March 29, 2016

North Carolina Department of Environmental Quality
Division of Waste Management, Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, North Carolina 27699

Attn: Ms. Katie Tatum
Project Manager

Re: **Potable Well Sampling Report**
Pine Level Dump
Selma, Johnston County, North Carolina
ID# NONCD0000382 – Task Order 382MON

Dear Ms. Tatum:

URS Corporation – North Carolina (URS) is pleased to provide the results of potable well sampling performed in the vicinity of the Pine Level Dump (the Site) in Selma, North Carolina. This report describes the details for potable well sampling conducted in accordance with the February 12, 2016 authorization associated with Task Order 382MON by the North Carolina Department of Environmental Quality (NCDEQ) Pre-Regulatory Landfill Unit (the Unit).

On March 1, 2016, URS was able to access and collect a water sample from one residential potable well located near the Site at 1820 Rains Crossroads Road in Selma. One field duplicate sample was also collected during the sampling event. URS attempted to collect a water sample from another residential potable well located at 1980 Rains Crossroads Road; however, the spigot at the residence was dry. URS attempted to contact the property owner again by knocking on the door but did not receive an answer. URS notified the Unit on March 2, 2016 that water was not present, as additional sampling was being completed in the area on March 2, 2016. Initial permission to sample the wells from the property owner was obtained by the Unit. Field procedures were performed in accordance with the URS *Standard Operating Procedures/Quality Assurance Manual* (SOP/QAM), dated June 21, 2010. Field notes from the sampling event are included as **Attachment 1**. A photo log is provided in **Attachment 2**. A site map showing the location of the potable wells is provided on **Figure 1**.

Water samples were collected into laboratory-supplied containers and submitted to the laboratory for the analysis of volatile organic compounds (VOCs) by SW-846 8260B, 1,4-dioxane by SW-846 8260B Select Ion Monitoring (SIM), semi-volatile organic compounds (SVOCs) by SW-846 8270D, metals by Environmental Protection Agency (EPA) Methods 200.8 and 245.1, nitrate and sulfate by EPA Method 300/SW-846 9056A, and ammonia by EPA Method 350.1. Samples collected in the field were placed on ice in an insulated cooler and transported to the laboratory via courier as expeditiously as possible. A chain-of-custody record accompanied the

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1600 Perimeter Park Drive, Suite 400
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shipment of samples to the laboratory. The analytical laboratory report is included as **Attachment 3**.

URS conducted a completeness check for the analytical results reported by SGS Accutest for the Site. All documentation required by the project was included in the laboratory report. The reported detection limits for undiluted samples were less than standards that are greater than the practical quantitation limit. Samples were analyzed in accordance with laboratory protocols and analytical methods. Samples were prepared and analyzed within EPA-established holding times. Quality control results that did not meet laboratory specifications are discussed in the Case Narrative of the laboratory report, and the effect on reported sample results discussed. Sample results are flagged in the laboratory report due to trace analyte concentrations (J-flag). Water sample results, as reported by the laboratory, are presented in **Table 1**. Laboratory data are usable for the samples collected for their intended purpose.

Sample results were compared to EPA Maximum Contaminant Levels (MCL) and North Carolina 2L (NC 2L) groundwater standards. There were no exeedances detected in the water sample collected from 1820 Rains Crossroads Road ('Well-1820 Pine'). Results are summarized for the sampling event in **Table 1.**

If you have any questions or require additional information, please do not hesitate to contact me at 919-461-1341.

Sincerely,
URS CORPORATION-NORTH CAROLINA

Carlin Slusher
Project Manager

Attachments:

Table 1 – Summary of Potable Well Analytical Results
Figure 1 – Site Map
Attachment 1 – Field Notes
Attachment 2 – Photo Log
Attachment 3 – Laboratory Report

Table 1
Summary of Potable Well Analytical Results
Pine Level Dump, NONCD0000382

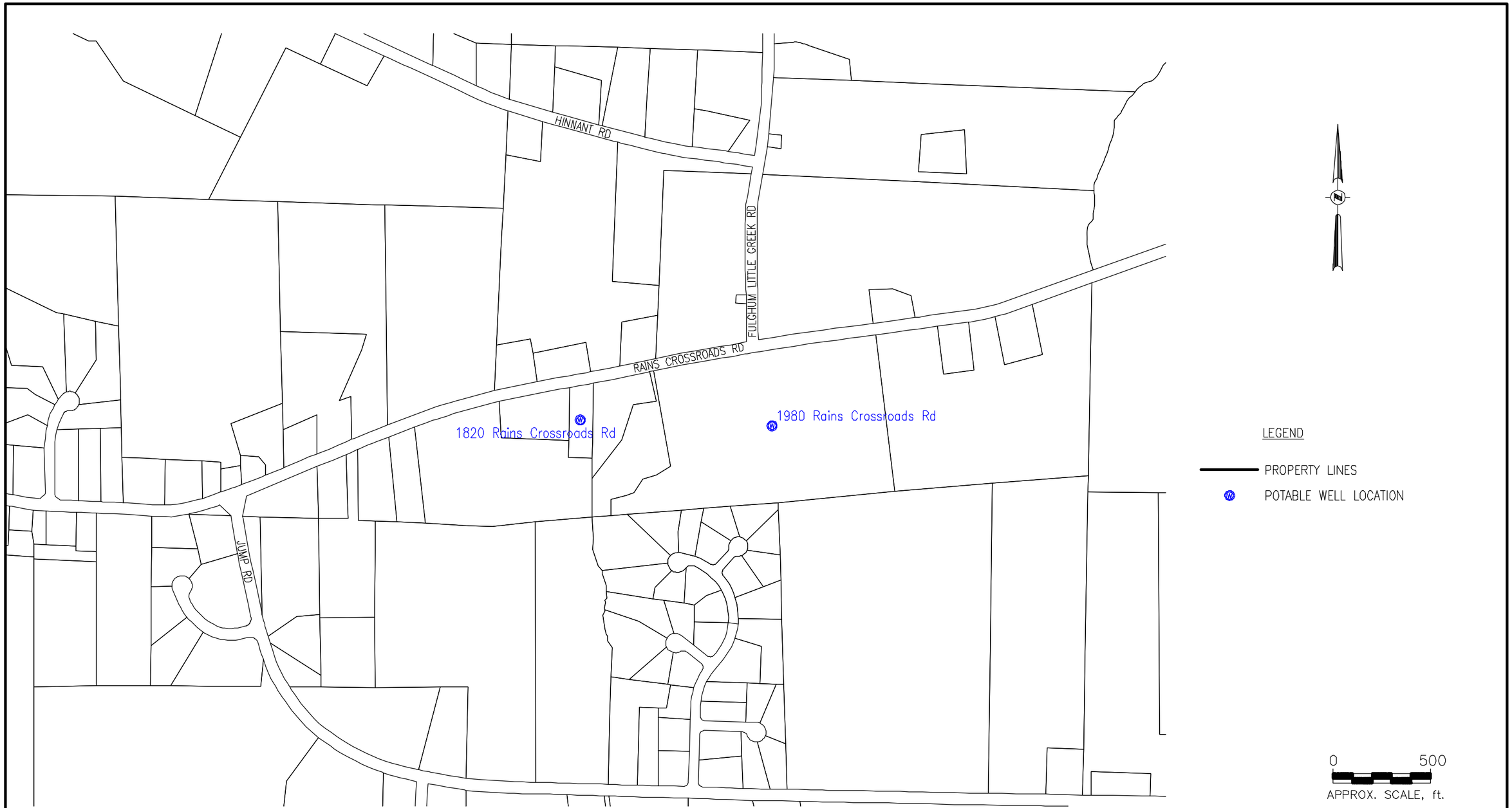
Client Sample ID:	**NC 2L**	**MCL**	**WELL-1820 PINE**	**DUP-2**
Date Sampled:			**3/1/2016**	**3/1/2016**
Analytes:				**DUP(1)**
Volatiles (SW-846 8260B Full Scan)	NA	NA	ND	ND
Volatiles (SW-846 8260B SIM)				
1,4-Dioxane	0.003	NG	ND	ND
Semivolatiles (SW-846 8270D)	NA	NA	ND	ND
Metals (EPA 200.8 and 245.1)				
Arsenic	0.010	0.010	0.00036 J	0.00033 J
Chromium	0.010	0.100	0.00010 J	ND
Copper	1	1.300	0.0027 J	0.0029 J
Iron	0.300	NG	0.0167 J	0.0145 J
Lead	0.015	0.015	0.00025 J	0.00025 J
Manganese	0.050	NG	0.00012 J	ND
Thallium	0.0002 (I)	0.002	0.000022 J	0.000020 J
Zinc	1	NG	0.0039 J	0.0047 J
Miscellaneous Chemistry (EPA 300 and 350.1)				
Ammonia (EPA 350.1)	1.5 (I)	NG	0.032 J	ND
Sulfate (EPA 300)	250	NG	5.0	5.2

Notes:
I - NC Interim Maximum Allow Concentration (IMAC) established under 15A NCAC 2L.0202
MCL - EPA National Primary Drinking Water Standard Maximum Contaminant Level
NC 2L - 15A NCAC 02L .0202, effective April 1, 2013
(1) DUP-2 is a field duplicate of WELL-1820 PINE

EPA - Environmental Protection Agency
J - Estimated value
MDL - Method detection limit
NA - Not applicable
ND - Analyzed for but not detected at the MDL
NG - No goal established
SIM - Selective Ion Monitoring
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (EPA)

This table presents the results of all detected analytes. All results are reported in milligrams per liter (mg/L).

Bold and outlined results indicate the concentration is greater than the MCL, or the NC 2L groundwater standard in absence of the MCL.



SCALE	DESIGNED BY	DATE	Site Map Pine Level Dump NONCD0000382		
AS SHOWN	DRAWN BY TSH	DATE 08FEB16			
URS RDU, NORTH CAROLINA 27560	CHECKED BY CS	DATE 08FEB16	CONTRACT NO. 60482357	DRAWING NO. FIGURE-1	REV.
	APPROVED BY CS	DATE 08FEB16			

Daily Activity Log

Project Name: Pine Level Dump
Task Order: 382MON
Field Personnel: J Abbassi; A Bock
Project Manager: Carlin Slusher
Date: 3/1/2016
Weather: Cloudy ~55°F
Daily Objective: WSW Sampling

1330 URS Arrives onsite. Knocks on door and meets property manager who explains where outdoor spigot is.
1333 Begin running water from spigot
1340 Begin YSI readings
1350 Collect sample "Well-1820 Pine" and field duplicate
1407 Complete sampling
1410 Clean up and inform property manager that sampling activities are complete
1415 Mob to 1980 Rains Crossroads Rd.
1420 Arrive at 1980 Rains. Knocked on door of trailer - no answer
1423 Site walk around trailer and two sheds in an attempt to locate outdoor spigot. One spigot found attached to trailer. Pipe leading to spigot covered in insulating material. Spigot is dry. Call Carlin Slusher to discuss issue.
Do another walk around trailer to verify no other spigot is present on trailer. Take pictures of spigot and trailer.
1435 Do site walk around property in an attempt to locate standing detached spigot in field. None found. Pictures taken.
1445 URS offsite to meet lab courier and ship samples for the day's sampling activities.

Water Sample Collection Field Sheet

Project Name: Pine Level Dump

Task No: 382MON

Sample ID: Well-1820 Pine

Date/Time Collected: 3/1/2016 @ 13:50

Personnel: J. Abbassi, A. Bock

Sample Method: spigot

SAMPLE MEDIA: Groundwater Potable Well Surface Water

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis

WELL PURGING DATA

Date: 3/1/2016

Time Started: 1333

Time Completed: 1407

Well Depth (ft. BTOC): —

Depth to Water (ft BTOC): —

Actual Purge (liters): —

Purge rate (liters/min): —

FIELD MEASUREMENTS

Time	Amount Purged (Liters)	Depth to Water (ft)	pH	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTUs)	~~Comments~~ DO mg/L	ORP
1340	–	–	6.14	16.76	0.192	1.8	7.35	338.4
1343	–	–	5.95	16.14	0.160	1.4	5.55	347.2
1346	–	–	5.91	15.68	0.159	1.6	4.16	348.8

FIELD EQUIPMENT AND CALIBRATION

	Make/Model	Serial No	Calibration
Water Level Probe			
Pump			
Water Quality Meter			
Turbidity Meter			

GENERAL COMMENTS

DUP-2 Collected @ 1400

DAILY INSTRUMENT CALIBRATION CHECK SHEET (CONT.)

MANUFACTURER	MODEL # & SERIAL #	FACTORY CALIBRATION DATE	DETECTION LIMIT	PARAMETERS CALIBRATED	SUMMARY OF FIELD CALIBRATIONS (what methods, manufacturer's specifications, type of calibration gas, expiration date, etc.)	
YSI	07K100323			pH, ORP, cond	pH: 4.15 cal to 4 cond: 1.650 ms/cm cal to 1.413 6.85 " " 7 ORP: 200.9 cal to 200 10.17 " " 10	3/1/2016 1015
LaMotte Turbidimeter	2020			Turb	1.16 cal to 1 9.9 cal to 10	
YSI				pH cal check	pH 4.05 ± .20 cond ± 20% 7.01 " " ORP " " 10.03 " "	1105
YSI				pH cal check	pH 4.09 ± .20 cond ± 20% 7.11 " " ORP " " 10.04 " "	3/1/2016 1320
YSI				pH cal check	pH 4.07 ± .20 cond ± 20% 7.04 " " ORP " " 10.02 " "	3/2/2016 @ 1200
Turbidimeter				Turb	10 : 10 No cal necessary	
YSI				pH cal check	4.09 ± .20 cond ± 20% 7.08 " " ORP " " 10.11 " "	3/2/2016 @ 1205

Notes:
Field instruments must be calibrated in accordance with manufacturer specifications.
Bump calibration tests should be completed before, during, and after field evaluation to confirm calibration.
If field conditions change (e.g. barometric, temperature, humidity changes), recalibration should be completed and documented.
All field calibrations need to be documented, otherwise, the data could be rejected by NCDENR.

Site Name: Pine Level Dump	Site ID: NONCD0000382

Photo 1: Water supply well for 1820 Rains Crossroads Road

Photo 2: Spigot used to sample water supply well at 1820 Rains Crossroads Road

Site Name: Pine Level Dump	Site ID: NONCD0000382

Photo 3: Dry spigot at 1980 Rains Crossroads Road

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e-Hardcopy 2.0
Automated Report

Technical Report for

AECOM, INC.

Pine Level Dump; Rains Crossroads Rd, Selma, NC

60482357.20000

SGS Accutest Job Number: FA31827

Sampling Date: 03/01/16

Report to:

AECOM, INC.
1600 Perimeter Park Drive Suite 400
Morrisville, NC 27560
ncchemists@urs.com

ATTN: Martha Meyers-Lee

Total number of pages in report: **248**

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

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)
DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177),
AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

SGS Accutest is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.

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SGS Accutest

Sample Summary

AECOM, INC.

Job No: FA31827

Pine Level Dump; Rains Crossroads Rd, Selma, NC
Project No: 60482357.20000

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA31827-1	03/01/16	13:50	JAAB	03/02/16	AQ	Water	WELL-1820 PINE
FA31827-2	03/01/16	14:00	JAAB	03/02/16	AQ	Water	DUP-2
FA31827-3	03/01/16	00:00	JAAB	03/02/16	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: AECOM, INC. **Job No:** FA31827

Site: Pine Level Dump; Rains Crossroads Rd, Selma, NC **Report Date** 3/16/2016 6:32:59 PM

2 Samples and 1 Trip Blank were collected on 03/01/2016 and were received at SGS Accutest Southeast (SASE) on 03/02/2016 properly preserved, at 2.6 Deg. C and intact. These Samples received an SASE job number of FA31827. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VC4545

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA31886-19MS, FA31886-19MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Methyl Acetate are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane are outside control limits for sample FA31886-19MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA31827-1 has surrogates outside control limits. Probable cause is due to matrix interference.

FA31827-1 for Dibromofluoromethane: Outside control limits; however, sample is ND.

Matrix: AQ **Batch ID:** VC4546

All samples were analyzed within the recommended method holding time.

Sample(s) FA31814-5MS, FA31814-5MSD were used as the QC samples indicated.

Sample(s) FA31827-3 has compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.

Blank Spike Recovery(s) for 1,2-Dibromoethane are outside control limits. Recovery is biased high. Analyte is on-detect in associated sample; therefore data is not adversely affected.

Matrix Spike Duplicate Recovery(s) for Tetrachloroethylene are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for 2-Hexanone are outside control limits for sample FA31814-5MSD. Probable cause is due to sample non-homogeneity.

FA31827-3 for 1,2-Dibromoethane: Associated BS recovery outside control limits.

Volatiles by GCMS By Method SW846 8260B BY SIM

Matrix: AQ **Batch ID:** VA1882

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA31768-18MS, FA31768-18MSD were used as the QC samples indicated.

Matrix Spike Duplicate Recovery(s) for 1,4-Dioxane are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP59597

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA31863-3MS, FA31863-3MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP59597

Matrix Spike / Matrix Spike Duplicate Recovery(s) for 4-Nitrophenol are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

FA31827-1 for Benzaldehyde: Associated CCV outside control limits.

FA31827-2 for Benzaldehyde: Associated CCV outside control limits.

Metals By Method EPA 200.8

Matrix: AQ **Batch ID:** N: MP92393

FA31827-1 for Antimony: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Arsenic: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Beryllium: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Cadmium: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Chromium: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Copper: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Iron: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Lead: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Manganese: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Nickel: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Selenium: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Silver: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Thallium: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-1 for Zinc: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Antimony: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Arsenic: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Beryllium: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Cadmium: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Chromium: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Copper: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Iron: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Lead: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Manganese: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Nickel: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Selenium: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Silver: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Thallium: Analysis performed at Accutest Laboratories, Dayton, NJ.

FA31827-2 for Zinc: Analysis performed at Accutest Laboratories, Dayton, NJ.

Metals By Method EPA 245.1

Matrix: AQ **Batch ID:** MP30081

All samples were digested within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA31983-1DUP, FA31983-1MS, FA31983-1MSD, FA31983-1SDL were used as the QC samples for metals.

Wet Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP27520

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA31827-1MS, FA31827-1MSD were used as the QC samples for Nitrogen, Nitrate, Sulfate.

Wet Chemistry By Method EPA 350.1

Matrix: AQ **Batch ID:** GP27572

All samples were prepped within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA31925-3MS, FA31925-3MSD were used as the QC samples for Nitrogen, Ammonia.

Matrix Spike Recovery(s) for Nitrogen, Ammonia are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Lovelie Metzgar

Date: March 16, 2016

Lovelie Metzgar, QA Officer

Laboratory Report Glossary

Client Sample ID: Normally refers to a point of collection – a monitoring well, discharge outfall, treatment facility intake, soil core grid location and depth, or any other identification client assigns to a sample.
Lab Sample ID: Letter prefix identifies one of Accutest laboratories and the rest is a consecutive number of the job (or SDG) received. Number after dash is a sample number and it is unequivocally linked in the LIMS to the Client Sample ID (see above).
Matrix (Matrix Code):

- **AQ- Water Samples**
- **SO- Soil/Solid Samples**
- **LIQ- Non-Water Liquid Samples**
- **OIL- Oil Samples**

Matrix Type:

- **SW for Surface Water**
- **SO for Soil/Sediment**
- **GW for Ground Water**
- **DW for Drinking Water**

All available definitions are found on Chain of Custody form.

Deg. C: Degrees Celsius, measurement of temperature.
Method: Analytical and preparation methods used for the analysis, with the version or revision identified.
Date Sampled: This information is entered from Chain of Custody at the time of login for every sample.
Date Received: When the job was received by Accutest Laboratories.
Percent Solids: Applicable only to SO matrix. For other matrices this field defaults to "n/a".
Run #: Provides information how many attempts were made in the analysis of the sample. LIMS can merge information from several attempts and lists all of them, including dilution, confirmation, etc. #1 designation is assigned to the analytical run with majority of analytes reported from it, not necessarily in chronological order.
File ID: Actual instrument data acquisition file that produced the final result. Letter prefix identifies the instrument; the rest is a consecutive injection number for that instrument.
DF (Dilution Factor): Most common reasons are either to fit into the range of the calibration, or alleviate matrix interference. DF other than 1 are accompanied with a comment at the end of the sample report.
Analyzed: Date of analysis.
By: Field Technician or Analyst uniquely identified by initials.
Prep Date: Date of sample preparation. If hold time is 72 hours or less, time of preparation is also indicated.
Prep Batch: Letter prefix OP followed by a consecutive number. For VOC analysis preparation happens at the time of analysis, therefore analytical batch and preparation batch are the same. Size of prep batch is limited to 20 field samples of similar matrix and the entire batch should be completed within 12 hour time.
Analytical Batch: Letter prefix identifies the instrument and is followed by a consecutive number. Not limited by a number of samples.
Initial Weight or Initial Volume: Raw sample size used for preparation.
Final Volume: Final volume of extract. If different from method-prescribed volume, reasons are reflected in the comments at the end of the report form.
CAS Number: *Chemical Abstracts Service* (CAS), a division of the *American Chemical Society*.
Compound: Most commonly used names of chemical compounds.
Result: Depending on project requirements, this field could be set up as text, such as ND (for Non Detected) or a number. The number may be reported with a qualifier.
MDL (Method Detection Limit): This value is defined as 99% probability that analyte above this concentration is positively (qualitatively) identified.
RL (Reporting Limit): This value is supported by the low calibration standard and defines lowest point of quantitative identification of analyte.
DL (Detection Limit): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration with 99% confidence. At the DL, the false positive rate (Type I error) is 1%.
LOD (Limit of Detection): The smallest concentration of a substance that must be present in a sample in order to be detected at the DL with 99% confidence. At the LOD, the false negative rate (Type II error) is 1%.
LOQ (Limit of Quantitation): The smallest concentration that produces a quantitative result with known and recorded precision and bias.

