ✓	pH (Water) - 9040 (TF) (pH Measurement) ✓

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YY16	WATER	3-11-09	1420	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	LOT #			820302	030447	029918	029918	030447	031474	035453	029918	024870	027006

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
L. J. Rosane Larry Rosane	3-11-09/1535	Tim Collard	3-11-09/1535

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

CH2M Hill Group	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-002	PAGE 3 OF 3
COLLECTOR: Rosanne Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6392, EB	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNFN-576-3 : pg 52	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S20090160

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	None	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2
TYPE OF CONTAINER	G/P	G/P	G/P	G/P	G/P
NO. OF CONTAINER(S)	4	1	1	1	2
VOLUME	1000mL	1000mL	1000mL	1000mL	1000mL
SAMPLE ANALYSIS	I129_SEP_GEA (TF) {Iodine-129} ✓	SEE ITEM (7) IN SPECIAL INSTRUCTIONS ✓	Nickel-63 (TF) {Nickel-63} ✓	Selenium-79 (TF) {Selenium-79} ✓	Strontium-89,90 -- Sr-90 {Strontium-90} ✓

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B1YY16	WATER	3-11-09	1420	✓	✓	✓	✓	✓
	LOT #			032283	→	→	→	→

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
L. J. Rossane Larry Rossane	3-11-09/1535	Tu Collect Tu Collect	3-11-09/1535
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

(7)Isotopic Plutonium {Plutonium-238, Plutonium-239/240}

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

A-6003-618(01/06)

CH2M Hill Group	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-002	PAGE 2 OF 3
COLLECTOR Rosane. Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7P	DATA TURNAROUND
SAMPLING LOCATION C6392, EB	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 52	ACTUAL SAMPLE DEPTH —	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine}
(3)ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc}
(4)PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260}
(6)IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-008	PAGE 1 OF 1
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6392, I-003TB	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 56	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S20090761

SPECIAL HANDLING AND/OR STORAGE: 7°C/45°F

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
Lot #	820302

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YY22/S09V006347	WATER	4-14-09	1215	✓

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-14-09 / 1515	Tu Colloch	4-14-09 / 1515

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

2B, Ref 3 Rto

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-013	PAGE 1 OF 2
COLLECTOR: Rosanne, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6392, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 56	ACTUAL SAMPLE DEPTH: 14-15'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S20090160

SPECIAL HANDLING AND/OR STORAGE
7°C / 45°F

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YT69 / S09V000123	SOIL	4-14-09	1300	✓	✓
~~+S09V000128~~	Called				
S09V000131					

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne, Larry Rosanne	4-14-09/1515	T.W. Collock TW Collock	4-14-09 1515

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

GRE 222S20090160
ZB, REF 1 RS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-015	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-W-576-3 pg56	ACTUAL SAMPLE DEPTH 14'-15'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-014	PAGE 1 OF 1
COLLECTOR: Rosane, Rest	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6392, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 56	ACTUAL SAMPLE DEPTH: 14'-15'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S20090160

SPECIAL HANDLING AND/OR STORAGE: 7°C/45°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT70/509V20139	SOIL	4-14-09	1300	✓
GRPH 20090160				
Rm 2B, Ref 3				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-14-09/1515	Tr Gilbert Tr Gilbert	4-14-09/1515
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.
** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-015	PAGE 1 OF 2
COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6392, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 56	ACTUAL SAMPLE DEPTH: 14'-15'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

7°C/45%

SPECIAL HANDLING AND/OR STORAGE: 222S20090160

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~1~~ 2 4-14-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT71/20090160	SOIL	4-14-09	1300	✓
S09V000148 → ZB				
S09V000149				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-14-09/1515	Tim Gollock [signature]	4-14-09 1515

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

only two liner were filled due to material

☐ ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-013	PAGE 2 OF 2
COLLECTOR Rosanne, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg56	ACTUAL SAMPLE DEPTH 14'-15'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-016	PAGE 1 OF 2
COLLECTOR: Roanne, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6392, I-004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 57	ACTUAL SAMPLE DEPTH: 19.5'-21.5'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S20090160

SPECIAL HANDLING AND/OR STORAGE: 28°F/46°F -2°C/8°C

PRESERVATION			Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER			aGs*	aGs*	
NO. OF CONTAINER(S)			5	3	
VOLUME			40mL	40mL	
SAMPLE ANALYSIS			SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YT72	SOIL	4-21-09	1041	✓	✓
S09V000124 (Low)					
S09V000132 (High)					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Roanne, Larry Roanne	4-21-09/1330	R.K. Steele	4-21-09 1330
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

☐ ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-016	PAGE 2 OF 2
COLLECTOR Rosane, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-W-576-3 pg 57	ACTUAL SAMPLE DEPTH 19.5', 21.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-017	PAGE 1 OF 1

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6392, I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 57	19.5' 21.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090160

SPECIAL HANDLING AND/OR STORAGE
8°C / 46°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT73	SOIL	4-21-09	10:41	✓
S09V000140				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-21-09 1330	RHSteele RHSteele	4-21-09 1330

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-018	PAGE 1 OF 2
COLLECTOR Rosanne, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6392, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 57	ACTUAL SAMPLE DEPTH 19.5'-21.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090160

SPECIAL HANDLING AND/OR STORAGE
8°C/46°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT74	SOIL	4-21-09	1041	✓
S09V000152 (a)				
153 (b)				
154 (c)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne, Larry Rosanne	4-21-09/1330	R Steele RTSteele	4.21.09 1330
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-018	PAGE 2 OF 2
COLLECTOR Rosane, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 57	ACTUAL SAMPLE DEPTH 19.5'-21.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-019	PAGE 1 OF 2
COLLECTOR: Rosanne Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6392, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HUF-W-576-3 pg 59	ACTUAL SAMPLE DEPTH: 25'-27'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S2009016O

SPECIAL HANDLING AND/OR STORAGE: 54°F / 34°F, 12°C / 1°C

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1YT75 9V DPR 4-22-09	SOIL	4-22-09	1000	✓	✓	
SOV9000125 (Lo)						
SOV9000133 (Hi) 9V						
Lot #				814110	B907591VB	

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	4-22-09 1313	TM Collock [signature]	4-22-09 1313

SPECIAL INSTRUCTIONS

SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-019	PAGE 2 OF 2
COLLECTOR Rosawe, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 59	ACTUAL SAMPLE DEPTH 25'-27'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-020	PAGE 1 OF 1
COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6392, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 59	ACTUAL SAMPLE DEPTH: 25'-27'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S20090160

SPECIAL HANDLING AND/OR STORAGE: 12°C/54°F

PRESERVATION	Cool~6C												
TYPE OF CONTAINER	aGs*												
NO. OF CONTAINER(S)	1												
VOLUME	40mL												
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS												

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YT76	SOIL	4-22-09	1000	✓									
S09V000141													
Lot #				B907591VB									

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-22-09/1313	TW Gilbert	4-22-09 1313

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-021	PAGE 1 OF 2
COLLECTOR: Rosanne Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6392, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.:	FIELD LOGBOOK NO.: HNF-N-576-3 pg 59	ACTUAL SAMPLE DEPTH: 25'-27'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.:		BILL OF LADING/AIR BILL NO.:		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S2009016 0

SPECIAL HANDLING AND/OR STORAGE: 12° C / 54°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT77	SOIL	4-22-09	1000	✓
S09V000156				
S09V000158				
S09V000157				
LOT #				~~[illegible]~~

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane, Larry Rosane	4-22-09 1313	TM Collect	4-22-09 1313
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-021	PAGE 2 OF 2
COLLECTOR Rosane, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 59	ACTUAL SAMPLE DEPTH 25'-27'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-022	PAGE 1 OF 2
COLLECTOR: Rosanne, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6392, I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-2576-3 pg 61	ACTUAL SAMPLE DEPTH: ~~HNF 10 57~~ 42-44' JK 4-30-09	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

2225200900160

SPECIAL HANDLING AND/OR STORAGE: -1°C/22°C 30°C/72°F

mpk 9/23/09 ~~2009 0160~~

PRESERVATION			Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER			aGs*	aGs*	
NO. OF CONTAINER(S)			5	3	
VOLUME			40mL	40mL	
SAMPLE ANALYSIS			SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YT78	SOIL	4-30-09	1015	✓	✓
509V000126	(Li)				
509W000134	(Li)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane, Larry Rosane 4-30-09	1510	Todd McCollock/[illegible]	4/30/09 1510
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-022	PAGE 2 OF 2
COLLECTOR Rosane, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-526-3 pg61	ACTUAL SAMPLE DEPTH 42'-44'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-023	PAGE 1 OF 1
COLLECTOR Rosane, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-526-3 pg 61	ACTUAL SAMPLE DEPTH 42'-44'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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
222S 20090160 22°C

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT79	SOIL	4-30-09	1015	✓
S09V000142				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-30-09 / 1510	Tw Gilbert Tw Gilbert	4/30/09 1510

SPECIAL INSTRUCTIONS
** All VOA samples will be collected using EPA Method 5035A.
** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-024	PAGE 1 OF 2
COLLECTOR: Roanne, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6392, I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 61	ACTUAL SAMPLE DEPTH: 42'-44'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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
222S20090160 22°C/72°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT80	SOIL	4-30-09	1015 ~~1010~~ 4-30-09	✓
S09V000160				
S09V000161				
S09V000162				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Roanne, Larry Roanne	4-30-09/ 1510	Tim Clock Tim Clock	4/30/09 1510
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-024	PAGE 2 OF 2
COLLECTOR Rosme, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 61	ACTUAL SAMPLE DEPTH 42'-44'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-025	PAGE 1 OF 2
COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6392, I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 61	ACTUAL SAMPLE DEPTH: 56'-58'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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: 222S20090160 -1°C/22°C 30°C/72°F

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C		
TYPE OF CONTAINER	aGs*	aGs*		
NO. OF CONTAINER(S)	5	3		
VOLUME	40mL	40mL		
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1YT81	SOIL	4-30-09	1415	✓	✓	
S09V000127	(L.)					
S09V000135	(H.)					
Lot #				B1H0110	B9075011V13	

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-30-09/ 1510	Tel Bel Tel Bel	4/30/09 1510
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-025	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 61	ACTUAL SAMPLE DEPTH 56'-58'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-026	PAGE 1 OF 1
COLLECTOR: Rosanne Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6392, I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 61	ACTUAL SAMPLE DEPTH: 56'-58'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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
222S20090160 22°C/72°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT82	SOIL	4-30-09	1415	✓
S09V000143				
Lot #				B9P750 1VB

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	4-30-09/ 1510	Trey Hoch Trey Hoch	4/30/09 1510
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.
** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-027	PAGE 1 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6392, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-5 pg 61	ACTUAL SAMPLE DEPTH 56-58'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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
222S20090160 22°C/72°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT83 164	SOIL	4-30-09	1415	✓
S09V000175				
S09V000165				
S09V000166				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane, Larry Rosane	4-30-09/1500	Thelisch Thelisch	4/30/09 1500
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-027	PAGE 2 OF 2
COLLECTOR Rosane Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6392, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-526-3 p61	ACTUAL SAMPLE DEPTH 56'-58'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-092	PAGE 1 OF 2
COLLECTOR: Rosanne Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6400; I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg68	ACTUAL SAMPLE DEPTH: 5-7'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

3°C/8°C

22282 0090377

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YTF9	SOIL	5-21-09	09:24	✓	✓
S09V000620	(Lo)				
S09V000621	(H.)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-21-09 1322	TM Gilbert Tim Gilbert	5-21-09 1322
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

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-092	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6400; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 68	ACTUAL SAMPLE DEPTH 5-7'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-013	PAGE 1 OF 1
COLLECTOR: Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C6400, I-001TB	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 68	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	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=Vegitation, 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)

ac

222S20090376

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C												
TYPE OF CONTAINER	aGs*												
NO. OF CONTAINER(S)	3												
VOLUME	40mL												
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS												

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B20VR1	WATER	5-21-09	0830	✓
509V000619				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Steve Rust	5-21-09 1322	TM Gilbert	5-21-09 1322
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

(1)VOA - 8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-093	PAGE 1 OF 2
COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6400; I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 68	ACTUAL SAMPLE DEPTH: 5-7'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090377

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTH0	SOIL	5-21-09	09:24	✓
S09V000622				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-21-09/ 1322	Tim Hoch Tim Hoch	5-21-09 1322

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-093	PAGE 2 OF 2
COLLECTOR Roxane, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6400; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 68	ACTUAL SAMPLE DEPTH 5'-7'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-094	PAGE 1 OF 2
COLLECTOR: Rosanne Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6400; I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 68	ACTUAL SAMPLE DEPTH: 5-9'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

~~80C~~ 377 mpn 6-18-09
222S Q0090677

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTH1	SOIL	5-21-09	09:24	✓
S09V000623				
S09V000624				
S09V000625				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	5-21-09/1322	Tut Tut Tut Tut	5-21-09 1322
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

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-094	PAGE 2 OF 2
COLLECTOR Rosane Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6400; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 68	ACTUAL SAMPLE DEPTH	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-095	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6400; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-IV-576-3 pg 68	10-12'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

3c/8c

2009 0090377

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C		
TYPE OF CONTAINER	aGs*	aGs*		
NO. OF CONTAINER(S)	5	3		
VOLUME	40mL	40mL		
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1YTF8	SOIL	5-21-09	1021	✓	✓	
S09V000636	(Lo)					
S09V000637	(Hi)					

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-21-09/1322	TH Gilbert	5-21-09 1322
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

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-095	PAGE 2 OF 2
COLLECTOR Rosane, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6400; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 p68	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-096	PAGE 1 OF 2
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6400; I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 p968	ACTUAL SAMPLE DEPTH: 10-12'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

8c

2225 20090377

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C											
TYPE OF CONTAINER	aGs*											
NO. OF CONTAINER(S)	1											
VOLUME	40mL											
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTH2	SOIL	5-21-09	1021	✓
S09V000E38				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-21-09/1322	TM Rust TM Rust	5-21-09 1322
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

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-096	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6400; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 68	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-097	PAGE 1 OF 2
COLLECTOR: Rosanne Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6400; I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 68	ACTUAL SAMPLE DEPTH: 10-12'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

8c
2222S20090377

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTH3	SOIL	5-21-09	1021
S09V000639			
S09V000640			
S09V000641			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	5-21-09/1322	Tim Todd Tim Todd	5-21-09 1322

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-097	PAGE 2 OF 2
COLLECTOR Rosanne, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6400; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg68	ACTUAL SAMPLE DEPTH 10-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-098	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
KAUER, Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6400; I-003	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 PS69	132 to 134.5	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

8C/3°C

SPECIAL HANDLING AND/OR STORAGE
222SRW90 377

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YTH4	SOIL	6-1-09	1135	✓	✓
S09V000652	Freeze 1				
S09V000653	→ Freq 3				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/[signature]	6-1-09 1400	[signature]	6-1-09 1400
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

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-098	PAGE 2 OF 2
COLLECTOR KAUSE RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6400; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. P465 HNF N-576-3	ACTUAL SAMPLE DEPTH 132 to 134.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-099	PAGE 1 OF 2
COLLECTOR: Kauer, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6400; I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS69	ACTUAL SAMPLE DEPTH: 132 to 134.5	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

SE

SPECIAL HANDLING AND/OR STORAGE: 222S 20090377

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTH5	SOIL	6-1-09	1135	✓
509V000654				
↓				
Pag 3				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
[signature]	6-1-09 1400	[signature] RJ Stegle	6-1-09 1400
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

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-099	PAGE 2 OF 2
COLLECTOR KAUER, RUST	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6400; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. P368 HNF N-576-3	ACTUAL SAMPLE DEPTH 132. to 134.5	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-100	PAGE 1 OF 2
COLLECTOR: Kawn, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6400; I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS62	ACTUAL SAMPLE DEPTH: 132.5 to 134.5	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