Units: ug/l (micrograms per liter) for aqueous samples and ug/kg (micrograms per kilogram) for solids (or ppb – parts per billion). The units could be set according to project or state-specific requirements, such as mg/l (milligrams per liter), or mg/kg (milligrams per kilogram).
Qualifiers (Q): Definitions of most often used qualifiers are found at the bottom of each result page. Applied depending on the program – state-specific (Florida A.C. 62-160), CLP-like, AFCEE, DOD QSM, etc.
Tentatively Identified Compound (TIC): Used when client requests a search for analytes that are not part of instrument calibration. Unknown peaks are compared with published spectral libraries and best match is reported as TIC.
Surrogate (S1, S2, S3 etc.): are positive controls that are used in most organics methods to ascertain preparation efficiency and matrix effect in individual samples. These chemicals mimic common method constituents but are unlikely to be found in real samples. Recoveries can be reported for every analytical run used in the analysis.
IS (Internal Standard IS1, IS2, IS3, etc): quantitative reference used to adjust for instrument performance fluctuations.
Area (of chromatographic peak): signal intensity directly related to compound concentration.
RT (Retention Time): time required for analyte to traverse the length of analytical column. Used for compound identification.
ICAL (Initial Calibration): Must pass calibration criteria established by method.
ICV (Independent Calibration Verification): Used to verify ICAL preparation and concentration of calibration points.
CCV (Continuing Calibration Verification): Used to assess calibration status of the instrument and must recover within established acceptance criteria.
MB (Method Blank): is a negative batch control. MB is an aliquot of matrix free of analyte of interest (either ASTM Type II water or appropriate solid substance) that is put through all the preparation and possible clean-up steps alongside investigative (field) samples. MB should be free of interferences above a set level.
BS (Blank Spike, Laboratory Fortified Blank - LFB, Laboratory Control Sample - LCS): is a positive control used to determine method accuracy - in clean matrix, i.e. matrix free of analytes of interest.
BSD (Blank Spike Duplicate): Used to assess recovery reproducibility - method precision – per analytical method requirement. %Recovery and Relative Percent Difference (%RPD) are compared with the established acceptance criteria.
MS and/or **MSD (Matrix Spike and Matrix Spike Duplicate):** positive batch controls which indicate matrix effect on the precision and accuracy of the method in given sample matrix. Results are expressed in %Recovery and Relative Percent Difference (%RPD), and compared with the established acceptance criteria.
DUP (Matrix Duplicate): Positive batch control, a way of assessing laboratory's precision; however, the composition of the samples is unknown and may not yield meaningful results.
REC (Recovery in Percent): expresses method accuracy.
RPD (Relative Percent Difference): expresses method precision.
Limits: Recovery limits for surrogates and spikes

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Accutest Laboratories Southeast, Inc.	**Job No**	FA31827
Site:	URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC	**Report Date**	3/16/2016 5:14:51 PM

On 03/05/2016, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a maximum corrected temperature of 3.6 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of FA31827 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method EPA 200.8

Matrix: AQ **Batch ID:** MP92393

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) FA31827-1MS, FA31827-1MSD were used as the QC samples for metals.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Summary of Hits

Job Number: FA31827
Account: AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC
Collected: 03/01/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA31827-1	**WELL-1820 PINE**					
Arsenic [a]		0.00036 J	0.0010	0.000034	mg/l	EPA 200.8
Chromium [a]		0.00010 J	0.0040	0.00010	mg/l	EPA 200.8
Copper [a]		0.0027 J	0.0040	0.00014	mg/l	EPA 200.8
Iron [a]		0.0167 J	0.050	0.0020	mg/l	EPA 200.8
Lead [a]		0.00025 J	0.00050	0.000011	mg/l	EPA 200.8
Manganese [a]		0.00012 J	0.0010	0.000095	mg/l	EPA 200.8
Thallium [a]		0.000022 J	0.00050	0.000013	mg/l	EPA 200.8
Zinc [a]		0.0039 J	0.010	0.0012	mg/l	EPA 200.8
Nitrogen, Ammonia		0.032 J	0.10	0.030	mg/l	EPA 350.1
Sulfate		5.0	2.0	0.60	mg/l	EPA 300/SW846 9056A
FA31827-2	**DUP-2**					
Arsenic [a]		0.00033 J	0.0010	0.000034	mg/l	EPA 200.8
Copper [a]		0.0029 J	0.0040	0.00014	mg/l	EPA 200.8
Iron [a]		0.0145 J	0.050	0.0020	mg/l	EPA 200.8
Lead [a]		0.00025 J	0.00050	0.000011	mg/l	EPA 200.8
Thallium [a]		0.000020 J	0.00050	0.000013	mg/l	EPA 200.8
Zinc [a]		0.0047 J	0.010	0.0012	mg/l	EPA 200.8
Sulfate		5.2	2.0	0.60	mg/l	EPA 300/SW846 9056A
FA31827-3	**TRIP BLANK**					
Methyl Chloride		0.0010 JB	0.0020	0.00050	mg/l	SW846 8260B

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	WELL-1820 PINE		
Lab Sample ID:	FA31827-1	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0199432.D	1	03/02/16	MM	n/a	n/a	VA1882
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.0010	0.00030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	109%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

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

Report of Analysis

Client Sample ID:	WELL-1820 PINE		
Lab Sample ID:	FA31827-1	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0114163.D	1	03/07/16	EP	n/a	n/a	VC4545
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00042	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00024	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00046	mg/l	
78-93-3	2-Butanone (MEK)	ND	0.0050	0.0026	mg/l	
75-15-0	Carbon Disulfide	ND	0.0020	0.00023	mg/l	
56-23-5	Carbon Tetrachloride	ND	0.0010	0.00030	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00063	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00030	mg/l	
110-82-7	Cyclohexane	ND	0.0010	0.00026	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00026	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0050	0.00081	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0020	0.00033	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
95-50-1	1,2-Dichlorobenzene	ND	0.0010	0.00027	mg/l	
541-73-1	1,3-Dichlorobenzene	ND	0.0010	0.00024	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	0.0010	0.00039	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00028	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00022	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	0.00031	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00033	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00034	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00026	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00025	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00025	mg/l	
76-13-1	Freon 113	ND	0.0010	0.00032	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00033	mg/l	
79-20-9	Methyl Acetate	ND	0.020	0.0050	mg/l	

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

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

Report of Analysis

Client Sample ID:	WELL-1820 PINE		
Lab Sample ID:	FA31827-1	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
74-83-9	Methyl Bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl Chloride	ND	0.0020	0.00050	mg/l	
108-87-2	Methylcyclohexane	ND	0.0010	0.00023	mg/l	
75-09-2	Methylene Chloride	ND	0.0050	0.0020	mg/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0050	0.0014	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00024	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00030	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0020	0.00051	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0020	0.00050	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00037	mg/l	
79-01-6	Trichloroethylene	ND	0.0010	0.00027	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl Chloride	ND	0.0010	0.00031	mg/l	
	m,p-Xylene	ND	0.0020	0.00030	mg/l	
95-47-6	o-Xylene	ND	0.0010	0.00026	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	121% [a]		83-118%
17060-07-0	1,2-Dichloroethane-D4	118%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	94%		83-118%

(a) Outside control limits; however, sample is ND.

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

Report of Analysis

Client Sample ID:	WELL-1820 PINE		
Lab Sample ID:	FA31827-1	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0685833.D	1	03/10/16	NJ	03/05/16	OP59597	SL3797
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

ABN TCL (SOM01.1) List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.0095	0.0024	mg/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	0.0048	0.00071	mg/l	
95-57-8	2-Chlorophenol	ND	0.0048	0.00061	mg/l	
120-83-2	2,4-Dichlorophenol	ND	0.0048	0.00060	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0048	0.00066	mg/l	
51-28-5	2,4-Dinitrophenol	ND	0.024	0.0048	mg/l	
534-52-1	4,6-Dinitro-o-cresol	ND	0.0095	0.0019	mg/l	
95-48-7	2-Methylphenol	ND	0.0048	0.00055	mg/l	
	3&4-Methylphenol	ND	0.0048	0.0010	mg/l	
88-75-5	2-Nitrophenol	ND	0.0048	0.00059	mg/l	
100-02-7	4-Nitrophenol	ND	0.024	0.0048	mg/l	
87-86-5	Pentachlorophenol	ND	0.024	0.0048	mg/l	
108-95-2	Phenol	ND	0.0048	0.00048	mg/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0048	0.00086	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	0.0048	0.00095	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0048	0.00082	mg/l	
83-32-9	Acenaphthene	ND	0.0048	0.00053	mg/l	
208-96-8	Acenaphthylene	ND	0.0048	0.00055	mg/l	
98-86-2	Acetophenone	ND	0.0048	0.00068	mg/l	
120-12-7	Anthracene	ND	0.0048	0.00058	mg/l	
1912-24-9	Atrazine	ND	0.0048	0.00060	mg/l	
100-52-7	Benzaldehyde [a]	ND	0.024	0.0048	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0048	0.00048	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0048	0.00048	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0048	0.00051	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0048	0.00048	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0048	0.00060	mg/l	
92-52-4	1,1'-Biphenyl	ND	0.0048	0.00048	mg/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	0.0048	0.00048	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0048	0.00095	mg/l	
86-74-8	Carbazole	ND	0.0048	0.00054	mg/l	
106-47-8	4-Chloroaniline	ND	0.0048	0.00068	mg/l	

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

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

Report of Analysis

Client Sample ID:	WELL-1820 PINE		
Lab Sample ID:	FA31827-1	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

ABN TCL (SOM01.1) List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	0.0048	0.00065	mg/l	
111-44-4	bis(2-Chloroethyl)ether	ND	0.0048	0.00066	mg/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.0048	0.00065	mg/l	
91-58-7	2-Chloronaphthalene	ND	0.0048	0.00048	mg/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	0.0048	0.00055	mg/l	
218-01-9	Chrysene	ND	0.0048	0.00050	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0048	0.00072	mg/l	
132-64-9	Dibenzofuran	ND	0.0048	0.00064	mg/l	
91-94-1	3,3'-Dichlorobenzidine	ND	0.0048	0.00048	mg/l	
84-66-2	Diethyl Phthalate	ND	0.0048	0.00095	mg/l	
131-11-3	Dimethyl Phthalate	ND	0.0048	0.00095	mg/l	
84-74-2	Di-n-butyl Phthalate	ND	0.0048	0.00095	mg/l	
117-84-0	Di-n-octyl Phthalate	ND	0.0048	0.00095	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	0.0048	0.00060	mg/l	
606-20-2	2,6-Dinitrotoluene	ND	0.0048	0.00056	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0048	0.00095	mg/l	
206-44-0	Fluoranthene	ND	0.0048	0.00048	mg/l	
86-73-7	Fluorene	ND	0.0048	0.00062	mg/l	
118-74-1	Hexachlorobenzene	ND	0.0048	0.00052	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0048	0.00049	mg/l	
77-47-4	Hexachlorocyclopentadiene	ND	0.0048	0.00095	mg/l	
67-72-1	Hexachloroethane	ND	0.0048	0.00049	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0048	0.00048	mg/l	
78-59-1	Isophorone	ND	0.0048	0.00064	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0048	0.00053	mg/l	
91-20-3	Naphthalene	ND	0.0048	0.00048	mg/l	
88-74-4	2-Nitroaniline	ND	0.0048	0.00067	mg/l	
99-09-2	3-Nitroaniline	ND	0.0048	0.00071	mg/l	
100-01-6	4-Nitroaniline	ND	0.0048	0.00068	mg/l	
98-95-3	Nitrobenzene	ND	0.0048	0.00062	mg/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	0.0048	0.00055	mg/l	
86-30-6	N-Nitrosodiphenylamine	ND	0.0048	0.00066	mg/l	
85-01-8	Phenanthrene	ND	0.0048	0.00057	mg/l	
129-00-0	Pyrene	ND	0.0048	0.00053	mg/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.0048	0.00048	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		14-67%
4165-62-2	Phenol-d5	19%		10-50%

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

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

Report of Analysis

Client Sample ID:	WELL-1820 PINE		
Lab Sample ID:	FA31827-1	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

ABN TCL (SOM01.1) List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	62%		33-118%
4165-60-0	Nitrobenzene-d5	58%		42-108%
321-60-8	2-Fluorobiphenyl	59%		40-106%
1718-51-0	Terphenyl-d14	71%		39-121%

(a) Associated CCV outside control limits.

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

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

Report of Analysis

Client Sample ID:	WELL-1820 PINE		
Lab Sample ID:	FA31827-1	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
		Percent Solids:	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	ND	0.0020	0.00026	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Arsenic [a]	0.00036 J	0.0010	0.000034	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Beryllium [a]	ND	0.00050	0.000013	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Cadmium [a]	ND	0.00050	0.00012	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Chromium [a]	0.00010 J	0.0040	0.00010	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Copper [a]	0.0027 J	0.0040	0.00014	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Iron [a]	0.0167 J	0.050	0.0020	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Lead [a]	0.00025 J	0.00050	0.000011	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Manganese [a]	0.00012 J	0.0010	0.000095	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Mercury	ND	0.00050	0.000030	mg/l	1	03/09/16	03/09/16	JL	EPA 245.1 [1]	EPA 245.1 [3]
Nickel [a]	ND	0.0040	0.00011	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Selenium [a]	ND	0.0010	0.00012	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Silver [a]	ND	0.0020	0.000041	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Thallium [a]	0.000022 J	0.00050	0.000013	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]
Zinc [a]	0.0039 J	0.010	0.0012	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [4]

(1) Instrument QC Batch: MA13020
(2) Instrument QC Batch: N:MA38903
(3) Prep QC Batch: MP30081
(4) Prep QC Batch: N:MP92393

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	WELL-1820 PINE		
Lab Sample ID:	FA31827-1	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
		Percent Solids:	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	0.032 J	0.10	0.030	mg/l	1	03/10/16 19:28	JK	EPA 350.1
Nitrogen, Nitrate	ND	0.10	0.050	mg/l	1	03/02/16 20:44	DM	EPA 300/SW846 9056A
Sulfate	5.0	2.0	0.60	mg/l	1	03/02/16 20:44	DM	EPA 300/SW846 9056A

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	FA31827-2	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0199433.D	1	03/02/16	MM	n/a	n/a	VA1882
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.0010	0.00030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%		74-125%
2037-26-5	Toluene-D8	100%		88-111%

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

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	FA31827-2	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0114164.D	1	03/07/16	EP	n/a	n/a	VC4545
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00042	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00024	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00046	mg/l	
78-93-3	2-Butanone (MEK)	ND	0.0050	0.0026	mg/l	
75-15-0	Carbon Disulfide	ND	0.0020	0.00023	mg/l	
56-23-5	Carbon Tetrachloride	ND	0.0010	0.00030	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00063	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00030	mg/l	
110-82-7	Cyclohexane	ND	0.0010	0.00026	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00026	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0050	0.00081	mg/l	
106-93-4	1,2-Dibromoethane	ND	0.0020	0.00033	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
95-50-1	1,2-Dichlorobenzene	ND	0.0010	0.00027	mg/l	
541-73-1	1,3-Dichlorobenzene	ND	0.0010	0.00024	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	0.0010	0.00039	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00028	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00022	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	0.00031	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00033	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00034	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00026	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00025	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00025	mg/l	
76-13-1	Freon 113	ND	0.0010	0.00032	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00033	mg/l	
79-20-9	Methyl Acetate	ND	0.020	0.0050	mg/l	

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

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

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	FA31827-2	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
74-83-9	Methyl Bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl Chloride	ND	0.0020	0.00050	mg/l	
108-87-2	Methylcyclohexane	ND	0.0010	0.00023	mg/l	
75-09-2	Methylene Chloride	ND	0.0050	0.0020	mg/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0050	0.0014	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00024	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00030	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0020	0.00051	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0020	0.00050	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00037	mg/l	
79-01-6	Trichloroethylene	ND	0.0010	0.00027	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl Chloride	ND	0.0010	0.00031	mg/l	
	m,p-Xylene	ND	0.0020	0.00030	mg/l	
95-47-6	o-Xylene	ND	0.0010	0.00026	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		83-118%
17060-07-0	1,2-Dichloroethane-D4	116%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	96%		83-118%

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

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	FA31827-2	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L0685834.D	1	03/10/16	NJ	03/05/16	OP59597	SL3797
Run #2							

	Initial Volume	Final Volume
Run #1	990 ml	1.0 ml
Run #2		

ABN TCL (SOM01.1) List

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	0.010	0.0025	mg/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	0.0051	0.00075	mg/l	
95-57-8	2-Chlorophenol	ND	0.0051	0.00064	mg/l	
120-83-2	2,4-Dichlorophenol	ND	0.0051	0.00064	mg/l	
105-67-9	2,4-Dimethylphenol	ND	0.0051	0.00070	mg/l	
51-28-5	2,4-Dinitrophenol	ND	0.025	0.0051	mg/l	
534-52-1	4,6-Dinitro-o-cresol	ND	0.010	0.0020	mg/l	
95-48-7	2-Methylphenol	ND	0.0051	0.00059	mg/l	
	3&4-Methylphenol	ND	0.0051	0.0011	mg/l	
88-75-5	2-Nitrophenol	ND	0.0051	0.00062	mg/l	
100-02-7	4-Nitrophenol	ND	0.025	0.0051	mg/l	
87-86-5	Pentachlorophenol	ND	0.025	0.0051	mg/l	
108-95-2	Phenol	ND	0.0051	0.00051	mg/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	0.0051	0.00092	mg/l	
95-95-4	2,4,5-Trichlorophenol	ND	0.0051	0.0010	mg/l	
88-06-2	2,4,6-Trichlorophenol	ND	0.0051	0.00087	mg/l	
83-32-9	Acenaphthene	ND	0.0051	0.00057	mg/l	
208-96-8	Acenaphthylene	ND	0.0051	0.00058	mg/l	
98-86-2	Acetophenone	ND	0.0051	0.00072	mg/l	
120-12-7	Anthracene	ND	0.0051	0.00062	mg/l	
1912-24-9	Atrazine	ND	0.0051	0.00064	mg/l	
100-52-7	Benzaldehyde [a]	ND	0.025	0.0051	mg/l	
56-55-3	Benzo(a)anthracene	ND	0.0051	0.00051	mg/l	
50-32-8	Benzo(a)pyrene	ND	0.0051	0.00051	mg/l	
205-99-2	Benzo(b)fluoranthene	ND	0.0051	0.00054	mg/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.0051	0.00051	mg/l	
207-08-9	Benzo(k)fluoranthene	ND	0.0051	0.00064	mg/l	
92-52-4	1,1'-Biphenyl	ND	0.0051	0.00051	mg/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	0.0051	0.00051	mg/l	
85-68-7	Butyl Benzyl Phthalate	ND	0.0051	0.0010	mg/l	
86-74-8	Carbazole	ND	0.0051	0.00057	mg/l	
106-47-8	4-Chloroaniline	ND	0.0051	0.00072	mg/l	

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

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

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	FA31827-2	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

ABN TCL (SOM01.1) List

CAS No.	Compound	Result	RL	MDL	Units	Q
111-91-1	bis(2-Chloroethoxy)methane	ND	0.0051	0.00068	mg/l	
111-44-4	bis(2-Chloroethyl)ether	ND	0.0051	0.00070	mg/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.0051	0.00069	mg/l	
91-58-7	2-Chloronaphthalene	ND	0.0051	0.00051	mg/l	
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	0.0051	0.00058	mg/l	
218-01-9	Chrysene	ND	0.0051	0.00053	mg/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.0051	0.00077	mg/l	
132-64-9	Dibenzofuran	ND	0.0051	0.00068	mg/l	
91-94-1	3,3'-Dichlorobenzidine	ND	0.0051	0.00051	mg/l	
84-66-2	Diethyl Phthalate	ND	0.0051	0.0010	mg/l	
131-11-3	Dimethyl Phthalate	ND	0.0051	0.0010	mg/l	
84-74-2	Di-n-butyl Phthalate	ND	0.0051	0.0010	mg/l	
117-84-0	Di-n-octyl Phthalate	ND	0.0051	0.0010	mg/l	
121-14-2	2,4-Dinitrotoluene	ND	0.0051	0.00064	mg/l	
606-20-2	2,6-Dinitrotoluene	ND	0.0051	0.00059	mg/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.0051	0.0010	mg/l	
206-44-0	Fluoranthene	ND	0.0051	0.00051	mg/l	
86-73-7	Fluorene	ND	0.0051	0.00066	mg/l	
118-74-1	Hexachlorobenzene	ND	0.0051	0.00055	mg/l	
87-68-3	Hexachlorobutadiene	ND	0.0051	0.00052	mg/l	
77-47-4	Hexachlorocyclopentadiene	ND	0.0051	0.0010	mg/l	
67-72-1	Hexachloroethane	ND	0.0051	0.00052	mg/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.0051	0.00051	mg/l	
78-59-1	Isophorone	ND	0.0051	0.00068	mg/l	
91-57-6	2-Methylnaphthalene	ND	0.0051	0.00056	mg/l	
91-20-3	Naphthalene	ND	0.0051	0.00051	mg/l	
88-74-4	2-Nitroaniline	ND	0.0051	0.00071	mg/l	
99-09-2	3-Nitroaniline	ND	0.0051	0.00076	mg/l	
100-01-6	4-Nitroaniline	ND	0.0051	0.00072	mg/l	
98-95-3	Nitrobenzene	ND	0.0051	0.00066	mg/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	0.0051	0.00059	mg/l	
86-30-6	N-Nitrosodiphenylamine	ND	0.0051	0.00070	mg/l	
85-01-8	Phenanthrene	ND	0.0051	0.00060	mg/l	
129-00-0	Pyrene	ND	0.0051	0.00056	mg/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	0.0051	0.00051	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	30%		14-67%
4165-62-2	Phenol-d5	21%		10-50%

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

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

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	FA31827-2	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

ABN TCL (SOM01.1) List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	67%		33-118%
4165-60-0	Nitrobenzene-d5	62%		42-108%
321-60-8	2-Fluorobiphenyl	62%		40-106%
1718-51-0	Terphenyl-d14	75%		39-121%

(a) Associated CCV outside control limits.

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

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

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	FA31827-2	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
		Percent Solids:	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony [a]	ND	0.0020	0.00026	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Arsenic [a]	0.00033 J	0.0010	0.000034	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Beryllium [a]	ND	0.00050	0.000013	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Cadmium [a]	ND	0.00050	0.00012	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Chromium [a]	ND	0.0040	0.00010	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Copper [a]	0.0029 J	0.0040	0.00014	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Iron [a]	0.0145 J	0.050	0.0020	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Lead [a]	0.00025 J	0.00050	0.000011	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Manganese [a]	ND	0.0010	0.000095	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Mercury	ND	0.00050	0.000030	mg/l	1	03/09/16	03/09/16	JL	EPA 245.1 [1]	EPA 245.1 [4]
Nickel [a]	ND	0.0040	0.00011	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Selenium [a]	ND	0.0010	0.00012	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Silver [a]	ND	0.0020	0.000041	mg/l	1	03/10/16	03/12/16	ANJ	EPA 200.8 [3]	EPA 200.8 [5]
Thallium [a]	0.000020 J	0.00050	0.000013	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]
Zinc [a]	0.0047 J	0.010	0.0012	mg/l	1	03/10/16	03/11/16	ANJ	EPA 200.8 [2]	EPA 200.8 [5]

(1) Instrument QC Batch: MA13020
(2) Instrument QC Batch: N:MA38903
(3) Instrument QC Batch: N:MA38907
(4) Prep QC Batch: MP30081
(5) Prep QC Batch: N:MP92393

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	DUP-2		
Lab Sample ID:	FA31827-2	**Date Sampled:**	03/01/16
Matrix:	AQ - Water	**Date Received:**	03/02/16
		Percent Solids:	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Nitrogen, Ammonia	ND	0.10	0.030	mg/l	1	03/10/16 19:29	JK	EPA 350.1
Nitrogen, Nitrate	ND	0.10	0.050	mg/l	1	03/02/16 21:01	DM	EPA 300/SW846 9056A
Sulfate	5.2	2.0	0.60	mg/l	1	03/02/16 21:01	DM	EPA 300/SW846 9056A

RL = Reporting Limit
MDL = Method Detection Limit
ND = Not detected
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA31827-3	**Date Sampled:**	03/01/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/02/16
Method:	SW846 8260B BY SIM	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	A0199434.D	1	03/02/16	MM	n/a	n/a	VA1882
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	0.0010	0.00030	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	111%		74-125%
2037-26-5	Toluene-D8	99%		88-111%

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA31827-3	**Date Sampled:**	03/01/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/02/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0114194.D	1	03/08/16	EP	n/a	n/a	VC4546
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	0.025	0.010	mg/l	
71-43-2	Benzene	ND	0.0010	0.00020	mg/l	
74-97-5	Bromochloromethane	ND	0.0010	0.00042	mg/l	
75-27-4	Bromodichloromethane	ND	0.0010	0.00024	mg/l	
75-25-2	Bromoform	ND	0.0010	0.00046	mg/l	
78-93-3	2-Butanone (MEK)	ND	0.0050	0.0026	mg/l	
75-15-0	Carbon Disulfide	ND	0.0020	0.00023	mg/l	
56-23-5	Carbon Tetrachloride	ND	0.0010	0.00030	mg/l	
108-90-7	Chlorobenzene	ND	0.0010	0.00020	mg/l	
75-00-3	Chloroethane	ND	0.0020	0.00063	mg/l	
67-66-3	Chloroform	ND	0.0010	0.00030	mg/l	
110-82-7	Cyclohexane	ND	0.0010	0.00026	mg/l	
124-48-1	Dibromochloromethane	ND	0.0010	0.00026	mg/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0050	0.00081	mg/l	
106-93-4	1,2-Dibromoethane [a]	ND	0.0020	0.00033	mg/l	
75-71-8	Dichlorodifluoromethane	ND	0.0020	0.00050	mg/l	
95-50-1	1,2-Dichlorobenzene	ND	0.0010	0.00027	mg/l	
541-73-1	1,3-Dichlorobenzene	ND	0.0010	0.00024	mg/l	
106-46-7	1,4-Dichlorobenzene	ND	0.0010	0.00039	mg/l	
75-34-3	1,1-Dichloroethane	ND	0.0010	0.00026	mg/l	
107-06-2	1,2-Dichloroethane	ND	0.0010	0.00028	mg/l	
75-35-4	1,1-Dichloroethylene	ND	0.0010	0.00022	mg/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.0010	0.00031	mg/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.0010	0.00033	mg/l	
78-87-5	1,2-Dichloropropane	ND	0.0010	0.00034	mg/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0010	0.00026	mg/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0010	0.00025	mg/l	
100-41-4	Ethylbenzene	ND	0.0010	0.00025	mg/l	
76-13-1	Freon 113	ND	0.0010	0.00032	mg/l	
591-78-6	2-Hexanone	ND	0.010	0.0020	mg/l	
98-82-8	Isopropylbenzene	ND	0.0010	0.00033	mg/l	
79-20-9	Methyl Acetate	ND	0.020	0.0050	mg/l	

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

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

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	FA31827-3	**Date Sampled:**	03/01/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	03/02/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Pine Level Dump; Rains Crossroads Rd, Selma, NC		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
74-83-9	Methyl Bromide	ND	0.0020	0.00050	mg/l	
74-87-3	Methyl Chloride	0.0010	0.0020	0.00050	mg/l	JB
108-87-2	Methylcyclohexane	ND	0.0010	0.00023	mg/l	
75-09-2	Methylene Chloride	ND	0.0050	0.0020	mg/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0050	0.0014	mg/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0010	0.00020	mg/l	
100-42-5	Styrene	ND	0.0010	0.00024	mg/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0010	0.00033	mg/l	
127-18-4	Tetrachloroethylene	ND	0.0010	0.00030	mg/l	
108-88-3	Toluene	ND	0.0010	0.00020	mg/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0020	0.00051	mg/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0020	0.00050	mg/l	
71-55-6	1,1,1-Trichloroethane	ND	0.0010	0.00020	mg/l	
79-00-5	1,1,2-Trichloroethane	ND	0.0010	0.00037	mg/l	
79-01-6	Trichloroethylene	ND	0.0010	0.00027	mg/l	
75-69-4	Trichlorofluoromethane	ND	0.0020	0.00050	mg/l	
75-01-4	Vinyl Chloride	ND	0.0010	0.00031	mg/l	
	m,p-Xylene	ND	0.0020	0.00030	mg/l	
95-47-6	o-Xylene	ND	0.0010	0.00026	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated BS recovery outside control limits.