8C

SPECIAL HANDLING AND/OR STORAGE: 222S 20490 377

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTH6	SOIL	6-1-09	1135
509N000 655 A			
656 B			
657 C			

Pag 2

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Ed Kawn	DATE/TIME: 6-1-09 1400	RECEIVED BY/STORED IN: RJSteele	DATE/TIME: 6.1.09 1400
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

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-100	PAGE 2 OF 2
COLLECTOR Karen Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6400; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 P56	ACTUAL SAMPLE DEPTH 132' TO 134.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-104	PAGE 1 OF 2
COLLECTOR: Rosane, Rost, Kaiser	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6402; I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH: 6-8'	COA: 301483ES10	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=Vegitation
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)

11/3/09 8°C

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XV5

0885Q0090452

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B20XV7	SOIL	6-15-09	0935	✓	✓
S09V000722	(Hi)				
S09V000723	(Lo)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	6-15-09/1352	RHEdgle RHEdgle	6.15.09 1352
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

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-104	PAGE 2 OF 2
COLLECTOR Rosane, Rust, Karen	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C6402; I-001	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-526-3 pg 73	**ACTUAL SAMPLE DEPTH** 6'-8'	**COA** 301483ES10	**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

** 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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-103	PAGE 1 OF 2
COLLECTOR: Rosane, Rust, Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6402; I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH: 6-8'	COA: 301483ES10	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=Vegitation
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)

8c 452 6/12/09
222S20090547

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XV5

PRESERVATION	Cool~6C												
TYPE OF CONTAINER	aGs*												
NO. OF CONTAINER(S)	1												
VOLUME	40mL												
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS												

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XV6	SOIL	6-15-09	0935
S09V000724			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	6-15-09 / 1352	[illegible]	6.15.09 1352

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-103	PAGE 2 OF 2
COLLECTOR Rosane Rust, Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6402; I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH 6-8'	COA 301483ES10	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

** 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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-102	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne, Rust, Kauer	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6402; I-001	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 73	6-8'	301483ES10	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=Vegitation
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)
8°c
22052CC90452

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XV5

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~1~~ 2 ea liner A
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XV5	SOIL	6-15-09	0935
S09V000725	Liner "B" A		
726	Liner "A" B		
	DPR 7/30/09		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	6-15-09/1352	RHSteele RHSteele	6.15.09 1352
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
1 3/4 Liners full

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-102	PAGE 2 OF 2
COLLECTOR Roxane, Rust, Kauer	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C6402; I-001	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-576-3 pg 73	**ACTUAL SAMPLE DEPTH** 6'-8'	**COA** 301483ES10	**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

** 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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-108	PAGE 1 OF 2
COLLECTOR: Rosanne Rust Rauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6402; I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH: 10'-12'	COA: 301483ES10	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=Vegitation, 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)

452 6/18/09
222S 0090542

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XV8
~~4 8°C~~ 9°C

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B20XW1	SOIL	6-15-09	1017	2	2
S09V00735	(L)				
736	(L)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	6-15-09 1352	[illegible] RUSTEAC	6-15-09 1352
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

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-108	PAGE 2 OF 2
COLLECTOR Rosane, Rust Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6402; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH 10-12'	COA 301483ES10	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

** 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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-107	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosanne, Rust, Kauer	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6402; I-002	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 73	10-12'	301483ES10	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=Vegitation
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)
452 6/15/09
222S20090~~347~~

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XV8
8°C

PRESERVATION	Cool~6C												
TYPE OF CONTAINER	aGs*												
NO. OF CONTAINER(S)	1												
VOLUME	40mL												
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS												

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW0	SOIL	6-15-09	1017
S09V000~~373~~ 737	MeOH Blank		
	RAO 11/3/09		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	6-15-09 1352	R Kauer R Kauer	6-15-09 1352

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-107	PAGE 2 OF 2
COLLECTOR Rosanne Rust Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6402; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3, pg 73	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	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

** 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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-106	PAGE 1 OF 2
COLLECTOR: Rosanne Rust Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6402; I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH	COA: 301483ES10	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=Vegitation
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
RADIOACTIVE TIE TO: B20XV8 452 6/12/09
~~2225~~ 2009 0542

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	2 liners
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B20XV9	SOIL	6-15-09	1017	✓
509W220738	Liner A			
739	Liner B			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	6-15-09 1352	RL Stolle RL Stolle	6.15.09 1352
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

2 full Linners

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-106	PAGE 2 OF 2
COLLECTOR Rosane, Rust Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6402; I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH	COA 301483ES10	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

** 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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-112	PAGE 1 OF 2
COLLECTOR: Rosanne, Rust Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6402; I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HWF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH: 14-16'	COA: 301483ES10	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=Vegitation
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)
6/4/09 9°C

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XW2 1152 APR 6/18/09
23205200905HC

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B20XW5	SOIL	6-15-09	1053	✓	✓								
S09V000748	(h.)												
S09V000749	(Lo)												

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
Larry Rosane Larry Rosane	6-15-09/1352	RSteele RSteele	6.15.09 1352	
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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-112	PAGE 2 OF 2
COLLECTOR Rosanne Rust Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6402; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg73	ACTUAL SAMPLE DEPTH 14'-16'	COA 301483ES10	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

** 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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-111	PAGE 1 OF 2
COLLECTOR: Roxane Rust Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6402; I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg73	ACTUAL SAMPLE DEPTH: 14'-16'	COA: 301483ES10	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=Vegitation
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)

8°C

222S Q0090452

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XW2

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B20XW4	SOIL	6-15-09	1053	✓
SC9V000750	Mc OH Clank			

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Roxane Larry Roxane	6-15-09 1352	R Steele R Steele	6.15.09 1352

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-111	PAGE 2 OF 2
COLLECTOR Rosanne Rust, Kaum	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6402; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH 14-16'	COA 301483ES10	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

** 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.
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** VOA bottles will be labeled with an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-110	PAGE 1 OF 2
COLLECTOR: Rosanne Rust, Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6402; I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 73	ACTUAL SAMPLE DEPTH: 14'-16'	COA: 301483ES10	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=Vegitation
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)

DSW 6/18/09

452

222S 20090542

SPECIAL HANDLING AND/OR STORAGE
RADIOACTIVE TIE TO: B20XW2

82

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1/2 4/2 6-15-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B20XW3	SOIL	6-15-09	1053
S09V000751	Liner A		
752	Liner B		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	6-15-09 1352	Abbul R Steele	6-15-09 1352
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

1-1/2 liner full

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-110	PAGE 2 OF 2
COLLECTOR Rosanne Rust Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6402; I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-526-31973	ACTUAL SAMPLE DEPTH 14'-16'	COA 301483ES10	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

** 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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-034	PAGE 1 OF 2
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 62	ACTUAL SAMPLE DEPTH: 6'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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: 222S 20090325

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YT90	SOIL	5-4-09	1020	✓	✓								
S09V000378	(L)												
S09V000379	(H.)												