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody
- Analyst Legend

Parameter Certification Exceptions

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Freon 113	76-13-1	SW846 8260B	AQ	Certified by SOP MS005

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST LABORATORIES

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # FA31827 PAGE 1 OF 1

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: LRS Corporation
Address: 1600 Perimeter Park Drive
City: Morrisville State: NC Zip: 27560
Project Contact: Carlin Slusher E-mail: carlin.slusher@arcum.com
Phone#
Sampler(s) Name(s) (Printed): J. Abbasi / A. Bock

Project Information

Project Name: Pine Level Dump
Street: Rains Crossroads Road
City: Selma State: NC
Project #: 10048357
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	VOCs (8260B)	1,4-Dioxane (8260B-SIM)	Metals (200.8+245.1)	Nitrate + Sulfate (300)	Ammonia (350.1)	SVOCs (8270D)
1	Well-182D Pine	3/1/16	13:50	JA	DW	11		X	X		X	X				X	X	X	X	X	X
2	Dup-2	3/1/16	14:00	JA	DW	11		X	X		X	X				X	X	X	X	X	X
3	Trip Blank	—	—	—	—	6			X							X	X				

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

LAB USE ONLY

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- [x] 10 Days Standard
- [ ] 7 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY
- [ ] OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- [ ] COMMERCIAL "A" (RESULTS ONLY)
- [ ] COMMERCIAL "B" (RESULTS PLUS QC)
- [ ] REDT1 (EPA LEVEL 3)
- [ ] FULT1 (EPA LEVEL 4)
- [ ] EDD'S

Comments / Remarks

Accutest Laboratories
Raleigh, North Carolina
Service Center

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 A Bock	3/1/16 16:02	2	3 3-1-16	17:01	4 Fed Ex
Relinquished by: 5 Fx	Date Time:	Received By: 6 3/2/16 9:15	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 1 Cooler Temperature (s) Celsius: 2-6

FA31827: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA31827 CLIENT: URS Corp. PROJECT: Pine Level Dump

DATE/TIME RECEIVED: 3/2/16 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: [✓] FEDEX UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 7757 6766 6774

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.6 (USED FOR LIMS)

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

TEST STRIP LOT#s pH 0-3 204413A pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS: only 3 vials for Trip blank

TECHNICIAN SIGNATURE/DATE 3/2/16 REVIEWER SIGNATURE/DATE 3/2/16

NF 11/15 receipt confirmation 111015.xls

5.2 5

https://

ORIGIN ID:RZZA (919) 208-7171
TERRI RIVENBARK
ACCUTEST LABS SOUTHEAST
6308 - C ANGUS DRIVE

RALEIGH, NC 27617
UNITED STATES US

SHIP DATE: 01MAR16
ACTWGT: 50.00 LB
CAD: 9855222/INET3730

BILL SENDER

TO SAMPLE RECEIVING
ACCUTEST SE
4405 VINELAND RD.
STE. C15
ORLANDO FL 32811
(407) 425-6700
INV
PO REF
DEPT

5401/KCF34/F27F

FedEx Express

1 of 7

TRK# 0201 7757 6766 6474

MASTER

XH TIXA

WED - 02 MAR 10:30A
PRIORITY OVERNIGHT

32811
FL-US MCO

FA31827: Chain of Custody
Page 3 of 3

Analyst Legend

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Initials	Full Name	Analysis Type
EP	Eric Parrish	GC/MS Volatiles
MM	Melissa Mangual	GC/MS Volatiles
NJ	Naresh Jiawan	GC/MS Semi-volatiles
JL	James Laureano	Metals Analysis
DM	Douglas Martin	General Chemistry
JK	Jenna Kravitz	General Chemistry

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA1882-MB	A0199421.D	1	03/02/16	MM	n/a	n/a	VA1882

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

FA31827-1, FA31827-2, FA31827-3

CAS No.	Compound	Result	RL	MDL	Units	Q
123-91-1	1,4-Dioxane	ND	1.0	0.30	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	108%	74-125%
2037-26-5	Toluene-D8	99%	88-111%

Method Blank Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4545-MB	C0114147.D	1	03/07/16	EP	n/a	n/a	VC4545

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

FA31827-1, FA31827-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	

Method Blank Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4545-MB	C0114147.D	1	03/07/16	EP	n/a	n/a	VC4545

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

FA31827-1, FA31827-2

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

Method Blank Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4546-MB	C0114188.D	1	03/08/16	EP	n/a	n/a	VC4546

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

FA31827-3

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	0.71	2.0	0.23	ug/l	J
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	1.1	2.0	0.50	ug/l	J
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	

Method Blank Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4546-MB	C0114188.D	1	03/08/16	EP	n/a	n/a	VC4546

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

FA31827-3

CAS No.	Compound	Result	RL	MDL	Units	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	111%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	108%	83-118%

Blank Spike Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VA1882-BS	A0199420.D	1	03/02/16	MM	n/a	n/a	VA1882

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

FA31827-1, FA31827-2, FA31827-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
123-91-1	1,4-Dioxane	20	21.4	107	65-121

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	107%	74-125%
2037-26-5	Toluene-D8	100%	88-111%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4545-BS	C0114146.D	1	03/07/16	EP	n/a	n/a	VC4545

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

FA31827-1, FA31827-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	141	113	50-147
71-43-2	Benzene	25	24.6	98	81-122
74-97-5	Bromochloromethane	25	24.8	99	76-123
75-27-4	Bromodichloromethane	25	24.5	98	79-123
75-25-2	Bromoform	25	21.2	85	66-123
78-93-3	2-Butanone (MEK)	125	129	103	56-143
75-15-0	Carbon Disulfide	25	25.0	100	66-148
56-23-5	Carbon Tetrachloride	25	25.0	100	76-136
108-90-7	Chlorobenzene	25	25.1	100	82-124
75-00-3	Chloroethane	25	24.8	99	62-144
67-66-3	Chloroform	25	25.0	100	80-124
110-82-7	Cyclohexane	25	24.0	96	73-138
124-48-1	Dibromochloromethane	25	24.8	99	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	25.7	103	64-123
106-93-4	1,2-Dibromoethane	25	25.8	103	75-120
75-71-8	Dichlorodifluoromethane	25	21.3	85	42-167
95-50-1	1,2-Dichlorobenzene	25	24.7	99	82-124
541-73-1	1,3-Dichlorobenzene	25	25.3	101	84-125
106-46-7	1,4-Dichlorobenzene	25	24.5	98	78-120
75-34-3	1,1-Dichloroethane	25	26.9	108	81-122
107-06-2	1,2-Dichloroethane	25	25.0	100	75-125
75-35-4	1,1-Dichloroethylene	25	26.0	104	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.9	96	78-120
156-60-5	trans-1,2-Dichloroethylene	25	27.3	109	76-127
78-87-5	1,2-Dichloropropane	25	25.8	103	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.1	96	75-118
10061-02-6	trans-1,3-Dichloropropene	25	28.5	114	80-120
100-41-4	Ethylbenzene	25	25.5	102	81-121
76-13-1	Freon 113	25	22.6	90	72-134
591-78-6	2-Hexanone	125	144	115	61-129
98-82-8	Isopropylbenzene	25	23.8	95	83-132
79-20-9	Methyl Acetate	125	136	109	65-126
74-83-9	Methyl Bromide	25	24.0	96	59-143
74-87-3	Methyl Chloride	25	26.8	107	50-159
108-87-2	Methylcyclohexane	25	24.8	99	76-129
75-09-2	Methylene Chloride	25	25.7	103	69-135

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4545-BS	C0114146.D	1	03/07/16	EP	n/a	n/a	VC4545

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

FA31827-1, FA31827-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone (MIBK)	125	130	104	66-122
1634-04-4	Methyl Tert Butyl Ether	25	24.7	99	72-117
100-42-5	Styrene	25	24.3	97	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	25.4	102	72-120
127-18-4	Tetrachloroethylene	25	21.3	85	76-135
108-88-3	Toluene	25	23.6	94	80-120
87-61-6	1,2,3-Trichlorobenzene	25	24.9	100	68-131
120-82-1	1,2,4-Trichlorobenzene	25	23.7	95	73-129
71-55-6	1,1,1-Trichloroethane	25	24.9	100	75-130
79-00-5	1,1,2-Trichloroethane	25	26.1	104	76-119
79-01-6	Trichloroethylene	25	24.2	97	81-126
75-69-4	Trichlorofluoromethane	25	25.4	102	71-156
75-01-4	Vinyl Chloride	25	26.6	106	69-159
	m,p-Xylene	50	46.8	94	79-126
95-47-6	o-Xylene	25	24.4	98	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	94%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4546-BS	C0114187.D	1	03/08/16	EP	n/a	n/a	VC4546

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

FA31827-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	145	116	50-147
71-43-2	Benzene	25	27.8	111	81-122
74-97-5	Bromochloromethane	25	27.2	109	76-123
75-27-4	Bromodichloromethane	25	28.2	113	79-123
75-25-2	Bromoform	25	27.4	110	66-123
78-93-3	2-Butanone (MEK)	125	132	106	56-143
75-15-0	Carbon Disulfide	25	26.6	106	66-148
56-23-5	Carbon Tetrachloride	25	28.0	112	76-136
108-90-7	Chlorobenzene	25	28.2	113	82-124
75-00-3	Chloroethane	25	27.3	109	62-144
67-66-3	Chloroform	25	27.2	109	80-124
110-82-7	Cyclohexane	25	28.0	112	73-138
124-48-1	Dibromochloromethane	25	26.1	104	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	25.6	102	64-123
106-93-4	1,2-Dibromoethane	25	30.6	122*	75-120
75-71-8	Dichlorodifluoromethane	25	24.9	100	42-167
95-50-1	1,2-Dichlorobenzene	25	28.7	115	82-124
541-73-1	1,3-Dichlorobenzene	25	29.5	118	84-125
106-46-7	1,4-Dichlorobenzene	25	28.2	113	78-120
75-34-3	1,1-Dichloroethane	25	27.2	109	81-122
107-06-2	1,2-Dichloroethane	25	26.4	106	75-125
75-35-4	1,1-Dichloroethylene	25	28.0	112	78-137
156-59-2	cis-1,2-Dichloroethylene	25	26.9	108	78-120
156-60-5	trans-1,2-Dichloroethylene	25	28.0	112	76-127
78-87-5	1,2-Dichloropropane	25	27.8	111	76-124
10061-01-5	cis-1,3-Dichloropropene	25	27.5	110	75-118
10061-02-6	trans-1,3-Dichloropropene	25	29.5	118	80-120
100-41-4	Ethylbenzene	25	28.6	114	81-121
76-13-1	Freon 113	25	25.8	103	72-134
591-78-6	2-Hexanone	125	155	124	61-129
98-82-8	Isopropylbenzene	25	27.6	110	83-132
79-20-9	Methyl Acetate	125	142	114	65-126
74-83-9	Methyl Bromide	25	27.7	111	59-143
74-87-3	Methyl Chloride	25	29.1	116	50-159
108-87-2	Methylcyclohexane	25	30.5	122	76-129
75-09-2	Methylene Chloride	25	26.8	107	69-135

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4546-BS	C0114187.D	1	03/08/16	EP	n/a	n/a	VC4546

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

FA31827-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-10-1	4-Methyl-2-pentanone (MIBK)	125	143	114	66-122
1634-04-4	Methyl Tert Butyl Ether	25	28.3	113	72-117
100-42-5	Styrene	25	28.7	115	78-119
79-34-5	1,1,2,2-Tetrachloroethane	25	27.7	111	72-120
127-18-4	Tetrachloroethylene	25	27.1	108	76-135
108-88-3	Toluene	25	28.1	112	80-120
87-61-6	1,2,3-Trichlorobenzene	25	28.3	113	68-131
120-82-1	1,2,4-Trichlorobenzene	25	26.5	106	73-129
71-55-6	1,1,1-Trichloroethane	25	26.6	106	75-130
79-00-5	1,1,2-Trichloroethane	25	28.1	112	76-119
79-01-6	Trichloroethylene	25	28.0	112	81-126
75-69-4	Trichlorofluoromethane	25	27.9	112	71-156
75-01-4	Vinyl Chloride	25	29.3	117	69-159
	m,p-Xylene	50	61.4	123	79-126
95-47-6	o-Xylene	25	28.3	113	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	95%	79-125%
2037-26-5	Toluene-D8	97%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA31768-18MS	A0199425.D	1	03/02/16	MM	n/a	n/a	VA1882
FA31768-18MSD	A0199426.D	1	03/02/16	MM	n/a	n/a	VA1882
FA31768-18	A0199422.D	1	03/02/16	MM	n/a	n/a	VA1882

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

FA31827-1, FA31827-2, FA31827-3

CAS No.	Compound	FA31768-18 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
123-91-1	1,4-Dioxane	1.0	U	20	23.9	120	20	24.8	124*	4	65-121/27

CAS No.	Surrogate Recoveries	MS	MSD	FA31768-18	Limits
17060-07-0	1,2-Dichloroethane-D4	109%	109%	108%	74-125%
2037-26-5	Toluene-D8	99%	99%	99%	88-111%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA31886-19MS	C0114168.D	1	03/07/16	EP	n/a	n/a	VC4545
FA31886-19MSD	C0114169.D	1	03/07/16	EP	n/a	n/a	VC4545
FA31886-19 [a]	C0114148.D	1	03/07/16	EP	n/a	n/a	VC4545

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

FA31827-1, FA31827-2

CAS No.	Compound	FA31886-19 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	25 U		125	127	102	125	107	86	17	50-147/21
71-43-2	Benzene	0.52	J	25	26.6	104	25	26.7	105	0	81-122/14
74-97-5	Bromochloromethane	1.0 U		25	27.3	109	25	27.3	109	0	76-123/14
75-27-4	Bromodichloromethane	1.0 U		25	25.1	100	25	24.4	98	3	79-123/19
75-25-2	Bromoform	1.0 U		25	18.5	74	25	19.2	77	4	66-123/21
78-93-3	2-Butanone (MEK)	5.0 U		125	124	99	125	110	88	12	56-143/18
75-15-0	Carbon Disulfide	2.0 U		25	26.6	106	25	27.3	109	3	66-148/23
56-23-5	Carbon Tetrachloride	1.0 U		25	27.6	110	25	26.8	107	3	76-136/23
108-90-7	Chlorobenzene	1.0 U		25	25.7	103	25	24.5	98	5	82-124/14
75-00-3	Chloroethane	2.0 U		25	27.3	109	25	28.3	113	4	62-144/20
67-66-3	Chloroform	1.0 U		25	27.3	109	25	26.7	107	2	80-124/15
110-82-7	Cyclohexane	1.0 U		25	24.7	99	25	24.4	98	1	73-138/18
124-48-1	Dibromochloromethane	1.0 U		25	22.3	89	25	22.2	89	0	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U		25	16.8	67	25	22.4	90	29*	64-123/18
106-93-4	1,2-Dibromoethane	2.0 U		25	21.2	85	25	20.9	84	1	75-120/13
75-71-8	Dichlorodifluoromethane	2.0 U		25	24.9	100	25	22.6	90	10	42-167/19
95-50-1	1,2-Dichlorobenzene	1.0 U		25	24.2	97	25	24.4	98	1	82-124/14
541-73-1	1,3-Dichlorobenzene	1.0 U		25	24.8	99	25	24.3	97	2	84-125/14
106-46-7	1,4-Dichlorobenzene	1.0 U		25	25.0	100	25	24.5	98	2	78-120/15
75-34-3	1,1-Dichloroethane	1.4		25	29.3	112	25	29.3	112	0	81-122/15
107-06-2	1,2-Dichloroethane	0.74	J	25	26.8	104	25	25.8	100	4	75-125/14
75-35-4	1,1-Dichloroethylene	1.0 U		25	27.9	112	25	27.2	109	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	6.7		25	30.2	94	25	31.1	98	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	0.52	J	25	27.5	108	25	28.3	111	3	76-127/17
78-87-5	1,2-Dichloropropane	1.0 U		25	23.7	95	25	24.0	96	1	76-124/14
10061-01-5	cis-1,3-Dichloropropene	1.0 U		25	20.1	80	25	20.5	82	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	1.0 U		25	21.6	86	25	20.1	80	7	80-120/22
100-41-4	Ethylbenzene	1.0 U		25	26.0	104	25	25.2	101	3	81-121/14
76-13-1	Freon 113	1.0 U		25	28.2	113	25	25.6	102	10	72-134/20
591-78-6	2-Hexanone	10 U		125	114	91	125	111	89	3	61-129/18
98-82-8	Isopropylbenzene	1.0 U		25	24.8	99	25	23.9	96	4	83-132/15
79-20-9	Methyl Acetate	20 U		125	166	133*	125	138	110	18	65-126/18
74-83-9	Methyl Bromide	2.0 U		25	24.0	96	25	24.1	96	0	59-143/19
74-87-3	Methyl Chloride	2.0 U		25	25.5	102	25	26.8	107	5	50-159/19
108-87-2	Methylcyclohexane	1.0 U		25	23.7	95	25	21.1	84	12	76-129/17
75-09-2	Methylene Chloride	5.0 U		25	26.5	106	25	27.5	110	4	69-135/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA31886-19MS	C0114168.D	1	03/07/16	EP	n/a	n/a	VC4545
FA31886-19MSD	C0114169.D	1	03/07/16	EP	n/a	n/a	VC4545
FA31886-19 [a]	C0114148.D	1	03/07/16	EP	n/a	n/a	VC4545

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

FA31827-1, FA31827-2

CAS No.	Compound	FA31886-19 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U		125	147	118	125	141	113	4	66-122/16
1634-04-4	Methyl Tert Butyl Ether	1.0 U		25	25.1	100	25	27.1	108	8	72-117/14
100-42-5	Styrene	1.0 U		25	23.4	94	25	21.9	88	7	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U		25	23.5	94	25	24.8	99	5	72-120/14
127-18-4	Tetrachloroethylene	1.0 U		25	24.9	100	25	23.5	94	6	76-135/16
108-88-3	Toluene	1.0 U		25	25.5	102	25	24.8	99	3	80-120/14
87-61-6	1,2,3-Trichlorobenzene	2.0 U		25	6.3	25*	25	14.1	56*	76*	68-131/25
120-82-1	1,2,4-Trichlorobenzene	2.0 U		25	8.8	35*	25	15.4	62*	55*	73-129/20
71-55-6	1,1,1-Trichloroethane	0.39	J	25	29.1	115	25	28.2	111	3	75-130/16
79-00-5	1,1,2-Trichloroethane	1.0 U		25	26.9	108	25	24.6	98	9	76-119/14
79-01-6	Trichloroethylene	28.8		25	51.9	92	25	49.6	83	5	81-126/15
75-69-4	Trichlorofluoromethane	2.7		25	32.0	117	25	29.8	108	7	71-156/21
75-01-4	Vinyl Chloride	1.0 U		25	25.8	103	25	27.7	111	7	69-159/18
	m,p-Xylene	2.0 U		50	47.7	95	50	45.8	92	4	79-126/15
95-47-6	o-Xylene	1.0 U		25	24.0	96	25	24.1	96	0	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA31886-19	Limits
1868-53-7	Dibromofluoromethane	107%	108%	111%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	105%	109%	79-125%
2037-26-5	Toluene-D8	98%	98%	104%	85-112%
460-00-4	4-Bromofluorobenzene	87%	90%	92%	83-118%

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA31814-5MS	C0114198.D	5	03/08/16	EP	n/a	n/a	VC4546
FA31814-5MSD	C0114199.D	5	03/08/16	EP	n/a	n/a	VC4546
FA31814-5	C0114191.D	1	03/08/16	EP	n/a	n/a	VC4546
FA31814-5A	C0114192.D	5	03/08/16	EP	n/a	n/a	VC4546

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

FA31827-3

CAS No.	Compound	FA31814-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		625	688	110	625	686	110	0	50-147/21
71-43-2	Benzene	ND		125	126	101	125	125	100	1	81-122/14
74-97-5	Bromochloromethane	ND		125	140	112	125	126	101	11	76-123/14
75-27-4	Bromodichloromethane	ND		125	127	102	125	128	102	1	79-123/19
75-25-2	Bromoform	ND		125	113	90	125	110	88	3	66-123/21
78-93-3	2-Butanone (MEK)	ND		625	659	105	625	645	103	2	56-143/18
75-15-0	Carbon Disulfide	ND		125	127	102	125	122	98	4	66-148/23
56-23-5	Carbon Tetrachloride	ND		125	145	116	125	133	106	9	76-136/23
108-90-7	Chlorobenzene	ND		125	131	105	125	121	97	8	82-124/14
75-00-3	Chloroethane	ND		125	122	98	125	122	98	0	62-144/20
67-66-3	Chloroform	ND		125	133	106	125	124	99	7	80-124/15
110-82-7	Cyclohexane	ND		125	131	105	125	125	100	5	73-138/18
124-48-1	Dibromochloromethane	ND		125	114	91	125	111	89	3	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		125	118	94	125	107	86	10	64-123/18
106-93-4	1,2-Dibromoethane	ND		125	112	90	125	123	98	9	75-120/13
75-71-8	Dichlorodifluoromethane	ND		125	107	86	125	99.9	80	7	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		125	135	108	125	127	102	6	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		125	133	106	125	129	103	3	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		125	129	103	125	125	100	3	78-120/15
75-34-3	1,1-Dichloroethane	ND		125	129	103	125	124	99	4	81-122/15
107-06-2	1,2-Dichloroethane	ND		125	131	105	125	123	98	6	75-125/14
75-35-4	1,1-Dichloroethylene	17.8		125	141	99	125	137	95	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	4.1		125	130	101	125	128	99	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		125	124	99	125	117	94	6	76-127/17
78-87-5	1,2-Dichloropropane	ND		125	119	95	125	133	106	11	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		125	96.9	78	125	107	86	10	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		125	103	82	125	109	87	6	80-120/22
100-41-4	Ethylbenzene	ND		125	133	106	125	124	99	7	81-121/14
76-13-1	Freon 113	ND		125	143	114	125	131	105	9	72-134/20
591-78-6	2-Hexanone	ND		625	587	94	625	710	114	19*	61-129/18
98-82-8	Isopropylbenzene	ND		125	127	102	125	116	93	9	83-132/15
79-20-9	Methyl Acetate	ND		625	690	110	625	693	111	0	65-126/18
74-83-9	Methyl Bromide	ND		125	116	93	125	121	97	4	59-143/19
74-87-3	Methyl Chloride	0.95	JB	125	120	95	125	124	98	3	50-159/19
108-87-2	Methylcyclohexane	ND		125	136	109	125	128	102	6	76-129/17
75-09-2	Methylene Chloride	ND		125	125	100	125	120	96	4	69-135/16