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane, Larry Rosane	5-4-09/1400	Todd McTodd	5-4-09 1400
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-034	PAGE 2 OF 2
COLLECTOR Rosane, Rust	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C6404, I-001	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-576-3 A962	**ACTUAL SAMPLE DEPTH** 6'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-035	PAGE 1 OF 1
COLLECTOR: Rosine Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg62	ACTUAL SAMPLE DEPTH: 6'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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
222S 20090325

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT91	SOIL	5-4-09	1020	✓
5094U000380				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosine, Larry Rosine	5-4-09 1400	Todd McGilled	5-4-09 1400

SPECIAL INSTRUCTIONS

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

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-036	PAGE 1 OF 2
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6404, I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-526-3 pg 62	ACTUAL SAMPLE DEPTH: 6'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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
222S 20090325

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1 SJR 5-4-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YT92	SOIL	5-4-09	1020
S09V000~~372~~ 381	RCG 11/4/09		

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane, Larry Rosane	5-4-09 1400	Todd McCulloch	5-4-09 1400

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

Had just enought soil for the VOA's and 1 (one) liner,

ORIGINAL

2- liner were empty

SJR 5-4-09

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-036	PAGE 2 OF 2
COLLECTOR Rosane, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6404, I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 62	ACTUAL SAMPLE DEPTH 6'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-037	PAGE 1 OF 2
COLLECTOR: Rosave, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6404, I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 62	ACTUAL SAMPLE DEPTH: 10'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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: 222S 20090325

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YT93	SOIL	5-4-09	1245	✓	✓
509V000383	(L.)				
509V000384	(H.)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosave Larry Rosave	5-4-09 1400	Todd McPlock	5-4-09 1400
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-037	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6404, I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 62	ACTUAL SAMPLE DEPTH 10'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

☐ ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-038	PAGE 1 OF 1
COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6404, I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-5 pg 62	ACTUAL SAMPLE DEPTH: 10'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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
222S 20090325

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT94	SOIL	5-4-09	1245	✓
S09V000385				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Roome Larry Roome	5-4-09 1400	Todd McGilloch	5-4-09 1400

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-040	PAGE 1 OF 2
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 63	ACTUAL SAMPLE DEPTH: 14'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

32°F / 39.2°F
0°C / 4°C

SPECIAL HANDLING AND/OR STORAGE
222S20090325

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YT96	SOIL	5-6-09	1040	✓	✓
S09V000386 (Lo)					
S09V000387 (Hi)					

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-6-09/1310	Tim Collock Tim Collock	5-6-09 1310

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-040	PAGE 2 OF 2
COLLECTOR Roxane Rost	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6404, I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 p.65	ACTUAL SAMPLE DEPTH 14'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-041	PAGE 1 OF 1
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 63	ACTUAL SAMPLE DEPTH: 14'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

4°C / 39.2°F

SPECIAL HANDLING AND/OR STORAGE
222S20090325

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YT97	SOIL	5-6-09	1040	✓
509U000388				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-6-09/ 1310	TJ Collock TJ Collock	5-6-09 1310

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-042	PAGE 1 OF 2
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 63	ACTUAL SAMPLE DEPTH: 14'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

4°C / 39.2°F

SPECIAL HANDLING AND/OR STORAGE
2225 20090325

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	~~2~~ 1 5-6-09
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YT98	SOIL	5-6-09	1040
509V000389			

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane, Larry Rosane	5-6-09 1310	TM Colloch	5-6-09 1310

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

VOA's and one (1) liner were filled Due to the lack of soil

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-042	PAGE 2 OF 2
COLLECTOR Rosane, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6404, I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 63	ACTUAL SAMPLE DEPTH 14'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-003-004	PAGE 3 OF 4

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Rosane, Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-004EB	WMA C Sampling for CMS - QC Sampling		V09-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 63	N/A	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

2229200903 45

SPECIAL HANDLING AND/OR STORAGE
16°C

PRESERVATION	NaOH to pH >= 12/Cool~4C	H2SO4 to pH <2	None	HNO3 to pH <2	HNO3 to pH <2(ULTREX)	HNO3 to pH <2	None	None	HNO3 to pH <2	None
TYPE OF CONTAINER	G/P	G/P	P	G/P	Nalgene	G/P	G/P	G/P	G/P	P
NO. OF CONTAINER(S)	1	1	1	1	1	1	4	2	1	1
VOLUME	60mL	250mL	125mL	500mL	500mL	1000mL	1000mL	1000mL	1000mL	500mL
SAMPLE ANALYSIS	Total Cyanide - 9014 (TF) {Cyanide}	300.7_AMMONIUM (TF) {Nitrogen in ammonium}	pH (Water) - 9040 (TF) {pH Measurement}	SEE ITEM (9) IN SPECIAL INSTRUCTIONS	SEE ITEM (10) IN SPECIAL INSTRUCTIONS	Americium-241 (TF) {Americium-241}	I129_SEP_GEA (TF) {Iodine-129}	C-14 {Carbon-14}	CURIUM {Curium-242, Curium-243, Curium-244}	H3 - TRITIUM {Tritium}

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME											
B1YY18	WATER	5-5-09	0945	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S09V00376													

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane, Larry Rosane	5-5-09/13:20	R.D. Steele R.D. Steele	5-5-09 1320
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
(10)Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238}
(9)GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-004	PAGE 4 OF 4
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-004EB	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 63	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S 20090345

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2	HNO3 to pH <2						
TYPE OF CONTAINER	G/P	G/P	G/P	G/P						
NO. OF CONTAINER(S)	1	1	1	2						
VOLUME	1000mL	1000mL	1000mL	1000mL						
SAMPLE ANALYSIS	SEE ITEM (11) IN SPECIAL INSTRUCTIONS	Nickel-63 (TF) {Nickel-63}	Selenium-79 (TF) {Selenium-79}	Strontium-89,90 -- Sr-90 {Strontium-90}						

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YY18	WATER	5-5-09	0945	✓	✓	✓	✓						
S09V000376													

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Larry Rosane Larry Rosane 5-5-09	DATE/TIME: 1320	RECEIVED BY/STORED IN: RT Rust RT Rust 6610	DATE/TIME: 5-5-09 1320
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
(11)Isotopic Plutonium {Plutonium-238, Plutonium-239/240}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-043	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 65	19.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090325

SPECIAL HANDLING AND/OR STORAGE
-3°C/26.6°F ~~27°C~~ – ~~54°C~~ 12°C/53.6°F
OPR 10-9-09

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C								
TYPE OF CONTAINER	aGs*	aGs*								
NO. OF CONTAINER(S)	5	3								
VOLUME	40mL	40mL								
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS								

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YT99	SOIL	5-13-09	0930	✓	✓								
S09V000 395													
S09V000 396													

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-13-09/ 1030	RKSteele RKSteele	5-13-09 1030
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-043	PAGE 2 OF 2
COLLECTOR Rosane Rust	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C6404, I-004	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	75 Days / 75 Days
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-576-3 pg 65	**ACTUAL SAMPLE DEPTH** 19.5'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-003-004	PAGE 1 OF 4

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 7P	DATA TURNAROUND
Rosane, Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-004EB	WMA C Sampling for CMS - QC Sampling		V09-003		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 63	N/A	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

16°C

SPECIAL HANDLING AND/OR STORAGE

222S20090345

PRESERVATION	HCl to pH <2/Cool~4C	HCl to pH <2/Cool~4C	HCl or H2SO4 to pH <2/Cool~4C	Cool~4C	HNO3 to pH <2	HNO3 to pH <2	Cool~4C	Cool~4C	Cool~4C	ZnAc+NaOH to pH > 9/Cool~6C
TYPE OF CONTAINER	aG	aGs*	aGs*	aG	G/P	G	aG	aG	G/P	G/P
NO. OF CONTAINER(S)	1	1	3	4	1	1	3	2	1	1
VOLUME	1000mL	40mL	40mL	1000mL	500mL	500mL	1000mL	1000mL	250mL	500mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS	Mercury - 7470 - (CV) (TF) (Mercury)	SEE ITEM (6) IN SPECIAL INSTRUCTIONS	SEE ITEM (7) IN SPECIAL INSTRUCTIONS	SEE ITEM (8) IN SPECIAL INSTRUCTIONS	Sulfide - 9215 (Sulfide)

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YY18	WATER	5-5-09	0945	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
S09V000375	(VOA)												
S09V000376	(NON-VOA)												

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane 5-5-09	1320	RtSteele RtSteele	5-5-09 1320
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-004	PAGE 2 OF 4
COLLECTOR Rosauer, Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 7P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6404, I-004EB	PROJECT DESIGNATION WMA C Sampling for CMS - QC Sampling		SAF NO. V09-003		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 65	ACTUAL SAMPLE DEPTH N/A	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

(1)TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range}
(2)TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range}
(3)VOA - 8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(4)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine}
(5)ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc}
(6)PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260}
(7)Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor, Heptachlor epoxide, Hexachlorobenzene}
(8)IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-044	PAGE 1 OF 1
COLLECTOR: Rosanne Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 p65	ACTUAL SAMPLE DEPTH	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

2225 20090325

SPECIAL HANDLING AND/OR STORAGE
54°F - 12°C

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTB0	SOIL	5-13-09	0930	✓
509V000397				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-13-09 1030	RtStegle RtStegle	5-13-09 1030

SPECIAL INSTRUCTIONS

** All VOA samples will be collected using EPA Method 5035A.
** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-045	PAGE 2 OF 2
COLLECTOR Rosalie Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6404, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 65	ACTUAL SAMPLE DEPTH 19.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-045	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane, Rust	SYDNOR, HA	373-3967	WIDRIG, DL	AIR QUALITY ☐	75 Days / 75 Days
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**		
C6404, I-004	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg 65	19.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

2225 20090325

SPECIAL HANDLING AND/OR STORAGE
54°F – 12°C

PRESERVATION	Cool~6C											
TYPE OF CONTAINER	Liner											
NO. OF CONTAINER(S)	~~1~~ 2 1/2 SAF 5-13-09											
VOLUME	160g											
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS											

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YTB1	SOIL	5-13-09	0930	✓									
S09V000 398													
S09V000 399	S09V000401												
S09V000 400													

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-13-09 / 1030	RHSteele RHSteele	5.13.09 1030
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

2 1/2 liner filled (lack of soil)

☐ ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-046	PAGE 1 OF 2
COLLECTOR: Kauer, White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg [illegible]	ACTUAL SAMPLE DEPTH: 31 to 33'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090325

SPECIAL HANDLING AND/OR STORAGE
1°C / 13°C
34°F / 55°F

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C		
TYPE OF CONTAINER	aGs*	aGs*		
NO. OF CONTAINER(S)	5 ✓	3 ✓		
VOLUME	40mL	40mL		
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YTB2	SOIL	5-18-09	0920	✓	✓								
S09V000410	(hi)												
S09V000411	(Lo)												

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, [signature]	5-18-09 1455	T.M. Gilbert [signature]	5-18-09 1455
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-046	PAGE 2 OF 2
COLLECTOR Kauer, White	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P **AIR QUALITY** ☐	**DATA TURNAROUND** 75 Days / 75 Days
SAMPLING LOCATION C6404, I-005	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-576-3 PS B6	**ACTUAL SAMPLE DEPTH** 31' to 33'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-009	PAGE 1 OF 1
COLLECTOR: Karen White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-005TB	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: 576-3 HNF-N-5[illegible] PG 44	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S2009C345

SPECIAL HANDLING AND/OR STORAGE
13°C/55°F

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YY23	WATER	5-18-09	07:30	✓
509V000377				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: [signature] 5-18-09	DATE/TIME: 1455	RECEIVED BY/STORED IN: [signature] 5-18-09	DATE/TIME: 1455
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

(1)VOA - 8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-047	PAGE 1 OF 1
COLLECTOR: Knox, White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PG 66	ACTUAL SAMPLE DEPTH: 31' to 33'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

2225-0090325

SPECIAL HANDLING AND/OR STORAGE: 13°C/55°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1 ✓
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTB3	SOIL	5-18-09	0920	✓
S09V000412				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Ed Knox/Edward D. Knox	DATE/TIME: 5-18-09 1455	RECEIVED BY/STORED IN: TW Gilbert	DATE/TIME: 5-18-09 1455
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.
** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-048	PAGE 1 OF 2
COLLECTOR: Karen White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 66	ACTUAL SAMPLE DEPTH: 31' to 33'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

2225-2009032 5

SPECIAL HANDLING AND/OR STORAGE: 13°C/55°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTB4	SOIL	5-18-09	0920	✓
S09V000413 (a)				
S09V000414 (b)				
S09V000415 (c)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Ed Knox, Edward Sharm	DATE/TIME: 5-18-09 1455	RECEIVED BY/STORED IN: Tim Gilbert, Tim Gilbert	DATE/TIME: 5-18-09 1455
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-048	PAGE 2 OF 2
COLLECTOR Kauer, White	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6404, I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. PS66 HNF-N-576-33	ACTUAL SAMPLE DEPTH 31' to 33'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-049	PAGE 1 OF 2
COLLECTOR: Kauer, White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 p66	ACTUAL SAMPLE DEPTH: 42' to 44'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222-S-20090325

SPECIAL HANDLING AND/OR STORAGE
34°F 55°F
1°C / 13°C

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YTB5	SOIL	5-18-09	~~8~~ 1140	✓	✓
S09V000427	(hi)				
S09V000428	(lo)				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [signature]	5-18-09 1455	T.M. Gilliek / [signature]	5-18-09 1455

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-049	PAGE 2 OF 2
COLLECTOR Kauer, White	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6404, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 Pg66	ACTUAL SAMPLE DEPTH 42' to 44'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-051	PAGE 1 OF 2
COLLECTOR: Kausk, White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 P66	ACTUAL SAMPLE DEPTH: 42' to 44'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090325

SPECIAL HANDLING AND/OR STORAGE
13°C/55°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTB7	SOIL	5-18-09	1140
S09V000430	(a)		
S09V000431	(b)		
S09V000432	(c)		

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Ed Kausk/[signature]	DATE/TIME: 5-18-09 1455	RECEIVED BY/STORED IN: TM Gilbert [signature]	DATE/TIME: 5-18-09 1455
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-051	PAGE 2 OF 2
COLLECTOR Kauer, White	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6404, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. 1566 HNF-N-576-3	ACTUAL SAMPLE DEPTH 42' to 44'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-052	PAGE 1 OF 2
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 67	ACTUAL SAMPLE DEPTH: 57'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S20090325

SPECIAL HANDLING AND/OR STORAGE
3°C 37°F / 1.7° 35.1°F

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YTB8	SOIL	5-19-09	0945	✓	✓
S09V000442	(Lo)				
S09V000443	(Hi)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-19-09/1330	TM Gilbert Tim Gilbert	5-19-09 1330
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-052	PAGE 2 OF 2
COLLECTOR Rosane Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6404, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 p67	ACTUAL SAMPLE DEPTH 58'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-053	PAGE 1 OF 1
COLLECTOR: Rosane, Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 67	ACTUAL SAMPLE DEPTH: 57'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090325

SPECIAL HANDLING AND/OR STORAGE
1.7°C/35.1°F

PRESERVATION	Cool~6C												
TYPE OF CONTAINER	aGs*												
NO. OF CONTAINER(S)	1												
VOLUME	40mL												
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS												

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTB9	SOIL	5-19-09	0945	✓
S09V000744				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Larry Rosane Larry Rosane	DATE/TIME: 5-19-09/ 1330	RECEIVED BY/STORED IN: TH Gilbert	DATE/TIME: 5-19-09 1330
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.
** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-050	PAGE 1 OF 1
COLLECTOR: Kauer, White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6404, I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 66	ACTUAL SAMPLE DEPTH: 42' to 44'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

2225 20090325

SPECIAL HANDLING AND/OR STORAGE: 13°C/55°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B1YTB6	SOIL	5-18-09	1140
S09V000429			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM: Ed Kauer/Kelly Stone	DATE/TIME: 5-18-09 1455	RECEIVED BY/STORED IN: Thomas L Trotter	DATE/TIME: 5-18-09 1455
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.
** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-054	PAGE 1 OF 2

COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐
SAMPLING LOCATION C6404, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	DATA TURNAROUND 75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 67	ACTUAL SAMPLE DEPTH 57'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.	