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA31814-5MS	C0114198.D	5	03/08/16	EP	n/a	n/a	VC4546
FA31814-5MSD	C0114199.D	5	03/08/16	EP	n/a	n/a	VC4546
FA31814-5	C0114191.D	1	03/08/16	EP	n/a	n/a	VC4546
FA31814-5A	C0114192.D	5	03/08/16	EP	n/a	n/a	VC4546

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

FA31827-3

CAS No.	Compound	FA31814-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		625	735	118	625	677	108	8	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		125	128	102	125	128	102	0	72-117/14
100-42-5	Styrene	ND		125	118	94	125	120	96	2	78-119/23
79-34-5	1,1,2,2-Tetrachloroethane	ND		125	129	103	125	123	98	5	72-120/14
127-18-4	Tetrachloroethylene	291	E	125	363	94	125	326	65*	11	76-135/16
108-88-3	Toluene	ND		125	130	104	125	119	95	9	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		125	141	113	125	125	100	12	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		125	125	100	125	114	91	9	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		125	136	109	125	125	100	8	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		125	129	103	125	122	98	6	76-119/14
79-01-6	Trichloroethylene	14.1		125	141	102	125	132	94	7	81-126/15
75-69-4	Trichlorofluoromethane	ND		125	134	107	125	121	97	10	71-156/21
75-01-4	Vinyl Chloride	ND		125	115	92	125	123	98	7	69-159/18
	m,p-Xylene	ND		250	281	112	250	264	106	6	79-126/15
95-47-6	o-Xylene	ND		125	123	98	125	114	91	8	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA31814-5	FA31814-5A	Limits
1868-53-7	Dibromofluoromethane	106%	102%	108%	113%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	98%	106%	110%	79-125%
2037-26-5	Toluene-D8	95%	91%	101%	93%	85-112%
460-00-4	4-Bromofluorobenzene	90%	102%	98%	107%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: VA1879-BFB
Lab File ID: A0199334.D
Instrument ID: GCMSA
Injection Date: 02/24/16
Injection Time: 11:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	989320	33.6		Pass
75	30.0 - 60.0% of mass 95	1624436	55.1		Pass
95	Base peak, 100% relative abundance	2947187	100.0		Pass
96	5.0 - 9.0% of mass 95	195608	6.64		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	2719741	92.3		Pass
175	5.0 - 9.0% of mass 174	218261	7.41	(8.03) [a]	Pass
176	95.0 - 101.0% of mass 174	2611366	88.6	(96.0) [a]	Pass
177	5.0 - 9.0% of mass 176	168210	5.71	(6.44) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VA1879-IC1879	A0199337.D	02/24/16	12:29	01:05	Initial cal 1
VA1879-IC1879	A0199338.D	02/24/16	12:52	01:28	Initial cal 2
VA1879-IC1879	A0199339.D	02/24/16	13:17	01:53	Initial cal 3
VA1879-ICC1879	A0199340.D	02/24/16	13:41	02:17	Initial cal 4
VA1879-IC1879	A0199341.D	02/24/16	14:02	02:38	Initial cal 5
VA1879-IC1879	A0199342.D	02/24/16	14:27	03:03	Initial cal 6
VA1879-IC1879	A0199343.D	02/24/16	14:51	03:27	Initial cal 7
VA1879-ICV1879	A0199345.D	02/24/16	15:40	04:16	Initial cal verification 4
VA1879-MB	A0199348.D	02/24/16	16:52	05:28	Method Blank
VA1879-BS	A0199349.D	02/24/16	17:16	05:52	Blank Spike
ZZZZZZ	A0199350.D	02/24/16	17:40	06:16	(unrelated sample)
FA31582-2	A0199351.D	02/24/16	18:04	06:40	(used for QC only; not part of job FA31827)
FA31582-2MS	A0199352.D	02/24/16	18:29	07:05	Matrix Spike
FA31582-2MSD	A0199353.D	02/24/16	18:53	07:29	Matrix Spike Duplicate
VA1879-ECC1879	A0199354.D	02/24/16	19:17	07:53	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: VA1882-BFB
Lab File ID: A0199416.D
Instrument ID: GCMSA
Injection Date: 03/02/16
Injection Time: 08:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	751097	34.4		Pass
75	30.0 - 60.0% of mass 95	1228971	56.3		Pass
95	Base peak, 100% relative abundance	2183519	100.0		Pass
96	5.0 - 9.0% of mass 95	143024	6.55		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	1982634	90.8		Pass
175	5.0 - 9.0% of mass 174	161877	7.41	(8.16) [a]	Pass
176	95.0 - 101.0% of mass 174	1884129	86.3	(95.0) [a]	Pass
177	5.0 - 9.0% of mass 176	126918	5.81	(6.74) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VA1882-CC1879	A0199417.D	03/02/16	08:59	00:35	Continuing cal 4
VA1882-BS	A0199420.D	03/02/16	10:19	01:55	Blank Spike
VA1882-MB	A0199421.D	03/02/16	10:44	02:20	Method Blank
FA31768-18	A0199422.D	03/02/16	11:10	02:46	(used for QC only; not part of job FA31827)
ZZZZZZ	A0199423.D	03/02/16	11:36	03:12	(unrelated sample)
ZZZZZZ	A0199424.D	03/02/16	12:02	03:38	(unrelated sample)
FA31768-18MS	A0199425.D	03/02/16	12:27	04:03	Matrix Spike
FA31768-18MSD	A0199426.D	03/02/16	12:51	04:27	Matrix Spike Duplicate
VA1882-CC1879	A0199427.D	03/02/16	13:17	04:53	Continuing cal 4
ZZZZZZ	A0199429.D	03/02/16	14:24	06:00	(unrelated sample)
ZZZZZZ	A0199430.D	03/02/16	14:49	06:25	(unrelated sample)
ZZZZZZ	A0199431.D	03/02/16	15:15	06:51	(unrelated sample)
FA31827-1	A0199432.D	03/02/16	15:41	07:17	WELL-1820 PINE
FA31827-2	A0199433.D	03/02/16	16:06	07:42	DUP-2
FA31827-3	A0199434.D	03/02/16	16:32	08:08	TRIP BLANK
VA1882-ECC1879	A0199435.D	03/02/16	16:57	08:33	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: VC4540-BFB
Lab File ID: C0114007.D
Instrument ID: GCMSC
Injection Date: 03/02/16
Injection Time: 07:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	37071	19.8		Pass
75	30.0 - 60.0% of mass 95	111264	59.4		Pass
95	Base peak, 100% relative abundance	187309	100.0		Pass
96	5.0 - 9.0% of mass 95	13723	7.33		Pass
173	Less than 2.0% of mass 174	267	0.14	(0.19) [a]	Pass
174	50.0 - 100.0% of mass 95	141777	75.7		Pass
175	5.0 - 9.0% of mass 174	10495	5.60	(7.40) [a]	Pass
176	95.0 - 101.0% of mass 174	136712	73.0	(96.4) [a]	Pass
177	5.0 - 9.0% of mass 176	9733	5.20	(7.12) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC4540-IC4540	C0114008.D	03/02/16	07:50	00:26	Initial cal 1
VC4540-IC4540	C0114009.D	03/02/16	08:16	00:52	Initial cal 2
VC4540-IC4540	C0114010.D	03/02/16	08:42	01:18	Initial cal 3
VC4540-IC4540	C0114011.D	03/02/16	09:08	01:44	Initial cal 4
VC4540-ICC4540	C0114012.D	03/02/16	09:34	02:10	Initial cal 5
VC4540-IC4540	C0114013.D	03/02/16	10:00	02:36	Initial cal 6
VC4540-IC4540	C0114014.D	03/02/16	10:26	03:02	Initial cal 7
VC4540-ICV4540	C0114016.D	03/02/16	11:18	03:54	Initial cal verification 4

Instrument Performance Check (BFB)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: VC4545-BFB
Lab File ID: C0114144.D
Instrument ID: GCMSC
Injection Date: 03/07/16
Injection Time: 08:12

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	19737	18.3		Pass
75	30.0 - 60.0% of mass 95	63189	58.7		Pass
95	Base peak, 100% relative abundance	107665	100.0		Pass
96	5.0 - 9.0% of mass 95	6895	6.40		Pass
173	Less than 2.0% of mass 174	161	0.15	(0.18) [a]	Pass
174	50.0 - 100.0% of mass 95	89912	83.5		Pass
175	5.0 - 9.0% of mass 174	6404	5.95	(7.12) [a]	Pass
176	95.0 - 101.0% of mass 174	89659	83.3	(99.7) [a]	Pass
177	5.0 - 9.0% of mass 176	5649	5.25	(6.30) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC4545-CC4540	C0114145.D	03/07/16	08:38	00:26	Continuing cal 5
VC4545-BS	C0114146.D	03/07/16	09:04	00:52	Blank Spike
VC4545-MB	C0114147.D	03/07/16	09:30	01:18	Method Blank
FA31886-19	C0114148.D	03/07/16	09:56	01:44	(used for QC only; not part of job FA31827)
ZZZZZZ	C0114149.D	03/07/16	10:22	02:10	(unrelated sample)
ZZZZZZ	C0114150.D	03/07/16	10:48	02:36	(unrelated sample)
ZZZZZZ	C0114151.D	03/07/16	11:14	03:02	(unrelated sample)
ZZZZZZ	C0114152.D	03/07/16	11:40	03:28	(unrelated sample)
ZZZZZZ	C0114153.D	03/07/16	12:06	03:54	(unrelated sample)
ZZZZZZ	C0114154.D	03/07/16	12:32	04:20	(unrelated sample)
ZZZZZZ	C0114155.D	03/07/16	12:58	04:46	(unrelated sample)
ZZZZZZ	C0114156.D	03/07/16	13:24	05:12	(unrelated sample)
ZZZZZZ	C0114159.D	03/07/16	14:42	06:30	(unrelated sample)
ZZZZZZ	C0114160.D	03/07/16	15:08	06:56	(unrelated sample)
ZZZZZZ	C0114161.D	03/07/16	15:34	07:22	(unrelated sample)
ZZZZZZ	C0114162.D	03/07/16	16:00	07:48	(unrelated sample)
FA31827-1	C0114163.D	03/07/16	16:26	08:14	WELL-1820 PINE
FA31827-2	C0114164.D	03/07/16	16:52	08:40	DUP-2
FA31886-19MS	C0114168.D	03/07/16	18:36	10:24	Matrix Spike
FA31886-19MSD	C0114169.D	03/07/16	19:02	10:50	Matrix Spike Duplicate
VC4545-ECC4540	C0114170.D	03/07/16	19:28	11:16	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: VC4546-BFB
Lab File ID: C0114177.D
Instrument ID: GCMSC
Injection Date: 03/08/16
Injection Time: 08:22

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	30213	19.9		Pass
75	30.0 - 60.0% of mass 95	89422	59.0		Pass
95	Base peak, 100% relative abundance	151597	100.0		Pass
96	5.0 - 9.0% of mass 95	10513	6.93		Pass
173	Less than 2.0% of mass 174	395	0.26	(0.38) [a]	Pass
174	50.0 - 100.0% of mass 95	104845	69.2		Pass
175	5.0 - 9.0% of mass 174	8639	5.70	(8.24) [a]	Pass
176	95.0 - 101.0% of mass 174	105571	69.6	(100.7) [a]	Pass
177	5.0 - 9.0% of mass 176	6615	4.36	(6.27) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC4546-IC4546	C0114178.D	03/08/16	08:48	00:26	Initial cal 1
VC4546-IC4546	C0114179.D	03/08/16	09:14	00:52	Initial cal 2
VC4546-IC4546	C0114180.D	03/08/16	09:40	01:18	Initial cal 3
VC4546-IC4546	C0114181.D	03/08/16	10:06	01:44	Initial cal 4
VC4546-ICC4546	C0114182.D	03/08/16	10:32	02:10	Initial cal 5
VC4546-IC4546	C0114183.D	03/08/16	10:58	02:36	Initial cal 6
VC4546-IC4546	C0114184.D	03/08/16	11:24	03:02	Initial cal 7
VC4546-ICV4546	C0114186.D	03/08/16	12:16	03:54	Initial cal verification 5
VC4546-BS	C0114187.D	03/08/16	12:42	04:20	Blank Spike
VC4546-MB	C0114188.D	03/08/16	13:08	04:46	Method Blank
ZZZZZZ	C0114189.D	03/08/16	13:34	05:12	(unrelated sample)
ZZZZZZ	C0114190.D	03/08/16	14:00	05:38	(unrelated sample)
FA31814-5	C0114191.D	03/08/16	14:26	06:04	(used for QC only; not part of job FA31827)
FA31814-5A	C0114192.D	03/08/16	14:52	06:30	(used for QC only; not part of job FA31827)
ZZZZZZ	C0114193.D	03/08/16	15:18	06:56	(unrelated sample)
FA31827-3	C0114194.D	03/08/16	15:44	07:22	TRIP BLANK
ZZZZZZ	C0114195.D	03/08/16	16:10	07:48	(unrelated sample)
ZZZZZZ	C0114196.D	03/08/16	16:36	08:14	(unrelated sample)
ZZZZZZ	C0114197.D	03/08/16	17:02	08:40	(unrelated sample)
FA31814-5MS	C0114198.D	03/08/16	17:27	09:05	Matrix Spike
FA31814-5MSD	C0114199.D	03/08/16	17:53	09:31	Matrix Spike Duplicate
VC4546-ECC4546	C0114200.D	03/08/16	18:19	09:57	Ending cal 5

Volatile Internal Standard Area Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Check Std:	VA1882-CC1879	**Injection Date:**	03/02/16
Lab File ID:	A0199417.D	**Injection Time:**	08:59
Instrument ID:	GCMSA	**Method:**	SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	1871236	7.57	96686	8.46
Check Std [b]	1497445	7.57	75800	8.45
Upper Limit [c]	2994890	8.07	151600	8.95
Lower Limit [d]	748723	7.07	37900	7.95

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VA1882-BS	1533790	7.57	81683	8.46
VA1882-MB	1512120	7.57	72776	8.45
FA31768-18	1555567	7.57	75623	8.46
ZZZZZZ	1614995	7.57	87238	8.46
ZZZZZZ	1508445	7.57	77369	8.46
FA31768-18MS	1449832	7.57	72748	8.45
FA31768-18MSD	1507674	7.57	71037	8.45

IS 1 = Fluorobenzene
IS 2 = 1,4-Dioxane-d8

(a) Initial Cal is: VA1879-ICC1879 A0199340.D 02/24/16 13:41
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Check Std:	VA1882-CC1879	**Injection Date:**	03/02/16
Lab File ID:	A0199427.D	**Injection Time:**	13:17
Instrument ID:	GCMSA	**Method:**	SW846 8260B BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	1871236	7.57	96686	8.46
Check Std [b]	1556442	7.57	66614	8.46
Upper Limit [c]	3112884	8.07	133228	8.96
Lower Limit [d]	778221	7.07	33307	7.96

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
ZZZZZZ	1360542	7.57	61723	8.46
ZZZZZZ	1698070	7.57	72096	8.45
ZZZZZZ	1357707	7.57	51735	8.45
FA31827-1	1625578	7.57	62642	8.45
FA31827-2	1480006	7.57	54991	8.45
FA31827-3	1359455	7.58	62307	8.46
VA1882-ECC18791	430846	7.57	55026	8.46

IS 1 = Fluorobenzene
IS 2 = 1,4-Dioxane-d8

(a) Initial Cal is: VA1879-ICC1879 A0199340.D 02/24/16 13:41
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Check Std:	VC4545-CC4540	**Injection Date:**	03/07/16
Lab File ID:	C0114145.D	**Injection Time:**	08:38
Instrument ID:	GCMSC	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1015166	6.89	784770	10.02	505450	12.38	85654	4.52
Check Std [b]	965530	6.89	749768	10.01	461809	12.38	82909	4.52
Upper Limit [c]	1931060	7.39	1499536	10.51	923618	12.88	165818	5.02
Lower Limit [d]	482765	6.39	374884	9.51	230905	11.88	41455	4.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VC4545-BS	967702	6.89	806294	10.02	486500	12.38	95641	4.52
VC4545-MB	1064143	6.89	760990	10.01	437434	12.38	113818	4.52
FA31886-19	984637	6.90	629341	10.02	384998	12.38	94927	4.52
ZZZZZZ	985834	6.89	686951	10.01	415155	12.38	91744	4.52
ZZZZZZ	987656	6.89	672441	10.01	408575	12.38	89917	4.52
ZZZZZZ	936329	6.89	593355	10.01	383415	12.38	74468	4.53
ZZZZZZ	932315	6.90	613436	10.01	394730	12.38	84675	4.52
ZZZZZZ	904738	6.89	553390	10.01	348140	12.38	80387	4.55
ZZZZZZ	938717	6.89	580823	10.01	355445	12.38	74614	4.52
ZZZZZZ	912193	6.89	565625	10.02	338043	12.38	68480	4.52
ZZZZZZ	926963	6.90	555295	10.02	322897	12.38	64060	4.52
ZZZZZZ	912828	6.89	601848	10.01	352498	12.38	75060	4.52
ZZZZZZ	880354	6.89	539345	10.02	343628	12.38	64296	4.52
ZZZZZZ	908699	6.89	544313	10.02	335675	12.38	60611	4.52
ZZZZZZ	878727	6.89	503146	10.01	318934	12.38	78125	4.54
FA31827-1	894351	6.89	546328	10.02	316535	12.38	77450	4.53
FA31827-2	923212	6.89	607398	10.02	330591	12.38	69251	4.52
FA31886-19MS	916173	6.90	667718	10.01	413264	12.38	85067	4.53
FA31886-19MSD	962895	6.89	710819	10.01	438115	12.38	66502	4.52
VC4545-ECC45401040206	1040206	6.89	742211	10.01	452570	12.38	69068	4.53

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VC4540-ICC4540 C0114012.D 03/02/16 09:34
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Check Std:	VC4546-ICC4546	**Injection Date:**	03/08/16
Lab File ID:	C0114182.D	**Injection Time:**	10:32
Instrument ID:	GCMSC	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1049044	6.89	783916	10.01	507257	12.38	103037	4.52
Check Std [b]	1049044	6.89	783916	10.01	507257	12.38	103037	4.52
Upper Limit [c]	2098088	7.39	1567832	10.51	1014514	12.88	206074	5.02
Lower Limit [d]	524522	6.39	391958	9.51	253629	11.88	51519	4.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VC4546-BS	1060095	6.89	816420	10.01	526944	12.38	107455	4.52
VC4546-MB	1043950	6.89	819345	10.01	466363	12.38	103623	4.52
ZZZZZZ	1026103	6.89	779274	10.01	455890	12.38	109328	4.51
ZZZZZZ	1003418	6.89	732961	10.01	455047	12.38	99802	4.52
FA31814-5	1034397	6.89	690722	10.01	413453	12.38	102648	4.52
FA31814-5A	968161	6.89	770284	10.02	436430	12.38	99274	4.52
ZZZZZZ	965297	6.89	735566	10.01	425518	12.38	101508	4.52
FA31827-3	961788	6.89	693574	10.02	423340	12.38	93216	4.52
ZZZZZZ	946616	6.89	750302	10.02	426513	12.38	99016	4.52
ZZZZZZ	937776	6.89	720202	10.02	413000	12.38	91594	4.52
ZZZZZZ	953383	6.89	641863	10.02	405680	12.38	92757	4.52
FA31814-5MS	925392	6.89	705943	10.01	476189	12.38	86813	4.52
FA31814-5MSD	1023907	6.89	843761	10.01	539644	12.38	97954	4.52
VC4546-ECC45461	1100717	6.89	849257	10.01	542294	12.38	110152	4.52

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VC4546-ICC4546 C0114182.D 03/08/16 10:32
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Method: SW846 8260B BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FA31827-1	A0199432.D	109	100
FA31827-2	A0199433.D	110	100
FA31827-3	A0199434.D	111	99
FA31768-18MS	A0199425.D	109	99
FA31768-18MSD	A0199426.D	109	99
VA1882-BS	A0199420.D	107	100
VA1882-MB	A0199421.D	108	99

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

Volatile Surrogate Recovery Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Method: SW846 8260B **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FA31827-1	C0114163.D	121* [a]	118	104	94
FA31827-2	C0114164.D	117	116	101	96
FA31827-3	C0114194.D	113	111	97	102
FA31814-5MS	C0114198.D	106	103	95	90
FA31814-5MSD	C0114199.D	102	98	91	102
FA31886-19MS	C0114168.D	107	103	98	87
FA31886-19MSD	C0114169.D	108	105	98	90
VC4545-BS	C0114146.D	101	101	94	100
VC4545-MB	C0114147.D	108	109	99	98
VC4546-BS	C0114187.D	99	95	97	104
VC4546-MB	C0114188.D	111	103	97	108

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%
S4 = 4-Bromofluorobenzene	83-118%

(a) Outside control limits; however, sample is ND.

Initial Calibration Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC
Sample: VA1879-ICC1879
Lab FileID: A0199340.D

```
                         Response Factor Report  MSVOA10

 Method       : C:\msdchem\1\METHODS\simA022416.m (RTE Integrator)
 Title        : 1,4-Dioxane by SIM
 Last Update  : Wed Feb 24 15:04:37 2016
 Response via : Initial Calibration

 Calibration Files
 1   =A0199337.D  2   =A0199338.D  3   =A0199339.D  4   =A0199340.D
 5   =A0199341.D  6   =A0199342.D  7   =A0199343.D

    Compound             1     2     3     4     5     6     7     Avg   %RSD
 ---------------------------------------------------------------------------

 1) I   Fluorobenzene         ----------------ISTD---------------------
 2)S 1,2-Dichloroethan 0.475 0.473 0.475 0.475 0.475 0.476 0.475 0.475   0.22
 3)S Toluene-d8        0.871 0.871 0.871 0.873 0.873 0.872 0.876 0.873   0.19

 4) I   1,4-Dioxane-d8        ----------------ISTD---------------------
 5)  1,4-Dioxane       1.981 1.755 1.721 1.882 2.029 1.993 2.022 1.912   6.73
---------------------------------------------------------------------------
(#) = Out of Range

          simA022416.m        Thu Feb 25 10:07:31 2016
```

Initial Calibration Verification

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC
Sample: VA1879-ICV1879
Lab FileID: A0199345.D

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\022416\A0199345.D          Vial: 6
Acq On    : 24 Feb 2016   3:40 pm                     Operator: TRANGD
Sample    : ICV1879-4                                 Inst    : MSVOA10
Misc      : MS33094,VA1879,,,,,                       Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\simA022416.m (RTE Integrator)
Title        : 1,4-Dioxane by SIM
Last Update  : Wed Feb 24 15:04:37 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	108	0.00	7.57
2	S	1,2-Dichloroethane-d4	0.475	0.476	-0.2	108	0.00	7.31
3	S	Toluene-d8	0.873	0.870	0.3	107	0.00	9.10
4	I	1,4-Dioxane-d8	1.000	1.000	0.0	108	0.00	8.45
5		1,4-Dioxane	1.912	2.067	-8.1	119	0.00	8.49

(#) = Out of Range SPCC's out = 0 CCC's out = 0
A0199340.D simA022416.m Thu Feb 25 10:07:46 2016

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VA1882-CC1879
Account: URSNCM AECOM, INC. **Lab FileID:** A0199417.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\030216\A0199417.D          Vial: 1
Acq On    :  2 Mar 2016   8:59 am                    Operator: MELISSAM
Sample    : CC1879-4                                 Inst    : MSVOA10
Misc      : MS33140,VA1882,,,,,                      Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\simA022416.m (RTE Integrator)
Title        : 1,4-Dioxane by SIM
Last Update  : Mon Feb 29 12:11:55 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	80	0.00	7.57
2	S	1,2-Dichloroethane-d4	0.475	0.515	-8.4	87	0.00	7.31
3	S	Toluene-d8	0.873	0.877	-0.5	80	0.00	9.10
4	I	1,4-Dioxane-d8	1.000	1.000	0.0	78	0.00	8.45
5		1,4-Dioxane	1.912	2.155	-12.7	90	0.00	8.49

(#) = Out of Range SPCC's out = 0 CCC's out = 0
A0199340.D simA022416.m Thu Mar 03 08:15:07 2016

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VA1882-CC1879
Account: URSNCM AECOM, INC. **Lab FileID:** A0199427.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\030216\A0199427.D          Vial: 11
Acq On    :  2 Mar 2016   1:17 pm                     Operator: MELISSAM
Sample    : CC1879-4                                  Inst    : MSVOA10
Misc      : MS33148,VA1882,,,,,                       Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\simA022416.m (RTE Integrator)
Title        : 1,4-Dioxane by SIM
Last Update  : Mon Feb 29 12:11:55 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	83	0.00	7.57
2	S	1,2-Dichloroethane-d4	0.475	0.515	-8.4	90	0.00	7.31
3	S	Toluene-d8	0.873	0.867	0.7	83	0.00	9.10
4	I	1,4-Dioxane-d8	1.000	1.000	0.0	69	0.00	8.46
5		1,4-Dioxane	1.912	2.253	-17.8	82	0.00	8.49

(#) = Out of Range SPCC's out = 0 CCC's out = 0
A0199340.D simA022416.m Thu Mar 03 08:18:22 2016

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VA1882-ECC1879
Account: URSNCM AECOM, INC. **Lab FileID:** A0199435.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\030216\A0199435.D          Vial: 19
Acq On    :  2 Mar 2016   4:57 pm                     Operator: MELISSAM
Sample    : ECC1879-4                                 Inst    : MSVOA10
Misc      : MS33168,VA1882,,,,,                       Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\simA022416.m (RTE Integrator)
Title        : 1,4-Dioxane by SIM
Last Update  : Mon Feb 29 12:11:55 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	76	0.00	7.57
2	S	1,2-Dichloroethane-d4	0.475	0.525	-10.5	84	0.00	7.31
3	S	Toluene-d8	0.873	0.863	1.1	76	0.00	9.10
4	I	1,4-Dioxane-d8	1.000	1.000	0.0	57	0.00	8.46
5		1,4-Dioxane	1.912	2.341	-22.4	71	0.00	8.49

```
(#) = Out of Range              SPCC's out = 0  CCC's out = 0
 A0199340.D simA022416.m       Thu Mar 03 08:15:23 2016
```

6.7.5

6

Initial Calibration Summary

Job Number: FA31827 **Sample:** VC4540-ICC4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114012.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Response Factor Report MSVOA5

Method : C:\msdchem\2\METHODS\030216APP9-C.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Mar 02 12:36:33 2016
Response via : Initial Calibration

Calibration Files
1 =C0114008.D 2 =C0114009.D 3 =C0114010.D 4 =C0114011.D
5 =C0114012.D 6 =C0114013.D 7 =C0114014.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.513	0.614	0.626	0.645	0.697	0.643	0.591	0.618	9.21
3)P Chloromethane	0.349	0.306	0.348	0.363	0.373	0.351	0.334	0.346	6.24
4)C Vinyl Chloride	0.340	0.321	0.352	0.375	0.385	0.368	0.357	0.357	6.06
5) Bromomethane	0.324	0.268	0.240	0.257	0.244	0.236	0.218	0.255	13.40
6) Chloroethane	0.189	0.202	0.195	0.196	0.199	0.179	0.169	0.190	6.19
7) Trichlorofluorome	0.763	0.861	0.873	0.879	0.899	0.812	0.744	0.833	7.28
8) Ethyl Ether	0.167	0.218	0.232	0.254	0.239	0.239	0.236	0.226	12.44
9) 1,2-Dichlorotrifl	0.372	0.389	0.407	0.400	0.372	0.374	0.347	0.380	5.33
10)C 1,1-Dichloroethen	0.523	0.635	0.647	0.640	0.623	0.591	0.569	0.604	7.54
11) Freon 113	0.375	0.410	0.407	0.415	0.393	0.389	0.367	0.394	4.56
12) Carbon Disulfide	0.890	0.949	0.936	0.955	0.933	0.909	0.889	0.923	2.94
13) Iodomethane	0.632	0.683	0.703	0.719	0.712	0.689	0.697	0.691	4.18
14) Allyl chloride	0.140	0.168	0.194	0.182	0.192	0.188	0.182	0.178	10.61
15) Methylene Chlorid	0.469	0.432	0.425	0.418	0.401	0.384	0.376	0.415	7.57
16) Acetone	0.102	0.069	0.067	0.066	0.060	0.061	0.058	0.069	21.49
---- Linear regr., Force(0,0) ---- Coefficient = 0.9979									
Response Ratio = 0.00000 + 0.05993 *A									
17) Methyl acetate	0.132	0.134	0.127	0.128	0.123	0.121	0.119	0.126	4.39
18) trans-1,2-Dichlor	0.438	0.509	0.512	0.513	0.496	0.470	0.458	0.485	6.19
19) Hexane	0.200	0.225	0.231	0.234	0.233	0.224	0.216	0.223	5.43
20) Methyl Tert Butyl	0.890	0.993	0.981	1.018	0.973	0.949	0.930	0.962	4.43
21) Acetonitrile	0.026	0.015	0.016	0.015	0.016	0.016	0.015	0.017	24.70
---- Linear regr., Force(0,0) ---- Coefficient = 0.9995									
Response Ratio = 0.00000 + 0.01547 *A									
22) Di-isopropyl ethe	0.690	0.790	0.845	0.843	0.820	0.782	0.766	0.791	6.81
23) Chloroprene	0.279	0.336	0.349	0.339	0.349	0.338	0.327	0.331	7.28
24)P 1,1-Dichloroethan	0.545	0.639	0.642	0.632	0.626	0.582	0.565	0.605	6.57
25) Acrylonitrile	0.069	0.062	0.066	0.068	0.062	0.064	0.061	0.065	4.72
26) ETBE	0.844	1.000	1.026	1.042	1.011	0.968	0.937	0.975	6.96
27) Vinyl acetate	0.454	0.408	0.433	0.443	0.407	0.406	0.372	0.418	6.64
28) cis-1,2-Dichloroe	0.375	0.438	0.438	0.441	0.421	0.397	0.398	0.415	6.20
29) 2,2-Dichloropropa	0.525	0.517	0.517	0.517	0.498	0.436	0.402	0.487	9.96
30) Bromochloromethan	0.173	0.206	0.214	0.209	0.204	0.197	0.189	0.199	7.09
31) Cyclohexane	0.329	0.447	0.454	0.447	0.431	0.414	0.395	0.417	10.59
32)C Chloroform	0.830	0.870	0.845	0.845	0.820	0.783	0.747	0.820	5.11
33) Ethyl acetate	0.178	0.138	0.159	0.158	0.146	0.156	0.143	0.154	8.70
34) Tetrahydrofuran	0.066	0.052	0.043	0.044	0.038	0.038	0.037	0.046	22.69
---- Linear regr., Force(0,0) ---- Coefficient = 0.9971									
Response Ratio = 0.00000 + 0.03807 *A									
35)S Dibromofluorometh	0.387	0.374	0.350	0.340	0.337	0.328	0.320	0.348	7.04
36) Carbon Tetrachlor	0.702	0.775	0.821	0.801	0.784	0.739	0.712	0.762	5.94
37) 1,1,1-Trichloroet	0.722	0.807	0.833	0.825	0.805	0.760	0.709	0.780	6.40

Initial Calibration Summary

Job Number: FA31827 **Sample:** VC4540-ICC4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114012.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

```
38)  2-Butanone        0.095 0.074 0.073 0.074 0.072 0.073 0.067 0.075  11.79
39)  1,1-Dichloroprope 0.506 0.509 0.520 0.538 0.532 0.512 0.479 0.514   3.76
40)  Propionitrile     0.028 0.024 0.024 0.024 0.024 0.023 0.021 0.024   8.30
41)  Methacrylonitrile 0.119 0.122 0.121 0.116 0.115 0.110 0.100 0.115   6.59
42)  Benzene           1.209 1.261 1.317 1.308 1.280 1.209 1.148 1.248   4.91
43)  TAME              0.763 0.853 0.885 0.906 0.890 0.856 0.826 0.854   5.67
44)S 1,2-Dichloroethan 0.516 0.486 0.473 0.459 0.454 0.452 0.442 0.469   5.36
45)  1,2-Dichloroethan 0.674 0.668 0.694 0.690 0.674 0.638 0.616 0.665   4.22
46)  Trichloroethene   0.366 0.432 0.403 0.426 0.418 0.391 0.372 0.401   6.46
47)  Methylcyclohexane 0.373 0.457 0.517 0.517 0.506 0.493 0.459 0.474  10.78
48)  Dibromomethane    0.209 0.248 0.247 0.257 0.250 0.244 0.234 0.242   6.60
49)C 1,2-Dichloropropa 0.213 0.239 0.268 0.267 0.269 0.258 0.244 0.251   8.28
50)  Bromodichlorometh 0.482 0.569 0.583 0.612 0.589 0.579 0.547 0.566   7.39
51)  Methyl methacryla 0.029 0.030 0.053 0.050 0.055 0.059 0.057 0.048  26.64
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9982
              Response Ratio = 0.00000 + 0.05701 *A

52)  2-Chloroethyl vin 0.027 0.037 0.114 0.101 0.112 0.118 0.111 0.089  44.34
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9967
              Response Ratio = 0.00000 + 0.11257 *A

53)  cis-1,3-Dichlorop 0.325 0.405 0.527 0.529 0.529 0.532 0.507 0.479  17.06
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.51727 *A


54) I   Chlorobenzene-d5      ----------------ISTD---------------------
55)S Toluene-d8        1.231 1.240 1.167 1.224 1.229 1.249 1.249 1.227   2.30
56)C Toluene           1.330 1.520 1.530 1.663 1.643 1.550 1.487 1.532   7.19
57)  2-Nitropropane    0.043 0.064 0.085 0.092 0.092 0.097 0.097 0.081  25.27
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.09578 *A

58)  4-Methyl-2-pentan 0.175 0.171 0.198 0.210 0.197 0.194 0.178 0.189   7.69
59)  trans-1,3-Dichlor 0.446 0.487 0.568 0.576 0.578 0.582 0.563 0.543   9.90
60)  Tetrachloroethene 0.532 0.529 0.511 0.525 0.519 0.523 0.508 0.521   1.69
61)  Ethyl methacrylat 0.194 0.199 0.345 0.320 0.346 0.366 0.356 0.304  24.60
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.35556 *A

62)  1,1,2-Trichloroet 0.212 0.251 0.255 0.269 0.260 0.253 0.249 0.250   7.25
63)  Dibromochlorometh 0.360 0.457 0.508 0.554 0.554 0.545 0.538 0.502  14.24
64)  1,3-Dichloropropa 0.405 0.432 0.562 0.564 0.562 0.555 0.545 0.518  13.25
65)  1,2-Dibromoethane 0.270 0.318 0.378 0.375 0.374 0.379 0.377 0.353  12.12
66)  2-hexanone        0.096 0.085 0.143 0.129 0.126 0.132 0.123 0.119  17.42
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9964
              Response Ratio = 0.00000 + 0.12642 *A

67)  1-Chlorohexane    0.269 0.360 0.520 0.514 0.529 0.539 0.519 0.464  22.85
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.52519 *A

68)C Ethylbenzene      1.486 1.763 1.927 1.925 1.911 1.775 1.683 1.781   9.05
69)P Chlorobenzene     0.866 1.032 1.087 1.123 1.105 1.047 1.030 1.041   8.21
70)  1,1,1,2-Tetrachlo 0.405 0.485 0.502 0.566 0.564 0.535 0.525 0.512  10.85
71)  m,p-Xylene        1.014 1.423 1.624 1.594 1.558 1.398 1.281 1.413  15.16
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 1.71381 *A + -0.10877 *A^2

72)  o-Xylene          1.015 1.320 1.747 1.878 1.858 1.714 1.639 1.596  19.82
```

Initial Calibration Summary

Job Number: FA31827 **Sample:** VC4540-ICC4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114012.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

```
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9955
              Response Ratio = 0.00000 + 1.69308 *A

73)  Styrene           0.569 0.887 1.178 1.166 1.200 1.159 1.132 1.041  22.47
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 1.14776 *A

74)P Bromoform         0.284 0.237 0.274 0.296 0.295 0.298 0.301 0.283   7.96
75)  Isopropylbenzene  0.953 1.673 2.053 2.209 2.206 2.048 1.912 1.865  23.72
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9942
              Response Ratio = 0.00000 + 1.99353 *A


76) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
77)S 4-Bromofluorobenz 0.713 0.699 0.756 0.721 0.734 0.758 0.759 0.734   3.29
78)  cis-1,4-Dichloro- 0.198 0.170 0.223 0.194 0.213 0.218 0.214 0.204   9.01
79)  n-Propylbenzene   2.517 3.318 3.789 3.667 3.570 3.309 3.006 3.311  13.20
80)  Bromobenzene      0.650 0.808 0.898 0.876 0.849 0.833 0.806 0.817   9.94
81)P 1,1,2,2-Tetrachlo 0.522 0.573 0.622 0.635 0.630 0.614 0.580 0.597   6.80
82)  1,3,5-Trimethylbe 1.854 2.788 3.092 3.168 3.109 2.871 2.634 2.788  16.32
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9921
              Response Ratio = 0.00000 + 2.77916 *A

83)  2-Chlorotoluene   1.869 2.573 2.885 2.933 2.880 2.670 2.480 2.613  14.18
84)  trans-1,4-Dichlor 0.152 0.150 0.200 0.200 0.183 0.194 0.192 0.182  12.00
85)  1,2,3-Trichloropr 0.202 0.223 0.234 0.228 0.224 0.219 0.213 0.220   4.77
86)  Cyclohexanone     0.004 0.009 0.013 0.014 0.013 0.015 0.014 0.012  34.00
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9963
              Response Ratio = 0.00000 + 0.01402 *A

87)  4-Chlorotoluene   1.706 2.283 2.769 2.697 2.691 2.497 2.347 2.427  15.15
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9949
              Response Ratio = 0.00000 + 2.44598 *A

88)  tert-Butylbenzene 1.172 1.717 2.003 2.191 2.144 2.039 1.878 1.878  18.63
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9939
              Response Ratio = 0.00000 + 1.96472 *A

89)  1,2,4-Trimethylbe 1.597 2.785 3.129 3.170 3.128 2.903 2.667 2.768  19.90
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9926
              Response Ratio = 0.00000 + 2.80928 *A

90)  Pentachloroethane 0.424 0.562 0.540 0.592 0.596 0.557 0.527 0.543  10.64
91)  sec-Butylbenzene  1.867 3.073 3.511 3.704 3.680 3.382 3.096 3.188  19.91
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9916
              Response Ratio = 0.00000 + 3.26724 *A

92)  4-Isopropyltoluen 1.636 2.654 3.328 3.496 3.456 3.230 2.954 2.965  22.15
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9922
              Response Ratio = 0.00000 + 3.11006 *A

93)  1,3-Dichlorobenze 1.330 1.660 1.738 1.793 1.761 1.665 1.561 1.644   9.64
94)  1,4-Dichlorobenze 1.417 1.562 1.664 1.683 1.717 1.597 1.513 1.593   6.63
95)  n-Butylbenzene    0.903 1.359 1.734 1.829 1.770 1.668 1.548 1.544  20.97
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9938
              Response Ratio = 0.00000 + 1.61914 *A

96)  Benzyl Chloride   0.138 0.259 0.273 0.311 0.292 0.299 0.283 0.265  22.08
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9979
              Response Ratio = 0.00000 + 0.28932 *A
```

Initial Calibration Summary

Job Number: FA31827 **Sample:** VC4540-ICC4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114012.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

```
 97)  1,2-Dichlorobenze 1.291 1.641 1.711 1.767 1.737 1.632 1.518 1.614  10.20
 98)  1,2-Dibromo-3-Chl 0.133 0.135 0.155 0.185 0.172 0.180 0.178 0.163  13.37
 99)  Hexachlorobutadie 0.566 0.657 0.696 0.716 0.724 0.690 0.659 0.672   7.97
100)  1,2,4-Trichlorobe 0.875 1.069 1.159 1.267 1.251 1.198 1.134 1.136  11.77
101)  Naphthalene       1.100 1.614 1.964 2.326 2.236 2.172 2.001 1.916  22.37
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9940
               Response Ratio = 0.00000 + 2.08403 *A

102)  1,2,3-Trichlorobe 0.751 1.024 1.046 1.171 1.124 1.059 1.000 1.025  13.12

103) I   Tert Butyl Alcohol-d1 ----------------ISTD----------------------
104)  Ethanol                 0.073 0.093 0.091 0.084 0.097 0.091 0.088   9.55
105)  Acrolein          2.107 2.122 2.153 2.423 2.280 2.435 2.237 2.251   6.05
106)  Tert Butyl Alcoho 0.910 1.128 1.129 1.357 1.228 1.289 1.211 1.179  12.22
107)  Isobutyl alcohol  0.235 0.198 0.195 0.207 0.209 0.209 0.192 0.206   7.01
108)  Tert Amyl Alcohol 0.582 0.720 0.846 0.931 0.844 0.906 0.819 0.807  14.87
109)  1,4-Dioxane             0.057 0.098 0.108 0.115 0.116 0.118 0.102  22.87
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.11626 *A

 ---------------------------------------------------------------------------
 (#) = Out of Range

           030216APP9-C.m        Wed Mar 02 13:20:02 2016
```

Initial Calibration Verification

Job Number: FA31827 **Sample:** VC4540-ICV4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114016.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\030216\C0114016.D Vial: 14
Acq On : 2 Mar 2016 11:18 am Operator: ericp
Sample : ICV4540-4 Inst : MSVOA5
Misc : ms32892,vc4540,,,,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\METHODS\030216APP9-C.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Wed Mar 02 12:36:33 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00	6.90
2		Dichlorodifluoromethane	0.618	0.612	1.0	88	0.00	2.21
3	P	Chloromethane	0.346	0.357	-3.2	96	0.00	2.40
4	C	Vinyl Chloride	0.357	0.407	-14.0	106	0.00	2.52
5		Bromomethane	0.255	0.269	-5.5	111	0.00	2.86
6		Chloroethane	0.190	0.200	-5.3	101	-0.01	3.00
7		Trichlorofluoromethane	0.833	0.931	-11.8	104	0.01	3.15
8		Ethyl Ether	0.226	0.238	-5.3	100	0.00	3.43
9		1,2-Dichlorotrifluoroetha	0.380	0.417	-9.7	112	0.01	3.65
10	C	1,1-Dichloroethene	0.604	0.645	-6.8	104	0.00	3.67
11		Freon 113	0.394	0.396	-0.5	101	0.00	3.71
12		Carbon Disulfide	0.923	0.950	-2.9	102	0.00	3.71
13		Iodomethane	0.691	0.720	-4.2	102	0.00	3.82
14		Allyl chloride	0.178	0.170	4.5	89	0.00	4.15
15		Methylene Chloride	0.415	0.427	-2.9	107	0.00	4.26
		----------	Amount	Calc.	%Drift		----------	
16		Acetone	200.000	212.582	-6.3	106	0.00	4.31
		----------	AvgRF	CCRF	%Dev		----------	
17		Methyl acetate	0.126	0.132	-4.8	108	0.00	4.42
18		trans-1,2-Dichloroethene	0.485	0.540	-11.3	109	0.00	4.42
19		Hexane	0.223	0.228	-2.2	98	0.00	4.48
20		Methyl Tert Butyl Ether	0.962	1.014	-5.4	105	0.00	4.52
		----------	Amount	Calc.	%Drift		----------	
21		Acetonitrile	400.000	375.019	6.2	94	0.00	4.80
		----------	AvgRF	CCRF	%Dev		----------	
22		Di-isopropyl ether	0.791	0.849	-7.3	104	0.00	4.88
23		Chloroprene	0.331	0.334	-0.9	96	0.00	5.02
24	P	1,1-Dichloroethane	0.605	0.651	-7.6	104	0.00	5.05
25		Acrylonitrile	0.065	0.067	-3.1	108	0.00	5.11
26		ETBE	0.975	1.025	-5.1	102	0.00	5.25
27		Vinyl acetate	0.418	0.438	-4.8	108	0.00	5.28
28		cis-1,2-Dichloroethene	0.415	0.426	-2.7	102	0.00	5.60
29		2,2-Dichloropropane	0.487	0.527	-8.2	106	0.00	5.71
30		Bromochloromethane	0.199	0.208	-4.5	103	0.00	5.81
31		Cyclohexane	0.417	0.445	-6.7	104	0.00	5.81
32	C	Chloroform	0.820	0.843	-2.8	103	0.00	5.87
33		Ethyl acetate	0.154	0.157	-1.9	108	0.00	5.97

Initial Calibration Verification

Job Number: FA31827 **Sample:** VC4540-ICV4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114016.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
34		Tetrahydrofuran	40.000	44.492	-11.2	113	0.00	6.05

			AvgRF	CCRF	%Dev			
35	S	Dibromofluoromethane	0.348	0.344	1.1	103	0.00	6.06
36		Carbon Tetrachloride	0.762	0.823	-8.0	105	0.00	6.03
37		1,1,1-Trichloroethane	0.780	0.807	-3.5	101	0.00	6.10
38		2-Butanone	0.075	0.073	2.7	101	0.00	6.19
39		1,1-Dichloropropene	0.514	0.566	-10.1	107	0.00	6.22
40		Propionitrile	0.024	0.023	4.2	98	0.00	6.51
41		Methacrylonitrile	0.115	0.115	0.0	101	0.00	6.52
42		Benzene	1.248	1.297	-3.9	102	0.00	6.48
43		TAME	0.854	0.883	-3.4	100	0.00	6.57
44	S	1,2-Dichloroethane-d4	0.469	0.445	5.1	99	0.00	6.62
45		1,2-Dichloroethane	0.665	0.676	-1.7	101	0.00	6.69
46		Trichloroethene	0.401	0.417	-4.0	100	0.00	7.07
47		Methylcyclohexane	0.474	0.540	-13.9	107	0.00	7.05
48		Dibromomethane	0.242	0.270	-11.6	108	0.00	7.50
49	C	1,2-Dichloropropane	0.251	0.275	-9.6	103	0.00	7.60
50		Bromodichloromethane	0.566	0.613	-8.3	105	0.00	7.65

			Amount	Calc.	%Drift			
51		Methyl methacrylate	40.000	39.248	1.9	103	0.00	7.78
52		2-Chloroethyl vinyl ether	200.000	182.193	8.9	92	0.00	8.20
53		cis-1,3-Dichloropropene	40.000	41.412	-3.5	102	0.00	8.28

			AvgRF	CCRF	%Dev			
54	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	10.02
55	S	Toluene-d8	1.227	1.229	-0.2	100	0.00	8.46
56	C	Toluene	1.532	1.671	-9.1	101	0.00	8.51

			Amount	Calc.	%Drift			
57		2-Nitropropane	200.000	195.403	2.3	101	0.00	8.76

			AvgRF	CCRF	%Dev			
58		4-Methyl-2-pentanone	0.189	0.214	-13.2	109	0.00	8.88
59		trans-1,3-Dichloropropene	0.543	0.611	-12.5	105	0.00	8.92
60		Tetrachloroethene	0.521	0.528	-1.3	101	0.00	8.90

			Amount	Calc.	%Drift			
61		Ethyl methacrylate	40.000	33.807	15.5	87	0.00	9.05

			AvgRF	CCRF	%Dev			
62		1,1,2-Trichloroethane	0.250	0.265	-6.0	101	0.00	9.09
63		Dibromochloromethane	0.502	0.564	-12.4	101	0.00	9.27
64		1,3-Dichloropropane	0.518	0.540	-4.2	96	0.00	9.37
65		1,2-Dibromoethane	0.353	0.384	-8.8	102	0.00	9.52

			Amount	Calc.	%Drift			
66		2-hexanone	200.000	198.051	1.0	99	0.00	9.70
67		1-Chlorohexane	40.000	41.355	-3.4	102	0.00	9.98

			AvgRF	CCRF	%Dev			
68	C	Ethylbenzene	1.781	1.940	-8.9	101	0.00	10.04
69	P	Chlorobenzene	1.041	1.126	-8.2	102	0.00	10.03
70		1,1,1,2-Tetrachloroethane	0.512	0.591	-15.4	104	0.00	10.09