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090325

SPECIAL HANDLING AND/OR STORAGE
1.7°C / 35.1°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTC0	SOIL	5-19-09	0945	✓
S09V000445				
S09V000446				
S09V000447				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	5-19-09 / 1330	TM Gilloch	5-19-09 1330
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-054	PAGE 2 OF 2
COLLECTOR Rosanne Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6404, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 67	ACTUAL SAMPLE DEPTH 57'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-061	PAGE 1 OF 2
COLLECTOR Kauer, White	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 70 HNF-N-576-3	ACTUAL SAMPLE DEPTH 5'-7'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

45°F / 45°F
7°C / 7°C

SPECIAL HANDLING AND/OR STORAGE

222 S 20090364

PRESERVATION			Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER			aGs*	aGs*	
NO. OF CONTAINER(S)			5	3 ✓	
VOLUME			40mL	40mL	
SAMPLE ANALYSIS			SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YTC7	SOIL	6-3-09	1120	✓	✓
S09V000476	(Lo)				
S09V000477	(Hi)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
SL Kauer [signature]	6-3-09 1530	Ted Rock [signature]	6-3-09 1530
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-061	PAGE 2 OF 2
COLLECTOR Kaiser, white	**COMPANY CONTACT** SYDNOR, HA	**TELEPHONE NO.** 373-3967	**PROJECT COORDINATOR** WIDRIG, DL	**PRICE CODE** 8P	**DATA TURNAROUND**
SAMPLING LOCATION C6406, I-001	**PROJECT DESIGNATION** WMA C Sampling for CMS		**SAF NO.** V09-002	**AIR QUALITY** ☐	**75 Days / 75 Days**
ICE CHEST NO.	**FIELD LOGBOOK NO.** HNF-N-576-3 Pg 70	**ACTUAL SAMPLE DEPTH** 5-7'	**COA** 301483ES10	**METHOD OF SHIPMENT** GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-062	PAGE 1 OF 1
COLLECTOR: Kauer, White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-001	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 70	ACTUAL SAMPLE DEPTH: 5' to 7	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

7°C/45°F

SPECIAL HANDLING AND/OR STORAGE

2225 20090364

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTC8	SOIL	6-3-09	11:20	✓
S09V000478				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [signature]	6-3-09 1530	Tim Tolliver [signature]	6-3-09 1530
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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.

(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-063	PAGE 1 OF 2
COLLECTOR Kanek white	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 70	ACTUAL SAMPLE DEPTH	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S0090364

SPECIAL HANDLING AND/OR STORAGE
7°C/45°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTC9	SOIL	6-3-09	1120	✓
S09V000479(A)				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kaunz	6-3-09 1530	TM Gilbert	6-3-09 1530

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Only one Liner 1/2 Full

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-063	PAGE 2 OF 2
COLLECTOR Kauer, White	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-001	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. A570 HNF-N-576-3	ACTUAL SAMPLE DEPTH 5' to 7'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-064	PAGE 1 OF 2
COLLECTOR: Kauer, White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 70	ACTUAL SAMPLE DEPTH: 10-12'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090364

SPECIAL HANDLING AND/OR STORAGE
7°C 45°F / 7°C 45°F

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C		
TYPE OF CONTAINER	aGs*	aGs*		
NO. OF CONTAINER(S)	5	3		
VOLUME	40mL	40mL		
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME			
B1YTD0	SOIL	6-3-09	1425	✓	✓	
S09V000494	(LO)					
S09V000495						

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer, Edward Kauer	6-3-09 1530	T.L. Tobel	6-3-09 1530

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-064	PAGE 2 OF 2
COLLECTOR Kauger, White	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. 9570 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-003-010	PAGE 1 OF 1
COLLECTOR: Kauer, White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 7P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-002 TB	PROJECT DESIGNATION: WMA C Sampling for CMS - QC Sampling		SAF NO.: V09-003	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 70	ACTUAL SAMPLE DEPTH: N/A	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

45°F / 7°C 45°F / 7°C

SPECIAL HANDLING AND/OR STORAGE

222S 20090366

PRESERVATION	HCl or H2SO4 to pH <2/Cool~4C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	3
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YY24	WATER	6-3-09	1346	✓
S09V000493				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer / [signature]	6-3-09 1530	Tuc Hock [signature]	6-3-09 1530

SPECIAL INSTRUCTIONS

(1)VOA - 8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-065	PAGE 1 OF 1
COLLECTOR: Kauer, White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: P970 HNF-N-576-3	ACTUAL SAMPLE DEPTH: 10'-12'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090364

SPECIAL HANDLING AND/OR STORAGE
7°C/45°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTD1	SOIL	6-3-09	1425	✓
S09V000496				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kauer/[signature] 6-3-09	1530	[signature] 6-3-09	1530

SPECIAL INSTRUCTIONS

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

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

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

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-066	PAGE 1 OF 2
COLLECTOR: Kauer, White	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-002	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 70	ACTUAL SAMPLE DEPTH: 10'-12'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090364

SPECIAL HANDLING AND/OR STORAGE
7°C/45°F

PRESERVATION	Cool~6C												
TYPE OF CONTAINER	Liner												
NO. OF CONTAINER(S)	2 6-3-09												
VOLUME	160g												
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS												

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	✓									
B1YTD2	SOIL	6-3-09	1425	✓									
S09V000497	(A)												
S09V000498	(B)												

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E. Kauer, Edward Kauer 6-3-09	1530	Tyler Todd Tyler Todd 6-3-09	1530

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS
Liner One Full
Liner Two 1/2

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-066	PAGE 2 OF 2
COLLECTOR Kauer, White	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-002	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. pg 70 HNF-N-576-3	ACTUAL SAMPLE DEPTH 10'-12'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-067	PAGE 1 OF 2
COLLECTOR: Roanne Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6406, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 Pg 71	ACTUAL SAMPLE DEPTH: 14'-16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S 20090364

SPECIAL HANDLING AND/OR STORAGE: 1°C / 12°C / 34°F / 54°F

PRESERVATION			Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER			aGs*	aGs*	
NO. OF CONTAINER(S)			5	3	
VOLUME			40mL	40mL	
SAMPLE ANALYSIS			SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YTD3	SOIL	6-4-09	0934	✓	✓
S09V000539	(Lo)				
S09V000540	(Hg)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Roanne Larry Roanne	6-4-09 1445	Robert R Steele	6-4-09 1445
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-067	PAGE 2 OF 2
COLLECTOR	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. Pg 71 HNP-N-576-3	ACTUAL SAMPLE DEPTH 14-16'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-068	PAGE 1 OF 1
COLLECTOR: Rosanne Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 PS71	ACTUAL SAMPLE DEPTH: 14-16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S 2C09C364

SPECIAL HANDLING AND/OR STORAGE: 12°C/54°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTD4	SOIL	6-4-09	0934	✓
SC9V000541				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	6-4-09 1445	RHStecle RHStecle	6-4-09 1445

SPECIAL INSTRUCTIONS

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

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.

(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-069	PAGE 1 OF 2
COLLECTOR: Rosanne Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6406, I-003	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 P571	ACTUAL SAMPLE DEPTH: 14-16'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

2222 C090364

SPECIAL HANDLING AND/OR STORAGE
12°C/54°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTD5	SOIL	6-4-09	0934	✓
S09V000542	(a)			
543	(b)			
544	(c)			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne	6-4-09 1445	R.K. Steele R.K. Steele	6-4-09 1445
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-069	PAGE 2 OF 2
COLLECTOR Rosane Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-003	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 PTI	ACTUAL SAMPLE DEPTH	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-070	PAGE 1 OF 2
COLLECTOR: Rosanne Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH: 18-20'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

2225 0090364

SPECIAL HANDLING AND/OR STORAGE
1°C / 12°C
34°F / 54°F

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C	
TYPE OF CONTAINER	aGs*	aGs*	
NO. OF CONTAINER(S)	5	3	
VOLUME	40mL	40mL	
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YTD6	SOIL	6-4-09	1030	✓	✓								
5091000555													
5091000556													

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	6-4-09 1445	Richard Ritcolo	6-4-09 1445
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-070	PAGE 2 OF 2
COLLECTOR Rosane Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH 18-20'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-071	PAGE 1 OF 1
COLLECTOR: Rosanne Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH: 18-20'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S 20090364

SPECIAL HANDLING AND/OR STORAGE: 12°C/54°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTD7	SOIL	6-4-09	1030	✓
S09V000537				

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: Lenny Rosane Lenny Rosane	6-4-09 1445	RECEIVED BY/STORED IN: R Steele R Steele	6-4-09 1445
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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-072	PAGE 1 OF 2
COLLECTOR: Rosanne Kamer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6406, I-004	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 p71	ACTUAL SAMPLE DEPTH: 18-20'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