			Amount	Calc.	%Drift			
71		m,p-Xylene	80.000	83.326	-4.2	102	0.00	10.18

Initial Calibration Verification

Job Number: FA31827 **Sample:** VC4540-ICV4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114016.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

72		o-Xylene	40.000	46.141	-15.4	105	0.00	10.62
73		Styrene	40.000	43.025	-7.6	103	0.00	10.67
		----------	AvgRF	CCRF	%Dev	----------		
74	P	Bromoform	0.283	0.318	-12.4	108	0.00	10.72
		----------	Amount	Calc.	%Drift	----------		
75		Isopropylbenzene	40.000	45.952	-14.9	104	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	12.38
77	S	4-Bromofluorobenzene	0.734	0.714	2.7	99	0.00	11.24
78		cis-1,4-Dichloro-2-butene	0.204	0.182	10.8	87	0.00	11.29
79		n-Propylbenzene	3.311	3.705	-11.9	106	0.00	11.35
80		Bromobenzene	0.817	0.860	-5.3	103	0.00	11.35
81	P	1,1,2,2-Tetrachloroethane	0.597	0.609	-2.0	99	0.00	11.43
		----------	Amount	Calc.	%Drift	----------		
82		1,3,5-Trimethylbenzene	40.000	44.519	-11.3	102	0.00	11.54
		----------	AvgRF	CCRF	%Dev	----------		
83		2-Chlorotoluene	2.613	2.912	-11.4	103	0.00	11.53
84		trans-1,4-Dichloro-2-Bute	0.182	0.187	-2.7	104	0.00	11.61
85		1,2,3-Trichloropropane	0.220	0.224	-1.8	102	0.00	11.58
		----------	Amount	Calc.	%Drift	----------		
86		Cyclohexanone	200.000	188.235	5.9	101	0.00	11.64
87		4-Chlorotoluene	40.000	44.155	-10.4	102	0.00	11.70
88		tert-Butylbenzene	40.000	44.501	-11.3	104	0.00	11.87
89		1,2,4-Trimethylbenzene	40.000	44.841	-12.1	103	0.00	11.95
		----------	AvgRF	CCRF	%Dev	----------		
90		Pentachloroethane	0.543	0.612	-12.7	105	0.00	11.91
		----------	Amount	Calc.	%Drift	----------		
91		sec-Butylbenzene	40.000	45.972	-14.9	104	0.00	12.05
92		4-Isopropyltoluene	40.000	44.396	-11.0	102	0.00	12.19
		----------	AvgRF	CCRF	%Dev	----------		
93		1,3-Dichlorobenzene	1.644	1.796	-9.2	104	0.00	12.31
94		1,4-Dichlorobenzene	1.593	1.689	-6.0	100	0.00	12.40
		----------	Amount	Calc.	%Drift	----------		
95		n-Butylbenzene	40.000	44.517	-11.3	104	0.00	12.64
96		Benzyl Chloride	40.000	43.130	-7.8	109	0.00	12.65
		----------	AvgRF	CCRF	%Dev	----------		
97		1,2-Dichlorobenzene	1.614	1.762	-9.2	104	0.00	12.84
98		1,2-Dibromo-3-Chloropropa	0.163	0.190	-16.6	112	0.00	13.65
99		Hexachlorobutadiene	0.672	0.745	-10.9	105	0.00	14.23
100		1,2,4-Trichlorobenzene	1.136	1.292	-13.7	105	0.00	14.27
		----------	Amount	Calc.	%Drift	----------		
101		Naphthalene	40.000	47.303	-18.3	113	0.00	14.56
		----------	AvgRF	CCRF	%Dev	----------		
102		1,2,3-Trichlorobenzene	1.025	1.152	-12.4	105	0.00	14.72
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	105	0.00	4.52

Initial Calibration Verification

Job Number: FA31827 **Sample:** VC4540-ICV4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114016.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

104	Ethanol	0.088	0.083	5.7	103	-0.01	3.58
105	Acrolein	2.251	2.488	-10.5	114	0.00	4.02
106	Tert Butyl Alcohol	1.179	1.259	-6.8	107	-0.01	4.60
107	Isobutyl alcohol	0.206	0.197	4.4	98	0.00	6.65
108	Tert Amyl Alcohol	0.807	0.891	-10.4	111	0.00	6.76
		Amount	Calc.	%Drift			
109	1,4-Dioxane	800.000	829.717	-3.7	110	0.00	7.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0114012.D 030216APP9-C.m Wed Mar 02 13:19:20 2016

6.7.7

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Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4545-CC4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114145.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\030716\C0114145.D          Vial: 6
Acq On    :  7 Mar 2016   8:38 am                     Operator: ericp
Sample    : CC4540-5                                  Inst    : MSVOA5
Misc      : ms33203,vc4545,,,,,                       Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\2\METHODS\030216APP9-C.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Wed Mar 02 12:36:33 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	95	0.00	6.89
2		Dichlorodifluoromethane	0.618	0.595	3.7	81	0.00	2.21
3	P	Chloromethane	0.346	0.345	0.3	88	0.00	2.40
4	C	Vinyl Chloride	0.357	0.340	4.8	84	0.00	2.52
5		Bromomethane	0.255	0.221	13.3	86	0.00	2.86
6		Chloroethane	0.190	0.179	5.8	85	0.00	3.00
7		Trichlorofluoromethane	0.833	0.853	-2.4	90	0.00	3.15
8		Ethyl Ether	0.226	0.238	-5.3	95	0.00	3.44
9		1,2-Dichlorotrifluoroetha	0.380	0.387	-1.8	99	0.01	3.65
10	C	1,1-Dichloroethene	0.604	0.628	-4.0	96	0.00	3.67
11		Freon 113	0.394	0.390	1.0	94	0.00	3.71
12		Carbon Disulfide	0.923	0.927	-0.4	95	0.00	3.71
13		Iodomethane	0.691	0.669	3.2	89	0.00	3.82
14		Allyl chloride	0.178	0.180	-1.1	89	0.00	4.15
15		Methylene Chloride	0.415	0.421	-1.4	100	0.00	4.26
		----------	Amount	Calc.	%Drift		----------	
16		Acetone	200.000	220.862	-10.4	105	0.00	4.31
		----------	AvgRF	CCRF	%Dev		----------	
17		Methyl acetate	0.126	0.130	-3.2	100	0.00	4.42
18		trans-1,2-Dichloroethene	0.485	0.499	-2.9	96	0.00	4.42
19		Hexane	0.223	0.240	-7.6	98	0.00	4.48
20		Methyl Tert Butyl Ether	0.962	0.945	1.8	92	0.00	4.52
		----------	Amount	Calc.	%Drift		----------	
21		Acetonitrile	400.000	475.115	-18.8	113	0.00	4.80
		----------	AvgRF	CCRF	%Dev		----------	
22		Di-isopropyl ether	0.791	0.815	-3.0	95	0.00	4.88
23		Chloroprene	0.331	0.345	-4.2	94	0.00	5.02
24	P	1,1-Dichloroethane	0.605	0.638	-5.5	97	0.00	5.05
25		Acrylonitrile	0.065	0.065	0.0	100	0.00	5.11
26		ETBE	0.975	1.004	-3.0	94	0.00	5.25
27		Vinyl acetate	0.418	0.431	-3.1	101	0.00	5.28
28		cis-1,2-Dichloroethene	0.415	0.420	-1.2	95	0.00	5.60
29		2,2-Dichloropropane	0.487	0.521	-7.0	100	0.00	5.71
30		Bromochloromethane	0.199	0.202	-1.5	94	0.00	5.81
31		Cyclohexane	0.417	0.429	-2.9	95	0.00	5.81
32	C	Chloroform	0.820	0.836	-2.0	97	0.00	5.87
33		Ethyl acetate	0.154	0.156	-1.3	101	0.00	5.97

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4545-CC4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114145.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
34		Tetrahydrofuran	40.000	41.044	-2.6	99	0.00	6.05

			AvgRF	CCRF	%Dev			
35	S	Dibromofluoromethane	0.348	0.343	1.4	97	0.00	6.06
36		Carbon Tetrachloride	0.762	0.790	-3.7	96	0.00	6.02
37		1,1,1-Trichloroethane	0.780	0.826	-5.9	98	0.00	6.09
38		2-Butanone	0.075	0.075	0.0	99	0.00	6.19
39		1,1-Dichloropropene	0.514	0.527	-2.5	94	0.00	6.21
40		Propionitrile	0.024	0.025	-4.2	102	0.00	6.51
41		Methacrylonitrile	0.115	0.122	-6.1	101	0.00	6.52
42		Benzene	1.248	1.310	-5.0	97	0.00	6.48
43		TAME	0.854	0.866	-1.4	93	0.00	6.57
44	S	1,2-Dichloroethane-d4	0.469	0.478	-1.9	100	0.00	6.62
45		1,2-Dichloroethane	0.665	0.709	-6.6	100	0.00	6.69
46		Trichloroethene	0.401	0.413	-3.0	94	0.00	7.06
47		Methylcyclohexane	0.474	0.482	-1.7	91	0.00	7.05
48		Dibromomethane	0.242	0.251	-3.7	96	0.00	7.50
49	C	1,2-Dichloropropane	0.251	0.269	-7.2	95	0.00	7.60
50		Bromodichloromethane	0.566	0.586	-3.5	95	0.00	7.65

			Amount	Calc.	%Drift			
51		Methyl methacrylate	40.000	35.085	12.3	87	0.00	7.78
52		2-Chloroethyl vinyl ether	200.000	191.925	4.0	92	0.00	8.20
53		cis-1,3-Dichloropropene	40.000	39.613	1.0	92	0.00	8.28

			AvgRF	CCRF	%Dev			
54	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00	10.01
55	S	Toluene-d8	1.227	1.189	3.1	92	0.00	8.46
56	C	Toluene	1.532	1.606	-4.8	93	0.00	8.51

			Amount	Calc.	%Drift			
57		2-Nitropropane	200.000	202.212	-1.1	101	0.00	8.75

			AvgRF	CCRF	%Dev			
58		4-Methyl-2-pentanone	0.189	0.206	-9.0	100	0.00	8.87
59		trans-1,3-Dichloropropene	0.543	0.580	-6.8	96	0.00	8.92
60		Tetrachloroethene	0.521	0.483	7.3	89	0.00	8.90

			Amount	Calc.	%Drift			
61		Ethyl methacrylate	40.000	38.815	3.0	95	0.00	9.05

			AvgRF	CCRF	%Dev			
62		1,1,2-Trichloroethane	0.250	0.264	-5.6	97	0.00	9.09
63		Dibromochloromethane	0.502	0.520	-3.6	90	0.00	9.27
64		1,3-Dichloropropane	0.518	0.549	-6.0	93	0.00	9.37
65		1,2-Dibromoethane	0.353	0.364	-3.1	93	0.00	9.52

			Amount	Calc.	%Drift			
66		2-hexanone	200.000	206.698	-3.3	99	0.00	9.70
67		1-Chlorohexane	40.000	39.495	1.3	94	0.00	9.98

			AvgRF	CCRF	%Dev			
68	C	Ethylbenzene	1.781	1.879	-5.5	94	0.00	10.04
69	P	Chlorobenzene	1.041	1.085	-4.2	94	0.00	10.03
70		1,1,1,2-Tetrachloroethane	0.512	0.546	-6.6	92	0.00	10.09

			Amount	Calc.	%Drift			
71		m,p-Xylene	80.000	81.220	-1.5	96	0.00	10.18

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4545-CC4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114145.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

72		o-Xylene	40.000	43.357	-8.4	94	0.00	10.62
73		Styrene	40.000	40.997	-2.5	94	0.00	10.67
		----------	AvgRF	CCRF	%Dev	----------		
74	P	Bromoform	0.283	0.260	8.1	84	0.00	10.72
		----------	Amount	Calc.	%Drift	----------		
75		Isopropylbenzene	40.000	42.262	-5.7	91	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	12.38
77	S	4-Bromofluorobenzene	0.734	0.714	2.7	89	0.00	11.23
78		cis-1,4-Dichloro-2-butene	0.204	0.163	20.1#	70	0.00	11.29
79		n-Propylbenzene	3.311	3.696	-11.6	95	0.00	11.35
80		Bromobenzene	0.817	0.854	-4.5	92	0.00	11.35
81	P	1,1,2,2-Tetrachloroethane	0.597	0.632	-5.9	92	0.00	11.43
		----------	Amount	Calc.	%Drift	----------		
82		1,3,5-Trimethylbenzene	40.000	45.222	-13.1	92	0.00	11.54
		----------	AvgRF	CCRF	%Dev	----------		
83		2-Chlorotoluene	2.613	2.950	-12.9	94	0.00	11.53
84		trans-1,4-Dichloro-2-Bute	0.182	0.160	12.1	80	0.00	11.61
85		1,2,3-Trichloropropane	0.220	0.228	-3.6	93	0.00	11.58
		----------	Amount	Calc.	%Drift	----------		
86		Cyclohexanone	200.000	187.820	6.1	90	0.00	11.63
87		4-Chlorotoluene	40.000	45.012	-12.5	93	0.00	11.70
88		tert-Butylbenzene	40.000	44.436	-11.1	93	0.00	11.87
89		1,2,4-Trimethylbenzene	40.000	44.743	-11.9	92	0.00	11.95
		----------	AvgRF	CCRF	%Dev	----------		
90		Pentachloroethane	0.543	0.603	-11.0	92	0.00	11.91
		----------	Amount	Calc.	%Drift	----------		
91		sec-Butylbenzene	40.000	45.015	-12.5	91	0.00	12.05
92		4-Isopropyltoluene	40.000	43.717	-9.3	90	0.00	12.19
		----------	AvgRF	CCRF	%Dev	----------		
93		1,3-Dichlorobenzene	1.644	1.739	-5.8	90	0.00	12.30
94		1,4-Dichlorobenzene	1.593	1.644	-3.2	88	0.00	12.40
		----------	Amount	Calc.	%Drift	----------		
95		n-Butylbenzene	40.000	44.499	-11.2	93	0.00	12.63
96		Benzyl Chloride	40.000	40.311	-0.8	91	0.00	12.65
		----------	AvgRF	CCRF	%Dev	----------		
97		1,2-Dichlorobenzene	1.614	1.684	-4.3	89	0.00	12.84
98		1,2-Dibromo-3-Chloropropa	0.163	0.183	-12.3	97	0.00	13.65
99		Hexachlorobutadiene	0.672	0.629	6.4	79	0.00	14.23
100		1,2,4-Trichlorobenzene	1.136	1.157	-1.8	84	0.00	14.27
		----------	Amount	Calc.	%Drift	----------		
101		Naphthalene	40.000	43.320	-8.3	92	0.00	14.56
		----------	AvgRF	CCRF	%Dev	----------		
102		1,2,3-Trichlorobenzene	1.025	1.094	-6.7	89	0.00	14.72
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	97	0.00	4.52

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4545-CC4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114145.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

104	Ethanol	0.088	0.095	-8.0	110	-0.02	3.57
105	Acrolein	2.251	2.272	-0.9	96	0.00	4.01
106	Tert Butyl Alcohol	1.179	1.213	-2.9	96	0.00	4.60
107	Isobutyl alcohol	0.206	0.214	-3.9	99	0.00	6.65
108	Tert Amyl Alcohol	0.807	0.839	-4.0	96	0.00	6.76
		Amount	Calc.	%Drift			
109	1,4-Dioxane	800.000	686.525	14.2	84	0.00	7.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0114012.D 030216APP9-C.m Mon Mar 07 13:32:08 2016

6.7.8

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Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4545-ECC4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114170.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\030716\C0114170.D          Vial: 31
Acq On    :  7 Mar 2016   7:28 pm                     Operator: ericp
Sample    : ECC4540-5                                 Inst    : MSVOA5
Misc      : ms33211,vc4545,,,,,                       Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\2\METHODS\030216APP9-C.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Wed Mar 02 12:36:33 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	102	0.00	6.89
2		Dichlorodifluoromethane	0.618	0.546	11.7	80	0.00	2.21
3	P	Chloromethane	0.346	0.376	-8.7	103	0.00	2.41
4	C	Vinyl Chloride	0.357	0.403	-12.9	107	0.00	2.52
5		Bromomethane	0.255	0.242	5.1	101	0.00	2.86
6		Chloroethane	0.190	0.206	-8.4	106	0.00	3.00
7		Trichlorofluoromethane	0.833	0.907	-8.9	103	0.00	3.15
8		Ethyl Ether	0.226	0.259	-14.6	111	0.00	3.44
9		1,2-Dichlorotrifluoroetha	0.380	0.437	-15.0	120	0.01	3.65
10	C	1,1-Dichloroethene	0.604	0.649	-7.5	107	0.00	3.67
11		Freon 113	0.394	0.380	3.6	99	0.00	3.71
12		Carbon Disulfide	0.923	1.012	-9.6	111	0.00	3.71
13		Iodomethane	0.691	0.738	-6.8	106	0.00	3.83
14		Allyl chloride	0.178	0.172	3.4	92	0.00	4.15
15		Methylene Chloride	0.415	0.432	-4.1	110	0.00	4.26
		----------	Amount	Calc.	%Drift		----------	
16		Acetone	200.000	176.954	11.5	90	0.00	4.31
		----------	AvgRF	CCRF	%Dev		----------	
17		Methyl acetate	0.126	0.135	-7.1	112	0.00	4.42
18		trans-1,2-Dichloroethene	0.485	0.528	-8.9	109	0.00	4.43
19		Hexane	0.223	0.212	4.9	93	0.00	4.48
20		Methyl Tert Butyl Ether	0.962	1.004	-4.4	106	0.00	4.52
		----------	Amount	Calc.	%Drift		----------	
21		Acetonitrile	400.000	320.454	19.9	82	-0.01	4.79
		----------	AvgRF	CCRF	%Dev		----------	
22		Di-isopropyl ether	0.791	0.864	-9.2	108	0.00	4.88
23		Chloroprene	0.331	0.325	1.8	95	0.00	5.02
24	P	1,1-Dichloroethane	0.605	0.675	-11.6	110	0.00	5.05
25		Acrylonitrile	0.065	0.061	6.2	101	0.00	5.11
26		ETBE	0.975	1.044	-7.1	106	0.00	5.25
27		Vinyl acetate	0.418	0.415	0.7	104	0.00	5.28
28		cis-1,2-Dichloroethene	0.415	0.443	-6.7	108	0.00	5.60
29		2,2-Dichloropropane	0.487	0.506	-3.9	104	0.00	5.72
30		Bromochloromethane	0.199	0.218	-9.5	109	0.00	5.81
31		Cyclohexane	0.417	0.422	-1.2	100	0.00	5.81
32	C	Chloroform	0.820	0.873	-6.5	109	0.00	5.87
33		Ethyl acetate	0.154	0.150	2.6	105	0.00	5.97

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4545-ECC4540
Account: URSNCM AEOM, INC. **Lab FileID:** C0114170.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
34		Tetrahydrofuran	40.000	40.785	-2.0	105	0.00	6.05

			AvgRF	CCRF	%Dev			
35	S	Dibromofluoromethane	0.348	0.352	-1.1	107	0.00	6.06
36		Carbon Tetrachloride	0.762	0.818	-7.3	107	0.00	6.02
37		1,1,1-Trichloroethane	0.780	0.864	-10.8	110	0.00	6.10
38		2-Butanone	0.075	0.068	9.3	97	0.00	6.19
39		1,1-Dichloropropene	0.514	0.554	-7.8	107	0.00	6.21
40		Propionitrile	0.024	0.021	12.5	91	0.00	6.51
41		Methacrylonitrile	0.115	0.113	1.7	100	0.00	6.52
42		Benzene	1.248	1.343	-7.6	107	0.00	6.48
43		TAME	0.854	0.878	-2.8	101	0.00	6.57
44	S	1,2-Dichloroethane-d4	0.469	0.456	2.8	103	0.00	6.62
45		1,2-Dichloroethane	0.665	0.698	-5.0	106	0.00	6.69
46		Trichloroethene	0.401	0.426	-6.2	105	0.00	7.06
47		Methylcyclohexane	0.474	0.418	11.8	85	0.00	7.05
48		Dibromomethane	0.242	0.238	1.7	97	0.00	7.50
49	C	1,2-Dichloropropane	0.251	0.254	-1.2	97	0.00	7.60
50		Bromodichloromethane	0.566	0.577	-1.9	100	0.00	7.65

			Amount	Calc.	%Drift			
51		Methyl methacrylate	40.000	27.872	30.3	74	0.00	7.78
52		2-Chloroethyl vinyl ether	200.000	179.397	10.3	92	0.00	8.20
53		cis-1,3-Dichloropropene	40.000	36.376	9.1	91	0.00	8.28

			AvgRF	CCRF	%Dev			
54	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00	10.01
55	S	Toluene-d8	1.227	1.206	1.7	93	0.00	8.46
56	C	Toluene	1.532	1.693	-10.5	97	0.00	8.51

			Amount	Calc.	%Drift			
57		2-Nitropropane	200.000	186.035	7.0	92	0.00	8.76

			AvgRF	CCRF	%Dev			
58		4-Methyl-2-pentanone	0.189	0.223	-18.0	107	0.00	8.87
59		trans-1,3-Dichloropropene	0.543	0.532	2.0	87	0.00	8.92
60		Tetrachloroethene	0.521	0.517	0.8	94	0.00	8.90

			Amount	Calc.	%Drift			
61		Ethyl methacrylate	40.000	34.409	14.0	84	0.00	9.05

			AvgRF	CCRF	%Dev			
62		1,1,2-Trichloroethane	0.250	0.265	-6.0	96	0.00	9.09
63		Dibromochloromethane	0.502	0.513	-2.2	88	0.00	9.27
64		1,3-Dichloropropane	0.518	0.531	-2.5	89	0.00	9.37
65		1,2-Dibromoethane	0.353	0.334	5.4	85	0.00	9.52

			Amount	Calc.	%Drift			
66		2-hexanone	200.000	189.785	5.1	90	0.00	9.70
67		1-Chlorohexane	40.000	37.509	6.2	88	0.00	9.98

			AvgRF	CCRF	%Dev			
68	C	Ethylbenzene	1.781	1.955	-9.8	97	0.00	10.04
69	P	Chlorobenzene	1.041	1.126	-8.2	96	0.00	10.03
70		1,1,1,2-Tetrachloroethane	0.512	0.589	-15.0	99	0.00	10.09

			Amount	Calc.	%Drift			
71		m,p-Xylene	80.000	82.667	-3.3	96	0.00	10.18

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4545-ECC4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114170.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

72		o-Xylene	40.000	44.628	-11.6	96	0.00	10.62
73		Styrene	40.000	40.329	-0.8	91	0.00	10.67
		----------	AvgRF	CCRF	%Dev	----------		
74	P	Bromoform	0.283	0.243	14.1	78	0.00	10.72
		----------	Amount	Calc.	%Drift	----------		
75		Isopropylbenzene	40.000	44.230	-10.6	95	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00	12.38
77	S	4-Bromofluorobenzene	0.734	0.689	6.1	84	0.00	11.23
78		cis-1,4-Dichloro-2-butene	0.204	0.142	30.4	60	0.00	11.29
79		n-Propylbenzene	3.311	3.744	-13.1	94	0.00	11.35
80		Bromobenzene	0.817	0.873	-6.9	92	0.00	11.35
81	P	1,1,2,2-Tetrachloroethane	0.597	0.619	-3.7	88	0.00	11.43
		----------	Amount	Calc.	%Drift	----------		
82		1,3,5-Trimethylbenzene	40.000	47.009	-17.5	94	0.00	11.54
		----------	AvgRF	CCRF	%Dev	----------		
83		2-Chlorotoluene	2.613	3.042	-16.4	95	0.00	11.53
84		trans-1,4-Dichloro-2-Bute	0.182	0.142	22.0	70	0.00	11.61
85		1,2,3-Trichloropropane	0.220	0.225	-2.3	90	0.00	11.58
		----------	Amount	Calc.	%Drift	----------		
86		Cyclohexanone	200.000	219.151	-9.6	103	0.00	11.64
87		4-Chlorotoluene	40.000	45.151	-12.9	92	0.00	11.70
88		tert-Butylbenzene	40.000	45.273	-13.2	93	0.00	11.87
89		1,2,4-Trimethylbenzene	40.000	45.776	-14.4	92	0.00	11.95
		----------	AvgRF	CCRF	%Dev	----------		
90		Pentachloroethane	0.543	0.609	-12.2	92	0.00	11.91
		----------	Amount	Calc.	%Drift	----------		
91		sec-Butylbenzene	40.000	44.753	-11.9	89	0.00	12.05
92		4-Isopropyltoluene	40.000	42.861	-7.2	86	0.00	12.19
		----------	AvgRF	CCRF	%Dev	----------		
93		1,3-Dichlorobenzene	1.644	1.736	-5.6	88	0.00	12.30
94		1,4-Dichlorobenzene	1.593	1.656	-4.0	86	0.00	12.40
		----------	Amount	Calc.	%Drift	----------		
95		n-Butylbenzene	40.000	40.889	-2.2	84	0.00	12.64
96		Benzyl Chloride	40.000	32.435	18.9	72	0.00	12.65
		----------	AvgRF	CCRF	%Dev	----------		
97		1,2-Dichlorobenzene	1.614	1.707	-5.8	88	0.00	12.84
98		1,2-Dibromo-3-Chloropropa	0.163	0.135	17.2	70	0.00	13.65
99		Hexachlorobutadiene	0.672	0.480	28.6	59	0.00	14.23
100		1,2,4-Trichlorobenzene	1.136	0.755	33.5	54	0.00	14.27
		----------	Amount	Calc.	%Drift	----------		
101		Naphthalene	40.000	22.817	43.0	48	0.00	14.56
		----------	AvgRF	CCRF	%Dev	----------		
102		1,2,3-Trichlorobenzene	1.025	0.576	43.8	46#	0.00	14.72
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	81	0.00	4.53

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4545-ECC4540
Account: URSNCM AECOM, INC. **Lab FileID:** C0114170.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

104	Ethanol	0.088	0.115	-30.7	110	-0.01	3.58
105	Acrolein	2.251	2.214	1.6	78	0.00	4.01
106	Tert Butyl Alcohol	1.179	1.161	1.5	76	-0.01	4.60
107	Isobutyl alcohol	0.206	0.216	-4.9	83	0.00	6.66
108	Tert Amyl Alcohol	0.807	0.787	2.5	75	0.00	6.76
		Amount	Calc.	%Drift			
109	1,4-Dioxane	800.000	500.563	37.4	51	0.00	7.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0114012.D 030216APP9-C.m Tue Mar 08 09:04:57 2016

6.7.9

6

Initial Calibration Summary

Job Number: FA31827 **Sample:** VC4546-ICC4546
Account: URSNCM AECOM, INC. **Lab FileID:** C0114182.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Response Factor Report MSVOA5

```
Method       : C:\msdchem\2\METHODS\030816APP9-C.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Tue Mar 08 12:38:33 2016
Response via : Initial Calibration

Calibration Files
1   =C0114178.D  2   =C0114179.D  3   =C0114180.D  4   =C0114181.D
5   =C0114182.D  6   =C0114183.D  7   =C0114184.D

   Compound             1     2     3     4     5     6     7     Avg   %RSD
-------------------------------------------------------------------------------

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.764 0.649 0.692 0.815 0.749 0.669 0.662 0.714   8.70
3)P Chloromethane     1.221 0.471 0.394 0.430 0.403 0.369 0.352 0.520  59.86
           ---- Linear regr., Force(0,0) ----  Coefficient =  0.9969
             Response Ratio = 0.00000 + 0.36558 *A

4)C Vinyl Chloride    0.433 0.356 0.404 0.435 0.422 0.395 0.385 0.404   7.00
5)  Bromomethane      0.326 0.286 0.279 0.282 0.273 0.242 0.245 0.276  10.16
6)  Chloroethane      0.256 0.221 0.216 0.228 0.215 0.197 0.184 0.217  10.61
7)  Trichlorofluorome 1.066 0.912 0.956 0.987 0.931 0.814 0.788 0.922  10.47
8)  Ethyl Ether       0.197 0.231 0.250 0.259 0.265 0.237 0.245 0.241   9.39
9)  1,2-Dichlorotrifl 0.406 0.422 0.433 0.421 0.415 0.373 0.363 0.405   6.55
10)C 1,1-Dichloroethen 0.567 0.699 0.682 0.682 0.668 0.596 0.589 0.640   8.50
11)  Freon 113        0.335 0.393 0.427 0.418 0.412 0.369 0.374 0.390   8.39
12)  Carbon Disulfide 0.970 1.052 1.027 1.034 1.011 0.918 0.919 0.990   5.56
13)  Iodomethane      0.631 0.722 0.703 0.728 0.719 0.670 0.689 0.695   5.03
14)  Allyl chloride   0.166 0.175 0.187 0.200 0.201 0.184 0.184 0.185   6.74
15)  Methylene Chlorid 0.557 0.483 0.466 0.460 0.442 0.389 0.388 0.455  12.82
16)  Acetone          0.101 0.081 0.076 0.070 0.070 0.060 0.065 0.075  18.09
           ---- Linear regr., Force(0,0) ----  Coefficient =  0.9952
             Response Ratio = 0.00000 + 0.06442 *A

17)  Methyl acetate   0.131 0.150 0.144 0.141 0.139 0.119 0.124 0.135   8.19
18)  trans-1,2-Dichlor 0.590 0.528 0.539 0.544 0.527 0.470 0.466 0.523   8.27
19)  Hexane           0.215 0.242 0.242 0.237 0.238 0.212 0.223 0.230   5.56
20)  Methyl Tert Butyl 0.773 0.952 0.951 0.976 1.005 0.897 0.935 0.927   8.15
21)  Acetonitrile     0.031 0.023 0.021 0.020 0.020 0.018 0.019 0.022  20.04
           ---- Linear regr., Force(0,0) ----  Coefficient =  0.9973
             Response Ratio = 0.00000 + 0.01883 *A

22)  Di-isopropyl ethe 0.666 0.742 0.810 0.856 0.860 0.779 0.782 0.785   8.61
23)  Chloroprene      0.226 0.284 0.328 0.354 0.354 0.332 0.329 0.315  14.50
24)P 1,1-Dichloroethan 0.634 0.715 0.700 0.692 0.671 0.601 0.586 0.657   7.69
25)  Acrylonitrile    0.070 0.079 0.073 0.073 0.071 0.063 0.067 0.071   6.81
26)  ETBE             0.798 0.964 1.005 1.044 1.047 0.946 0.937 0.963   8.85
27)  Vinyl acetate    0.430 0.459 0.463 0.468 0.456 0.405 0.401 0.440   6.42
28)  cis-1,2-Dichloroe 0.397 0.445 0.439 0.446 0.452 0.403 0.401 0.426   5.81
29)  2,2-Dichloropropa 0.494 0.569 0.579 0.555 0.545 0.463 0.429 0.519  11.09
30)  Bromochloromethan 0.198 0.212 0.223 0.228 0.218 0.191 0.192 0.209   7.32
31)  Cyclohexane      0.372 0.389 0.434 0.446 0.444 0.410 0.406 0.415   6.83
32)C Chloroform       0.874 1.001 0.934 0.904 0.887 0.784 0.751 0.876   9.78
33)  Ethyl acetate    0.156 0.170 0.162 0.160 0.159 0.147 0.151 0.158   4.76
34)  Tetrahydrofuran  0.062 0.051 0.039 0.039 0.042 0.037 0.040 0.044  20.84
           ---- Linear regr., Force(0,0) ----  Coefficient =  0.9961
             Response Ratio = 0.00000 + 0.03890 *A
```

Initial Calibration Summary

Job Number: FA31827 **Sample:** VC4546-ICC4546
Account: URSNCM AECOM, INC. **Lab FileID:** C0114182.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

```
35)S Dibromofluorometh 0.382 0.376 0.368 0.358 0.343 0.330 0.324 0.354   6.37
36)  Carbon Tetrachlor 0.467 0.586 0.668 0.646 0.664 0.605 0.595 0.605  11.44
37)  1,1,1-Trichloroet 0.700 0.841 0.870 0.844 0.829 0.732 0.707 0.789   9.21
38)  2-Butanone        0.080 0.081 0.076 0.077 0.080 0.070 0.074 0.077   5.08
39)  1,1-Dichloroprope 0.413 0.487 0.531 0.538 0.552 0.502 0.498 0.503   9.22
40)  Propionitrile     0.025 0.030 0.028 0.027 0.026 0.023 0.023 0.026   9.75
41)  Methacrylonitrile 0.107 0.127 0.127 0.125 0.120 0.108 0.103 0.117   8.92
42)  Benzene           1.222 1.320 1.355 1.369 1.353 1.219 1.169 1.287   6.31
43)  TAME              0.633 0.835 0.852 0.877 0.905 0.821 0.828 0.822  10.75
44)S 1,2-Dichloroethan 0.514 0.509 0.486 0.472 0.463 0.445 0.438 0.475   6.18
45)  1,2-Dichloroethan 0.677 0.715 0.714 0.707 0.697 0.632 0.602 0.678   6.56
46)  Trichloroethene   0.423 0.443 0.439 0.442 0.437 0.399 0.381 0.423   5.74
47)  Methylcyclohexane 0.327 0.400 0.473 0.491 0.497 0.449 0.458 0.442  13.62
48)  Dibromomethane    0.205 0.263 0.275 0.267 0.275 0.231 0.238 0.250  10.61
49)C 1,2-Dichloropropa 0.210 0.285 0.267 0.277 0.295 0.246 0.259 0.263  10.73
50)  Bromodichlorometh 0.421 0.588 0.577 0.578 0.609 0.531 0.530 0.548  11.52
51)  Methyl methacryla 0.009 0.032 0.037 0.043 0.048 0.048 0.054 0.039  38.37
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9944
              Response Ratio = 0.00000 + 0.05068 *A

52)  2-Chloroethyl vin       0.028 0.094 0.105 0.108 0.109 0.108 0.092  34.79
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.10761 *A

53)  cis-1,3-Dichlorop 0.249 0.386 0.464 0.488 0.501 0.477 0.474 0.434  20.64
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.47751 *A


54) I   Chlorobenzene-d5      ----------------ISTD---------------------
55)S Toluene-d8        1.204 1.167 1.163 1.195 1.226 1.219 1.267 1.206   3.00
56)C Toluene           1.142 1.477 1.538 1.607 1.646 1.549 1.510 1.496  11.11
57)  2-Nitropropane    0.049 0.064 0.077 0.083 0.092 0.090 0.096 0.079  21.72
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9975
              Response Ratio = 0.00000 + 0.09323 *A

58)  4-Methyl-2-pentan 0.116 0.163 0.202 0.210 0.216 0.190 0.192 0.184  18.69
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9966
              Response Ratio = 0.00000 + 0.19447 *A

59)  trans-1,3-Dichlor 0.329 0.468 0.527 0.572 0.555 0.555 0.554 0.509  16.96
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.55445 *A

60)  Tetrachloroethene 0.407 0.541 0.491 0.498 0.510 0.473 0.482 0.486   8.48
61)  Ethyl methacrylat 0.130 0.179 0.264 0.302 0.314 0.343 0.354 0.269  31.53
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9977
              Response Ratio = 0.00000 + 0.34311 *A

62)  1,1,2-Trichloroet 0.212 0.266 0.261 0.271 0.270 0.257 0.255 0.256   7.98
63)  Dibromochlorometh 0.301 0.418 0.447 0.485 0.510 0.500 0.514 0.454  16.75
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.50717 *A

64)  1,3-Dichloropropa 0.346 0.443 0.507 0.556 0.559 0.540 0.547 0.500  15.78
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.54547 *A

65)  1,2-Dibromoethane 0.280 0.315 0.332 0.373 0.377 0.364 0.365 0.344  10.58
66)  2-hexanone        0.049 0.083 0.114 0.126 0.130 0.124 0.126 0.107  28.15
```

Initial Calibration Summary

Job Number: FA31827 **Sample:** VC4546-ICC4546
Account: URSNCM AECOM, INC. **Lab FileID:** C0114182.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

```
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.12553 *A

67)  1-Chlorohexane    0.232 0.288 0.430 0.400 0.509 0.501 0.509 0.410  27.22
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9968
              Response Ratio = 0.00000 + 0.44058 *A + 0.03635 *A^2

68)C Ethylbenzene      1.480 1.706 1.865 1.917 1.927 1.767 1.696 1.765   8.93
69)P Chlorobenzene     0.922 1.055 1.073 1.125 1.116 1.056 1.034 1.054   6.38
70)  1,1,1,2-Tetrachlo 0.387 0.507 0.513 0.529 0.545 0.524 0.519 0.503  10.51
71)  m,p-Xylene        0.883 1.282 1.533 1.627 1.588 1.413 1.313 1.377  18.51
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9910
              Response Ratio = 0.00000 + 1.38204 *A

72)  o-Xylene          0.742 1.077 1.645 1.758 1.848 1.729 1.641 1.491  27.83
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9962
              Response Ratio = 0.00000 + 1.68786 *A

73)  Styrene           0.493 0.754 1.061 1.187 1.217 1.156 1.128 0.999  27.24
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9981
              Response Ratio = 0.00000 + 1.14378 *A

74)P Bromoform         0.186 0.215 0.241 0.254 0.267 0.270 0.283 0.245  13.96
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.27553 *A

75)  Isopropylbenzene  0.862 1.377 1.947 2.087 2.177 2.020 1.937 1.773  26.92
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9966
              Response Ratio = 0.00000 + 1.98682 *A


76) I   1,4-Dichlorobenzene-d ----------------ISTD----------------------
77)S 4-Bromofluorobenz 0.648 0.682 0.657 0.688 0.696 0.710 0.734 0.688   4.28
78)  cis-1,4-Dichloro- 0.149 0.181 0.192 0.210 0.207 0.216 0.213 0.195  12.23
79)  n-Propylbenzene   1.990 3.020 3.464 3.529 3.607 3.198 3.010 3.117  17.71
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9930
              Response Ratio = 0.00000 + 3.14577 *A

80)  Bromobenzene      0.626 0.844 0.830 0.864 0.855 0.797 0.802 0.803  10.19
81)P 1,1,2,2-Tetrachlo 0.530 0.689 0.646 0.651 0.675 0.608 0.605 0.629   8.52
82)  1,3,5-Trimethylbe 1.302 2.472 2.991 3.056 3.087 2.790 2.651 2.621  23.80
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9948
              Response Ratio = 0.00000 + 2.75138 *A

83)  2-Chlorotoluene   1.595 2.332 2.764 2.385 2.907 2.595 2.472 2.436  17.38
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9939
              Response Ratio = 0.00000 + 2.54693 *A

84)  trans-1,4-Dichlor 0.112 0.198 0.179 0.204 0.199 0.201 0.201 0.185  18.02
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.20059 *A

85)  1,2,3-Trichloropr 0.210 0.229 0.225 0.229 0.244 0.225 0.221 0.226   4.51
86)  Cyclohexanone     0.005 0.012 0.012 0.013 0.015 0.014 0.015 0.012  26.24
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9973
              Response Ratio = 0.00000 + 0.01435 *A

87)  4-Chlorotoluene   1.363 2.050 2.550 2.730 2.716 2.463 2.336 2.316  20.76
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9946
              Response Ratio = 0.00000 + 2.42449 *A
```

Initial Calibration Summary

Job Number: FA31827 **Sample:** VC4546-ICC4546
Account: URSNCM AECOM, INC. **Lab FileID:** C0114182.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

```
 88)  tert-Butylbenzene 0.878 1.407 1.983 2.002 2.108 1.931 1.847 1.736  25.37
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9961
               Response Ratio = 0.00000 + 1.90235 *A

 89)  1,2,4-Trimethylbe 1.187 2.288 2.954 3.076 3.101 2.822 2.658 2.584  26.20
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9943
               Response Ratio = 0.00000 + 2.76544 *A

 90)  Pentachloroethane 0.384 0.486 0.488 0.528 0.544 0.524 0.519 0.496  10.81
 91)  sec-Butylbenzene  1.370 2.513 3.303 3.373 3.523 3.188 3.022 2.899  25.83
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9948
               Response Ratio = 0.00000 + 3.13204 *A

 92)  4-Isopropyltoluen 1.179 2.099 3.064 3.170 3.320 2.996 2.839 2.667  28.69
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9944
               Response Ratio = 0.00000 + 2.94260 *A

 93)  1,3-Dichlorobenze 1.014 1.569 1.669 1.714 1.743 1.605 1.536 1.550  16.00
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9967
               Response Ratio = 0.00000 + 1.58344 *A

 94)  1,4-Dichlorobenze 1.399 1.607 1.619 1.667 1.680 1.557 1.517 1.578   6.17
 95)  n-Butylbenzene    0.737 1.116 1.566 1.639 1.726 1.581 1.528 1.413  25.16
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9966
               Response Ratio = 0.00000 + 1.56467 *A

 96)  Benzyl Chloride   0.177 0.252 0.292 0.302 0.331 0.295 0.301 0.278  18.15
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9976
               Response Ratio = 0.00000 + 0.30184 *A

 97)  1,2-Dichlorobenze 1.207 1.566 1.665 1.701 1.716 1.580 1.510 1.564  11.16
 98)  1,2-Dibromo-3-Chl 0.120 0.162 0.186 0.191 0.220 0.192 0.204 0.182  17.95
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9963
               Response Ratio = 0.00000 + 0.20092 *A

 99)  Hexachlorobutadie 0.453 0.519 0.547 0.589 0.595 0.549 0.563 0.545   8.87
100)  1,2,4-Trichlorobe 0.728 0.869 1.086 1.161 1.198 1.124 1.092 1.037  16.62
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9980
               Response Ratio = 0.00000 + 1.11247 *A

101)  Naphthalene       1.167 1.646 2.264 2.388 2.574 2.292 2.281 2.087  23.78
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9967
               Response Ratio = 0.00000 + 2.31317 *A

102)  1,2,3-Trichlorobe 0.787 0.965 1.087 1.125 1.183 1.040 1.038 1.032  12.44

103) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
104)  Ethanol           0.205 0.179 0.113 0.107 0.100 0.093 0.095 0.127  35.66
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9982
               Response Ratio = 0.00000 + 0.09594 *A

105)  Acrolein          1.903 2.042 2.147 2.273 2.326 2.352 2.111 2.165   7.54
106)  Tert Butyl Alcoho 0.909 1.216 1.130 1.231 1.215 1.232 1.211 1.163  10.11
107)  Isobutyl alcohol  0.221 0.213 0.205 0.200 0.203 0.218 0.195 0.208   4.67
108)  Tert Amyl Alcohol 0.633 0.746 0.773 0.830 0.845 0.864 0.809 0.786  10.00
109)  1,4-Dioxane       0.013 0.057 0.086 0.102 0.102 0.114 0.108 0.083  43.83
             ---- Linear regr., Force(0,0) ----  Coefficient =  0.9969
               Response Ratio = 0.00000 + 0.10841 *A
```

Initial Calibration Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: VC4546-ICC4546
Lab FileID: C0114182.D

(#) = Out of Range

030816APP9-C.m Tue Mar 08 13:13:17 2016

Initial Calibration Verification

Job Number: FA31827 **Sample:** VC4546-ICV4546
Account: URSNCM AECOM, INC. **Lab FileID:** C0114186.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\030816\C0114186.D Vial: 14
Acq On : 8 Mar 2016 12:16 pm Operator: ericp
Sample : ICV4546-5 Inst : MSVOA5
Misc : ms33211,vc4546,,,,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\METHODS\030816APP9-C.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue Mar 08 12:38:33 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	102	0.00	6.89
2		Dichlorodifluoromethane	0.714	0.623	12.7	85	0.00	2.21
			Amount	Calc.	%Drift			
3	P	Chloromethane	40.000	38.817	3.0	90	0.00	2.41
			AvgRF	CCRF	%Dev			
4	C	Vinyl Chloride	0.404	0.394	2.5	95	0.00	2.52
5		Bromomethane	0.276	0.273	1.1	102	0.00	2.86
6		Chloroethane	0.217	0.203	6.5	96	-0.01	3.00
7		Trichlorofluoromethane	0.922	0.909	1.4	100	0.02	3.16
8		Ethyl Ether	0.241	0.237	1.7	91	0.00	3.43
9		1,2-Dichlorotrifluoroetha	0.405	0.418	-3.2	103	0.01	3.65
10	C	1,1-Dichloroethene	0.640	0.634	0.9	97	0.00	3.66
11		Freon 113	0.390	0.361	7.4	89	0.00	3.71
12		Carbon Disulfide	0.990	0.930	6.1	94	0.00	3.71
13		Iodomethane	0.695	0.667	4.0	95	0.00	3.82
14		Allyl chloride	0.185	0.167	9.7	85	0.00	4.15
15		Methylene Chloride	0.455	0.426	6.4	98	0.00	4.26
			Amount	Calc.	%Drift			
16		Acetone	200.000	214.302	-7.2	101	0.00	4.30
			AvgRF	CCRF	%Dev			
17		Methyl acetate	0.135	0.133	1.5	98	0.00	4.42
18		trans-1,2-Dichloroethene	0.523	0.530	-1.3	103	0.00	4.42
19		Hexane	0.230	0.222	3.5	95	0.00	4.48
20		Methyl Tert Butyl Ether	0.927	0.933	-0.6	95	0.00	4.51
			Amount	Calc.	%Drift			
21		Acetonitrile	400.000	379.163	5.2	90	0.00	4.80
			AvgRF	CCRF	%Dev			
22		Di-isopropyl ether	0.785	0.815	-3.8	97	0.00	4.88
23		Chloroprene	0.315	0.332	-5.4	96	0.00	5.02
24	P	1,1-Dichloroethane	0.657	0.654	0.5	99	0.00	5.05
25		Acrylonitrile	0.071	0.070	1.4	100	0.00	5.11
26		ETBE	0.963	0.972	-0.9	95	0.00	5.25
27		Vinyl acetate	0.440	0.471	-7.0	105	0.00	5.28
28		cis-1,2-Dichloroethene	0.426	0.415	2.6	94	0.00	5.60
29		2,2-Dichloropropane	0.519	0.534	-2.9	100	0.00	5.71
30		Bromochloromethane	0.209	0.205	1.9	96	0.00	5.81

Initial Calibration Verification

Job Number: FA31827 **Sample:** VC4546-ICV4546
Account: URSNCM AECOM, INC. **Lab FileID:** C0114186.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

31		Cyclohexane	0.415	0.424	-2.2	97	0.00	5.81
32	C	Chloroform	0.876	0.854	2.5	98	0.00	5.87
33		Ethyl acetate	0.158	0.173	-9.5	111	0.00	5.96
			Amount	Calc.	%Drift			
34		Tetrahydrofuran	40.000	42.882	-7.2	102	0.00	6.04
			AvgRF	CCRF	%Dev			
35	S	Dibromofluoromethane	0.354	0.335	5.4	100	0.00	6.06
36		Carbon Tetrachloride	0.605	0.648	-7.1	100	0.00	6.02
37		1,1,1-Trichloroethane	0.789	0.766	2.9	94	0.00	6.09
38		2-Butanone	0.077	0.079	-2.6	101	0.00	6.18
39		1,1-Dichloropropene	0.503	0.542	-7.8	100	0.00	6.21
40		Propionitrile	0.026	0.026	0.0	102	0.00	6.51
41		Methacrylonitrile	0.117	0.122	-4.3	103	0.00	6.52
42		Benzene	1.287	1.293	-0.5	97	0.00	6.48
43		TAME	0.822	0.838	-1.9	95	0.00	6.57
44	S	1,2-Dichloroethane-d4	0.475	0.453	4.6	100	0.00	6.62
45		1,2-Dichloroethane	0.678	0.668	1.5	98	0.00	6.69
46		Trichloroethene	0.423	0.426	-0.7	100	0.00	7.06
47		Methylcyclohexane	0.442	0.486	-10.0	100	0.00	7.05
48		Dibromomethane	0.250	0.269	-7.6	100	0.00	7.50
49	C	1,2-Dichloropropane	0.263	0.280	-6.5	97	0.00	7.60
50		Bromodichloromethane	0.548	0.584	-6.6	98	0.00	7.65
			Amount	Calc.	%Drift			
51		Methyl methacrylate	40.000	49.351	-23.4#	134	0.00	7.78
52		2-Chloroethyl vinyl ether	200.000	220.134	-10.1	112	0.00	8.20
53		cis-1,3-Dichloropropene	40.000	41.470	-3.7	101	0.00	8.28
			AvgRF	CCRF	%Dev			
54	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00	10.01
55	S	Toluene-d8	1.206	1.242	-3.0	100	0.00	8.46
56	C	Toluene	1.496	1.625	-8.6	98	0.00	8.51
			Amount	Calc.	%Drift			
57		2-Nitropropane	200.000	202.804	-1.4	102	0.00	8.75
58		4-Methyl-2-pentanone	200.000	230.854	-15.4	103	0.00	8.87
59		trans-1,3-Dichloropropene	40.000	46.799	-17.0	116	0.00	8.92
			AvgRF	CCRF	%Dev			
60		Tetrachloroethene	0.486	0.497	-2.3	97	0.00	8.90
			Amount	Calc.	%Drift			
61		Ethyl methacrylate	40.000	37.440	6.4	102	0.00	9.05
			AvgRF	CCRF	%Dev			
62		1,1,2-Trichloroethane	0.256	0.276	-7.8	101	0.00	9.09
			Amount	Calc.	%Drift			
63		Dibromochloromethane	40.000	42.249	-5.6	104	0.00	9.27
64		1,3-Dichloropropane	40.000	42.362	-5.9	102	0.00	9.37
			AvgRF	CCRF	%Dev			
65		1,2-Dibromoethane	0.344	0.388	-12.8	102	0.00	9.52
			Amount	Calc.	%Drift			
66		2-hexanone	200.000	239.478	-19.7	115	0.00	9.70
67		1-Chlorohexane	40.000	44.621	-11.6	103	0.00	9.98