2225 2CC9C364

SPECIAL HANDLING AND/OR STORAGE: 12°C/54°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTD8	SOIL	6-4-09	1030	✓
S09W00558	(a)			
559	(b)			
560	(c)			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosanne Larry Rosanne 6-4-09	1445	RSteele RSteele 6.4.09	1445
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-072	PAGE 2 OF 2
COLLECTOR Rosanne Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-004	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH 18-20'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-073	PAGE 1 OF 2
COLLECTOR: Rosane, Kaur	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6406, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH: 26'-28'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S20090364

SPECIAL HANDLING AND/OR STORAGE: 1°C/12°C 34°F 54°F

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C		
TYPE OF CONTAINER	aGs*	aGs*		
NO. OF CONTAINER(S)	5	3		
VOLUME	40mL	40mL		
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME										
B1YTD9	SOIL	6-4-09	1328	✓	✓								
S09V000571	(Hi)												
S09V000572	(Lo)												

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	6-4-09 1445	Rilton Rilton	6-4-09 1445
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-073	PAGE 2 OF 2
COLLECTOR Rosanne Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 A71	ACTUAL SAMPLE DEPTH 26'-28'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-074	PAGE 1 OF 1
COLLECTOR: Rosane Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH: 26'-28'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S20090364

SPECIAL HANDLING AND/OR STORAGE: 12°C/54°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF0	SOIL	6-4-09	1328	✓
S04V000573				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane 6-4-09	1445	R Kteele RKteele	6-4-09 1445
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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.

(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-075	PAGE 1 OF 2
COLLECTOR: Rosane, Kauer	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND: 75 Days / 75 Days
SAMPLING LOCATION: C6406, I-005	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY: ☐	
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 71	ACTUAL SAMPLE DEPTH: 26 - 28'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.: ~~HNF-N-576-3 pg 71~~ JK 6-4-09		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S20090364

SPECIAL HANDLING AND/OR STORAGE
12°C/54°F

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF1	SOIL	6-4-09	1328	✓
S09V000374	(a)			
375	(b)			
376	(c)			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane	6-4-09 / 1445	R Steele R Steele	6.4.09 1445
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-075	PAGE 2 OF 2
COLLECTOR Rosane Kauer	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-005	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg71	ACTUAL SAMPLE DEPTH 26-28'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	V09-002-076	PAGE 1 OF 2

COLLECTOR	COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE 8P	DATA TURNAROUND
Rosane Rust	SYDNOR, HA	373-3967	WIDRIG, DL		
SAMPLING LOCATION	**PROJECT DESIGNATION**		**SAF NO.**	**AIR QUALITY** ☐	75 Days / 75 Days
C6406, I-006	WMA C Sampling for CMS		V09-002		
ICE CHEST NO.	**FIELD LOGBOOK NO.**	**ACTUAL SAMPLE DEPTH**	**COA**	**METHOD OF SHIPMENT**	
	HNF-N-576-3 pg	54.5'-56.5'	301483ES10	GOVERNMENT VEHICLE	
SHIPPED TO	**OFFSITE PROPERTY NO.**		**BILL OF LADING/AIR BILL NO.**		
222-S Lab Operations					

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

22S20090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YTF2	SOIL	6-9-09	0920	✓	✓
S09V000587	(L.)				
S09V000588	(H.)				

CHAIN OF POSSESSION / **SIGN/ PRINT NAMES**

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Lenny Rosane Tony Rosane	6-9-09/1430	R.H. Steele	6-9-09 1430

SPECIAL INSTRUCTIONS
SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-076	PAGE 2 OF 2
COLLECTOR Rosane Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg	ACTUAL SAMPLE DEPTH 54.5'-56.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-077	PAGE 1 OF 1
COLLECTOR: Rosanne Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg	ACTUAL SAMPLE DEPTH: 54.5'-56.5'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S50090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF3	SOIL	6-9-09	0920	✓
S09V000589				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Lerry Rosanne Lerry Rosanne	6-9-09 1430	Rfstedo Rfstedo	6-9-09 1430

SPECIAL INSTRUCTIONS

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

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-078	PAGE 1 OF 2
COLLECTOR: Rosane Rust	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-006	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg	ACTUAL SAMPLE DEPTH: 54.5-56.5'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S 2009 0364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF4	SOIL	6-9-09	0920	✓
509V000 590				
↓ 591				
592				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Larry Rosane Larry Rosane 6-9-09	1430	RRSteele RRSteele	6.9.09 1430
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-078	PAGE 2 OF 2
COLLECTOR Rosane Rust	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P AIR QUALITY ☐	DATA TURNAROUND 75 Days / 75 Days
SAMPLING LOCATION C6406, I-006	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002		
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg	ACTUAL SAMPLE DEPTH 54.5' - 56.5'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-079	PAGE 1 OF 2
COLLECTOR: Rosanne Rust, Kaye	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 72	ACTUAL SAMPLE DEPTH: 59-61'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

222S20090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YTF5	SOIL	6-9-09	1055	✓	✓
S09V000604 + S09V000603					
~~605 (HI)~~ ~~(LO)~~					
~~(LO)~~ (HI)					

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES: RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: E.J. Kavin/EJ Kavin 6-9-09	1430	R.L. Steele/RL Steele 6.9.09	1430
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-079	PAGE 1 OF 2
COLLECTOR: Rosanne Rust, Kaye	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 72	ACTUAL SAMPLE DEPTH: 59-61'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*: A=Air, DL=Drum Liquids, DS=Drum Solids, L=Liquid, O=Oil, S=Soil, SE=Sediment, T=Tissue, V=Vegitation, 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)

2225 20090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool <-7C and >-20C	MEOH/Cool~6 C
TYPE OF CONTAINER	aGs*	aGs*
NO. OF CONTAINER(S)	5	3
VOLUME	40mL	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME		
B1YTF5	SOIL	6-9-09	1055	✓	✓
S09V000604 (HI)	S09V000603 (LO)				

CHAIN OF POSSESSION		SIGN/ PRINT NAMES	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
E. Kaye / [signature] 6-9-09	1430	[signature] / R Steele 6.9.09	1430
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

☐ ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-079	PAGE 2 OF 2
COLLECTOR Rosanne Rust Kaur	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 72	ACTUAL SAMPLE DEPTH 59-61'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

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 an appended 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.

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (LOW LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}
(2)VOA - 5035/8260 (HIGH LEVEL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-080	PAGE 1 OF 1
COLLECTOR: Rosane Rust Kown	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 72	ACTUAL SAMPLE DEPTH: 59'-61'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S 20090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	aGs*
NO. OF CONTAINER(S)	1
VOLUME	40mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF6	SOIL	6-9-09	1055	✓
S09 VOOO 605				

CHAIN OF POSSESSION / SIGN/ PRINT NAMES

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
Ed Kwa / [signature] 6-9-09	1430	[signature]	6-9-09 1430

SPECIAL INSTRUCTIONS

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

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)VOA - 5035/8260 (TCL) (TF) {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, 2-Pentanone, 4-Methyl, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, Diethyl ether, Ethyl acetate, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Trichloromonofluoromethane, Vinyl chloride, Xylenes (total), cis-1,2-Dichloroethylene, m-Xylene, o-Xylene, p-Xylene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene}

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-081	PAGE 1 OF 2
COLLECTOR: Rosane Rust Kruz	COMPANY CONTACT: SYDNOR, HA	TELEPHONE NO.: 373-3967	PROJECT COORDINATOR: WIDRIG, DL	PRICE CODE: 8P	DATA TURNAROUND
SAMPLING LOCATION: C6406, I-007	PROJECT DESIGNATION: WMA C Sampling for CMS		SAF NO.: V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO.: HNF-N-576-3 pg 72	ACTUAL SAMPLE DEPTH: 59'-61'	COA: 301483ES10	METHOD OF SHIPMENT: GOVERNMENT VEHICLE	
SHIPPED TO: 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegitation
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)

222S20090364

SPECIAL HANDLING AND/OR STORAGE

PRESERVATION	Cool~6C
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	3
VOLUME	160g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	
B1YTF7	SOIL	6-9-09	1055	✓
SO9V000 606				
607				
608				

CHAIN OF POSSESSION	DATE/TIME	SIGN/ PRINT NAMES	DATE/TIME
RELINQUISHED BY/REMOVED FROM: E Knox/ [signature]	6-9-09 1430	RECEIVED BY/STORED IN: R Kent L Steele	6-9-09 1430
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

ORIGINAL

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

A-6003-618(01/06)

Washington River Protection Solutions	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			V09-002-081	PAGE 2 OF 2
COLLECTOR Rosane Rust Kwa	COMPANY CONTACT SYDNOR, HA	TELEPHONE NO. 373-3967	PROJECT COORDINATOR WIDRIG, DL	PRICE CODE 8P	DATA TURNAROUND
SAMPLING LOCATION C6406, I-007	PROJECT DESIGNATION WMA C Sampling for CMS		SAF NO. V09-002	AIR QUALITY ☐	75 Days / 75 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-576-3 pg 72	ACTUAL SAMPLE DEPTH 59-61'	COA 301483ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE	
SHIPPED TO 222-S Lab Operations	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		

SPECIAL INSTRUCTIONS

** After VOA bottles for the direct pushes are filled, the NCOs will cap remaining liners for shipment to 222-S. Where capping is not possible, they will put into 500 mL or 250 mL poly bottles with Teflon lined lids.
(1)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-Methylphenol (cresol, m-), 4-Chloro-3-methylphenol, 4-Methylphenol (cresol, p-), 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, Dibutylphosphate, Ethylene glycol, Fluoranthene, Hexachlorobutadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isobutyl alcohol, Monobutyl phosphate, Naphthalene, Nitrobenzene, Pentachlorophenol, Pyrene, Pyridine, Total cresols, Tributyl phosphate, n-Nitrosodi-n-dipropylamine, n-Nitrosomorpholine} ICP Metals - 6010 (SW-846) (TF) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Lithium, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Uranium, Vanadium, Zinc} Mercury - 7471 - (CV) (TF) {Mercury} PCBs - 8082 {Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260} TPH-Gasoline Range - WTPH-G {Total petroleum hydrocarbons - gasoline range} TPH-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range} Pesticides - 8081 (TF) {2,4'-DDD (Dichlorodiphenyldichloroethane), 2,4'-DDE (Dichlorodiphenyldichloroethylene), 2,4'-DDT (Dichlorodiphenyltrichloroethane), 4,4'-DDD (Dichlorodiphenyldichloroethane), 4,4'-DDE (Dichlorodiphenyldichloroethylene), 4,4'-DDT (Dichlorodiphenyltrichloroethane), Aldrin, Chlordane, Dieldrin, Endrin, Gamma-BHC (Lindane), Heptachlor epoxide, Hexachlorobenzene} IC Anions - 9056 {2-Hydroxyacetate, Acetate, Chloride, Fluoride, Formate, Nitrate, Nitrite, Oxalate, Sulfate} 300.7_AMMONIUM (TF) {Nitrogen in ammonium} Sulfide - 9215 {Sulfide} Total Cyanide - 9014 (TF) {Cyanide} pH (Soil) - 9045 {pH Measurement} GAMMA ENERGY ANALYSIS (TF) {Antimony-125, Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Actinides ICPMS (TF) {Neptunium-237, Technetium-99, Thorium-230, Thorium-232, Tin-126, Uranium-233, Uranium-234, Uranium-235, Uranium-236, Uranium-238} Americium-241 (TF) {Americium-241} I129_SEP_GEA (TF) {Iodine-129} C-14 {Carbon-14} CURIUM {Curium-242, Curium-243, Curium-244} H3 - TRITIUM {Tritium} Isotopic Plutonium {Plutonium-238, Plutonium-239/240} Nickel-63 (TF) {Nickel-63} Selenium-79 (TF) {Selenium-79} Strontium-89,90 -- Sr-90 {Strontium-90}

ORIGINAL

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GENERATOR KNOWLEDGE INFORMATION

1. Chain of Custody Number _____ CACN/COA _____ Customer Identification Number _____

2. List generator knowledge or description of process that produced sample. Or list description of sample source:
241-C Tank Farm UPR 200 E 81 or C5-151 soil samples

MSDS Available? ⊗ No ○ Yes Hanford MSDS No. _____

3. List all waste codes and constituents associated with the waste or media that was sampled, regardless of CERCLA status.

a) Does the sample contain any of the following listed waste codes?
By checking "unknown" the customer understands that no knowledge is available following a careful search.

	List Federal Waste Code(s):	List Constituent(s):			
P Codes:			○ Yes	◉ No	○ Unknown
U Codes:			○ Yes	◉ No	○ Unknown
K Codes:			○ Yes	◉ No	○ Unknown
F Codes:	F-001 through F-005		◉ Yes	○ No	○ Unknown

b) List applicable characteristic waste codes, flash point, pH, constituents, and concentrations as appropriate.

D001:	☐ FP <100°F	☐ FP ≥100 <140°F	☐ DOT Oxidizer	○ Yes	◉ No	○ Unknown
D002:	☐ pH ≤2	☐ pH ≥12.5	☐ Solid Corrosive (WSC2)	○ Yes	◉ No	○ Unknown
D003:	☐ Cyanide	☐ Sulfide	☐ Water Reactive	☐ Other _____ (i.e., peroxide former, explosive, air reactive)	○ Yes	◉ No	○ Unknown
D004-D043 (Identify applicable waste codes and concentrations):					◉ Yes	○ No	○ Unknown

chrommium (D007), Lead (D008)

c) If characteristic, list any known underlying hazardous constituents (UHCs) reasonably expected to be present, and their concentrations that may be present above the LDR treatment standard (40 CFR 268.48):

d) List any known Land Disposal Restrictions (LDR) subcategories, if applicable (40 CFR 268.40):

e) List any applicable Washington State dangerous waste codes: (not required if federally regulated)

WT01:	○ Yes	○ No	○ Unknown
WT02:	○ Yes	○ No	○ Unknown
W001:	○ Yes	○ No	○ Unknown

List constituents and concentrations:

(*State mixture rule for ignitability)

WP01:	○ Yes	○ No	○ Unknown
WP02:	○ Yes	○ No	○ Unknown
WP03:	○ Yes	○ No	○ Unknown
F003:*	○ Yes	○ No	○ Unknown

4. Is this material TSCA regulated for PCBs? ○ Yes ◉ No ○ Unknown ○ Analysis Requested

List concentration if applicable: _____

If yes, what is the source of the PCBs? (see TSCA PCB Hanford Site User Guide, DOE/RL-2001-50)

☐ PCB Liquid Waste ☐ PCB Bulk Product Waste ☐ PCB Transformer ≥500 ppm ☐ Unknown
☐ PCB Remediation Waste ☐ PCB R&D Waste ☐ PCB contaminated electrical equipment (capacitor/ballast) <500 ppm
☐ PCB Spill Material ☐ PCB Item ☐ Other PCB Waste (list) _____

5. Is this material TRU? ○ Yes ○ No ◉ Unknown

6. ACCURACY OF INFORMATION

Based on my inquiry of those individuals immediately responsible for obtaining this information, that to the best of my knowledge, the information entered in this document is true, accurate, and complete.

Print & Sign Steve McKinney Steve McKinney for Jim Field per telecon Date 5/14/08

A-6002-990 (08/03)

This is the Distribution for the RPP-RPT-44557 Rev.0 final report, according to the TSAP.

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E. J Wyse is the QA reviewer

Title: FINAL ANALYTICAL REPORT FOR SAMPLES FROM WASTE MANAGEMENT AREA C FOR CORE HOLES: C6392, C6400, C6402 C6404, AND C6406, IN SUPPORT OF RCRA SOIL CHARATERICZATION