Initial Calibration Verification

Job Number: FA31827 **Sample:** VC4546-ICV4546
Account: URSNCM AECOM, INC. **Lab FileID:** C0114186.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			AvgRF	CCRF	%Dev			
68	C	Ethylbenzene	1.765	1.954	-10.7	101	0.00	10.04
69	P	Chlorobenzene	1.054	1.126	-6.8	100	0.00	10.03
70		1,1,1,2-Tetrachloroethane	0.503	0.559	-11.1	102	0.00	10.09

			Amount	Calc.	%Drift			
71		m,p-Xylene	80.000	93.286	-16.6	101	0.00	10.18
72		o-Xylene	40.000	44.592	-11.5	101	0.00	10.62
73		Styrene	40.000	43.396	-8.5	101	0.00	10.67
74	P	Bromoform	40.000	42.952	-7.4	110	0.00	10.72
75		Isopropylbenzene	40.000	44.093	-10.2	100	0.00	10.93

			AvgRF	CCRF	%Dev			
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	12.38
77	S	4-Bromofluorobenzene	0.688	0.716	-4.1	105	0.00	11.23
78		cis-1,4-Dichloro-2-butene	0.195	0.226	-15.9	112	0.00	11.29

			Amount	Calc.	%Drift			
79		n-Propylbenzene	40.000	46.354	-15.9	103	0.00	11.35

			AvgRF	CCRF	%Dev			
80		Bromobenzene	0.803	0.863	-7.5	103	0.00	11.35
81	P	1,1,2,2-Tetrachloroethane	0.629	0.643	-2.2	97	0.00	11.43

			Amount	Calc.	%Drift			
82		1,3,5-Trimethylbenzene	40.000	42.500	-6.3	97	0.00	11.54
83		2-Chlorotoluene	40.000	45.148	-12.9	101	0.00	11.53
84		trans-1,4-Dichloro-2-Bute	40.000	44.408	-11.0	115	0.00	11.61

			AvgRF	CCRF	%Dev			
85		1,2,3-Trichloropropane	0.226	0.235	-4.0	99	0.00	11.58

			Amount	Calc.	%Drift			
86		Cyclohexanone	200.000	203.960	-2.0	102	0.00	11.63
87		4-Chlorotoluene	40.000	45.553	-13.9	104	0.00	11.70
88		tert-Butylbenzene	40.000	42.198	-5.5	97	0.00	11.87
89		1,2,4-Trimethylbenzene	40.000	43.871	-9.7	100	0.00	11.95

			AvgRF	CCRF	%Dev			
90		Pentachloroethane	0.496	0.551	-11.1	104	0.00	11.91

			Amount	Calc.	%Drift			
91		sec-Butylbenzene	40.000	44.299	-10.7	101	0.00	12.05
92		4-Isopropyltoluene	40.000	42.904	-7.3	97	0.00	12.19
93		1,3-Dichlorobenzene	40.000	43.920	-9.8	102	0.00	12.30

			AvgRF	CCRF	%Dev			
94		1,4-Dichlorobenzene	1.578	1.669	-5.8	102	0.00	12.40

			Amount	Calc.	%Drift			
95		n-Butylbenzene	40.000	43.466	-8.7	101	0.00	12.63
96		Benzyl Chloride	40.000	42.469	-6.2	99	0.00	12.65

			AvgRF	CCRF	%Dev			
97		1,2-Dichlorobenzene	1.564	1.703	-8.9	101	0.00	12.84

			Amount	Calc.	%Drift			
98		1,2-Dibromo-3-Chloropropa	40.000	40.744	-1.9	95	0.00	13.65

Initial Calibration Verification

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: VC4546-ICV4546
Lab FileID: C0114186.D

			AvgRF	CCRF	%Dev			
99	Hexachlorobutadiene		0.545	0.558	-2.4	96	0.00	14.23
			Amount	Calc.	%Drift			
100	1,2,4-Trichlorobenzene		40.000	41.035	-2.6	97	0.00	14.27
101	Naphthalene		40.000	46.067	-15.2	106	0.00	14.56
			AvgRF	CCRF	%Dev			
102	1,2,3-Trichlorobenzene		1.032	1.130	-9.5	98	0.00	14.72
103	I Tert Butyl Alcohol-d10		1.000	1.000	0.0	100	0.00	4.52
			Amount	Calc.	%Drift			
104	Ethanol		800.000	726.294	9.2	87	-0.01	3.58
			AvgRF	CCRF	%Dev			
105	Acrolein		2.165	2.285	-5.5	98	0.00	4.01
106	Tert Butyl Alcohol		1.163	1.276	-9.7	105	-0.01	4.60
107	Isobutyl alcohol		0.208	0.205	1.4	101	0.00	6.66
108	Tert Amyl Alcohol		0.786	0.851	-8.3	101	0.00	6.76
			Amount	Calc.	%Drift			
109	1,4-Dioxane		800.000	828.745	-3.6	109	0.00	7.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0114182.D 030816APP9-C.m Tue Mar 08 13:13:04 2016

6.7.11

6

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4546-ECC4546
Account: URSNCM AECOM, INC. **Lab FileID:** C0114200.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\030816\C0114200.D          Vial: 28
Acq On    :  8 Mar 2016   6:19 pm                     Operator: ericp
Sample    : ECC4546-5                                 Inst    : MSVOA5
Misc      : ms33211,vc4546,,,,,                       Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\2\METHODS\030816APP9-C.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Tue Mar 08 12:38:33 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	105	0.00	6.89
2		Dichlorodifluoromethane	0.714	0.525	26.5	74	0.00	2.21
		----------	Amount	Calc.	%Drift		----------	
3	P	Chloromethane	40.000	39.197	2.0	93	0.00	2.40
		----------	AvgRF	CCRF	%Dev		----------	
4	C	Vinyl Chloride	0.404	0.391	3.2	97	0.00	2.51
5		Bromomethane	0.276	0.245	11.2	94	0.00	2.86
6		Chloroethane	0.217	0.204	6.0	100	0.00	3.00
7		Trichlorofluoromethane	0.922	0.809	12.3	91	0.00	3.15
8		Ethyl Ether	0.241	0.264	-9.5	104	0.00	3.43
9		1,2-Dichlorotrifluoroetha	0.405	0.402	0.7	102	0.00	3.64
10	C	1,1-Dichloroethene	0.640	0.631	1.4	99	0.00	3.66
11		Freon 113	0.390	0.373	4.4	95	0.00	3.71
12		Carbon Disulfide	0.990	0.972	1.8	101	0.00	3.71
13		Iodomethane	0.695	0.700	-0.7	102	0.00	3.82
14		Allyl chloride	0.185	0.169	8.6	89	0.00	4.15
15		Methylene Chloride	0.455	0.436	4.2	104	0.00	4.26
		----------	Amount	Calc.	%Drift		----------	
16		Acetone	200.000	210.678	-5.3	102	0.00	4.30
		----------	AvgRF	CCRF	%Dev		----------	
17		Methyl acetate	0.135	0.147	-8.9	111	0.00	4.41
18		trans-1,2-Dichloroethene	0.523	0.505	3.4	101	0.00	4.42
19		Hexane	0.230	0.218	5.2	96	0.00	4.48
20		Methyl Tert Butyl Ether	0.927	1.003	-8.2	105	0.00	4.51
		----------	Amount	Calc.	%Drift		----------	
21		Acetonitrile	400.000	405.109	-1.3	99	-0.01	4.79
		----------	AvgRF	CCRF	%Dev		----------	
22		Di-isopropyl ether	0.785	0.862	-9.8	105	0.00	4.88
23		Chloroprene	0.315	0.311	1.3	92	0.00	5.02
24	P	1,1-Dichloroethane	0.657	0.664	-1.1	104	0.00	5.05
25		Acrylonitrile	0.071	0.067	5.6	99	0.00	5.11
26		ETBE	0.963	1.039	-7.9	104	0.00	5.25
27		Vinyl acetate	0.440	0.419	4.8	96	0.00	5.28
28		cis-1,2-Dichloroethene	0.426	0.434	-1.9	101	0.00	5.60
29		2,2-Dichloropropane	0.519	0.499	3.9	96	0.00	5.71
30		Bromochloromethane	0.209	0.216	-3.3	104	0.00	5.81

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4546-ECC4546
Account: URSNCM AECOM, INC. **Lab FileID:** C0114200.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

31		Cyclohexane	0.415	0.404	2.7	95	0.00	5.81
32	C	Chloroform	0.876	0.857	2.2	101	0.00	5.87
33		Ethyl acetate	0.158	0.160	-1.3	106	0.00	5.96
			Amount	Calc.	%Drift			
34		Tetrahydrofuran	40.000	43.603	-9.0	106	0.00	6.04
			AvgRF	CCRF	%Dev			
35	S	Dibromofluoromethane	0.354	0.345	2.5	105	0.00	6.06
36		Carbon Tetrachloride	0.605	0.660	-9.1	104	0.00	6.02
37		1,1,1-Trichloroethane	0.789	0.795	-0.8	101	0.00	6.09
38		2-Butanone	0.077	0.082	-6.5	108	0.00	6.18
39		1,1-Dichloropropene	0.503	0.523	-4.0	99	0.00	6.21
40		Propionitrile	0.026	0.026	0.0	105	0.00	6.51
41		Methacrylonitrile	0.117	0.120	-2.6	105	0.00	6.52
42		Benzene	1.287	1.342	-4.3	104	0.00	6.48
43		TAME	0.822	0.883	-7.4	102	0.00	6.56
44	S	1,2-Dichloroethane-d4	0.475	0.466	1.9	106	0.00	6.62
45		1,2-Dichloroethane	0.678	0.684	-0.9	103	0.00	6.69
46		Trichloroethene	0.423	0.436	-3.1	105	0.00	7.06
47		Methylcyclohexane	0.442	0.446	-0.9	94	0.00	7.05
48		Dibromomethane	0.250	0.263	-5.2	101	0.00	7.50
49	C	1,2-Dichloropropane	0.263	0.286	-8.7	102	0.00	7.60
50		Bromodichloromethane	0.548	0.598	-9.1	103	0.00	7.65
			Amount	Calc.	%Drift			
51		Methyl methacrylate	40.000	38.917	2.7	109	0.00	7.78
52		2-Chloroethyl vinyl ether	200.000	232.507	-16.3	122	0.00	8.20
53		cis-1,3-Dichloropropene	40.000	42.229	-5.6	106	0.00	8.28
			AvgRF	CCRF	%Dev			
54	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00	10.01
55	S	Toluene-d8	1.206	1.165	3.4	103	0.00	8.46
56	C	Toluene	1.496	1.612	-7.8	106	0.00	8.51
			Amount	Calc.	%Drift			
57		2-Nitropropane	200.000	203.374	-1.7	112	0.00	8.75
58		4-Methyl-2-pentanone	200.000	228.751	-14.4	112	0.00	8.87
59		trans-1,3-Dichloropropene	40.000	40.008	-0.0	108	0.00	8.92
			AvgRF	CCRF	%Dev			
60		Tetrachloroethene	0.486	0.495	-1.9	105	0.00	8.90
			Amount	Calc.	%Drift			
61		Ethyl methacrylate	40.000	36.328	9.2	108	0.00	9.05
			AvgRF	CCRF	%Dev			
62		1,1,2-Trichloroethane	0.256	0.267	-4.3	107	0.00	9.09
			Amount	Calc.	%Drift			
63		Dibromochloromethane	40.000	39.148	2.1	105	0.00	9.27
64		1,3-Dichloropropane	40.000	40.628	-1.6	107	0.00	9.37
			AvgRF	CCRF	%Dev			
65		1,2-Dibromoethane	0.344	0.363	-5.5	104	0.00	9.52
			Amount	Calc.	%Drift			
66		2-hexanone	200.000	219.163	-9.6	115	0.00	9.70
67		1-Chlorohexane	40.000	42.110	-5.3	106	0.00	9.98

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4546-ECC4546
Account: URSNCM AECOM, INC. **Lab FileID:** C0114200.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			AvgRF	CCRF	%Dev			
68	C	Ethylbenzene	1.765	1.882	-6.6	106	0.00	10.04
69	P	Chlorobenzene	1.054	1.107	-5.0	108	0.00	10.03
70		1,1,1,2-Tetrachloroethane	0.503	0.538	-7.0	107	0.00	10.09

			Amount	Calc.	%Drift			
71		m,p-Xylene	80.000	88.669	-10.8	105	0.00	10.18
72		o-Xylene	40.000	42.862	-7.2	106	0.00	10.62
73		Styrene	40.000	41.494	-3.7	106	0.00	10.67
74	P	Bromoform	40.000	39.007	2.5	109	0.00	10.72
75		Isopropylbenzene	40.000	41.955	-4.9	104	0.00	10.93

			AvgRF	CCRF	%Dev			
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	12.38
77	S	4-Bromofluorobenzene	0.688	0.678	1.5	104	0.00	11.23
78		cis-1,4-Dichloro-2-butene	0.195	0.206	-5.6	107	0.00	11.29

			Amount	Calc.	%Drift			
79		n-Propylbenzene	40.000	44.928	-12.3	105	0.00	11.35

			AvgRF	CCRF	%Dev			
80		Bromobenzene	0.803	0.860	-7.1	108	0.00	11.35
81	P	1,1,2,2-Tetrachloroethane	0.629	0.674	-7.2	107	0.00	11.43

			Amount	Calc.	%Drift			
82		1,3,5-Trimethylbenzene	40.000	44.196	-10.5	105	0.00	11.54
83		2-Chlorotoluene	40.000	44.434	-11.1	104	0.00	11.53
84		trans-1,4-Dichloro-2-Bute	40.000	42.036	-5.1	113	0.00	11.61

			AvgRF	CCRF	%Dev			
85		1,2,3-Trichloropropane	0.226	0.234	-3.5	103	0.00	11.58

			Amount	Calc.	%Drift			
86		Cyclohexanone	200.000	248.545	-24.3	130	0.00	11.63
87		4-Chlorotoluene	40.000	44.392	-11.0	106	0.00	11.70
88		tert-Butylbenzene	40.000	42.525	-6.3	103	0.00	11.87
89		1,2,4-Trimethylbenzene	40.000	44.315	-10.8	106	0.00	11.95

			AvgRF	CCRF	%Dev			
90		Pentachloroethane	0.496	0.555	-11.9	109	0.00	11.91

			Amount	Calc.	%Drift			
91		sec-Butylbenzene	40.000	44.408	-11.0	106	0.00	12.05
92		4-Isopropyltoluene	40.000	43.414	-8.5	103	0.00	12.19
93		1,3-Dichlorobenzene	40.000	43.288	-8.2	105	0.00	12.30

			AvgRF	CCRF	%Dev			
94		1,4-Dichlorobenzene	1.578	1.636	-3.7	104	0.00	12.40

			Amount	Calc.	%Drift			
95		n-Butylbenzene	40.000	42.770	-6.9	104	0.00	12.64
96		Benzyl Chloride	40.000	38.447	3.9	94	0.00	12.65

			AvgRF	CCRF	%Dev			
97		1,2-Dichlorobenzene	1.564	1.716	-9.7	107	0.00	12.84

			Amount	Calc.	%Drift			
98		1,2-Dibromo-3-Chloropropa	40.000	40.937	-2.3	100	0.00	13.65

Continuing Calibration Summary

Job Number: FA31827 **Sample:** VC4546-ECC4546
Account: URSNCM AECOM, INC. **Lab FileID:** C0114200.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			AvgRF	CCRF	%Dev			
99	Hexachlorobutadiene		0.545	0.561	-2.9	101	0.00	14.23
			Amount	Calc.	%Drift			
100	1,2,4-Trichlorobenzene		40.000	41.972	-4.9	104	0.00	14.27
101	Naphthalene		40.000	42.774	-6.9	103	0.00	14.56
			AvgRF	CCRF	%Dev			
102	1,2,3-Trichlorobenzene		1.032	1.129	-9.4	102	0.00	14.72
103	I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	107	0.00	4.52
			Amount	Calc.	%Drift			
104	Ethanol		800.000	684.495	14.4	88	-0.01	3.58
			AvgRF	CCRF	%Dev			
105	Acrolein		2.165	1.684	22.2	77	0.00	4.01
106	Tert Butyl Alcohol		1.163	1.199	-3.1	105	-0.02	4.59
107	Isobutyl alcohol		0.208	0.210	-1.0	111	0.00	6.65
108	Tert Amyl Alcohol		0.786	0.774	1.5	98	-0.01	6.76
			Amount	Calc.	%Drift			
109	1,4-Dioxane		800.000	746.851	6.6	106	0.00	7.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0114182.D 030816APP9-C.m Wed Mar 09 06:57:16 2016

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GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59597-MB	L0685752.D	1	03/07/16	MV	03/05/16	OP59597	SL3795

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA31827-1, FA31827-2

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	10	2.5	ug/l	
98-86-2	Acetophenone	ND	5.0	0.71	ug/l	
1912-24-9	Atrazine	ND	5.0	0.63	ug/l	
100-52-7	Benzaldehyde	ND	25	5.0	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	0.50	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	5.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	52%	14-67%
4165-62-2	Phenol-d5	38%	10-50%
118-79-6	2,4,6-Tribromophenol	81%	33-118%
4165-60-0	Nitrobenzene-d5	82%	42-108%
321-60-8	2-Fluorobiphenyl	87%	40-106%
1718-51-0	Terphenyl-d14	93%	39-121%

Method Blank Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59597-MB	X044964.D	1	03/07/16	MV	03/05/16	OP59597	SX2009

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA31827-1, FA31827-2

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	10	2.5	ug/l	
59-50-7	4-Chloro-3-methyl Phenol	ND	5.0	0.74	ug/l	
95-57-8	2-Chlorophenol	ND	5.0	0.64	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	0.63	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	0.70	ug/l	
51-28-5	2,4-Dinitrophenol	ND	25	5.0	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.0	ug/l	
95-48-7	2-Methylphenol	ND	5.0	0.58	ug/l	
	3&4-Methylphenol	ND	5.0	1.1	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	0.62	ug/l	
100-02-7	4-Nitrophenol	ND	25	5.0	ug/l	
87-86-5	Pentachlorophenol	ND	25	5.0	ug/l	
108-95-2	Phenol	ND	5.0	0.50	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.91	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.0	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.86	ug/l	
83-32-9	Acenaphthene	ND	5.0	0.56	ug/l	
208-96-8	Acenaphthylene	ND	5.0	0.58	ug/l	
98-86-2	Acetophenone	ND	5.0	0.71	ug/l	
120-12-7	Anthracene	ND	5.0	0.61	ug/l	
1912-24-9	Atrazine	ND	5.0	0.63	ug/l	
100-52-7	Benzaldehyde	ND	25	5.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	5.0	0.50	ug/l	
50-32-8	Benzo(a)pyrene	ND	5.0	0.50	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	5.0	0.54	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	5.0	0.50	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	5.0	0.63	ug/l	
92-52-4	1,1'-Biphenyl	ND	5.0	0.50	ug/l	
101-55-3	4-Bromophenyl Phenyl Ether	ND	5.0	0.50	ug/l	
85-68-7	Butyl Benzyl Phthalate	ND	5.0	1.0	ug/l	
86-74-8	Carbazole	ND	5.0	0.56	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.72	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	5.0	0.68	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	5.0	0.69	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	5.0	0.69	ug/l	
91-58-7	2-Chloronaphthalene	ND	5.0	0.50	ug/l	

Method Blank Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59597-MB	X044964.D	1	03/07/16	MV	03/05/16	OP59597	SX2009

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA31827-1, FA31827-2

CAS No.	Compound	Result	RL	MDL	Units	Q
7005-72-3	4-Chlorophenyl Phenyl Ether	ND	5.0	0.58	ug/l	
218-01-9	Chrysene	ND	5.0	0.53	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	5.0	0.76	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.67	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.50	ug/l	
84-66-2	Diethyl Phthalate	ND	5.0	1.0	ug/l	
131-11-3	Dimethyl Phthalate	ND	5.0	1.0	ug/l	
84-74-2	Di-n-butyl Phthalate	ND	5.0	1.0	ug/l	
117-84-0	Di-n-octyl Phthalate	ND	5.0	1.0	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.63	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	5.0	0.58	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	5.0	1.0	ug/l	
206-44-0	Fluoranthene	ND	5.0	0.50	ug/l	
86-73-7	Fluorene	ND	5.0	0.65	ug/l	
118-74-1	Hexachlorobenzene	ND	5.0	0.55	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	5.0	1.0	ug/l	
67-72-1	Hexachloroethane	ND	5.0	0.51	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	5.0	0.50	ug/l	
78-59-1	Isophorone	ND	5.0	0.67	ug/l	
91-57-6	2-Methylnaphthalene	ND	5.0	0.56	ug/l	
91-20-3	Naphthalene	ND	5.0	0.50	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.70	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.75	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.72	ug/l	
98-95-3	Nitrobenzene	ND	5.0	0.66	ug/l	
621-64-7	N-Nitrosodi-n-propylamine	ND	5.0	0.58	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.70	ug/l	
85-01-8	Phenanthrene	ND	5.0	0.60	ug/l	
129-00-0	Pyrene	ND	5.0	0.55	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	5.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	52%	14-67%

Method Blank Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59597-MB	X044964.D	1	03/07/16	MV	03/05/16	OP59597	SX2009

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA31827-1, FA31827-2

CAS No.	Surrogate Recoveries		Limits
4165-62-2	Phenol-d5	36%	10-50%
118-79-6	2,4,6-Tribromophenol	105%	33-118%
4165-60-0	Nitrobenzene-d5	84%	42-108%
321-60-8	2-Fluorobiphenyl	76%	40-106%
1718-51-0	Terphenyl-d14	88%	39-121%

Blank Spike Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59597-BS2	L0685751.D	1	03/07/16	MV	03/05/16	OP59597	SL3795

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA31827-1, FA31827-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
98-86-2	Acetophenone	50	34.6	69	53-106
95-94-3	1,2,4,5-Tetrachlorobenzene	50	38.2	76	47-111

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	40%	14-67%
4165-62-2	Phenol-d5	28%	10-50%
118-79-6	2,4,6-Tribromophenol	75%	33-118%
4165-60-0	Nitrobenzene-d5	67%	42-108%
321-60-8	2-Fluorobiphenyl	64%	40-106%
1718-51-0	Terphenyl-d14	83%	39-121%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59597-BS	X044963.D	1	03/07/16	MV	03/05/16	OP59597	SX2009

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA31827-1, FA31827-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
105-60-2	Caprolactam	50	18.4	37	11-68
59-50-7	4-Chloro-3-methyl Phenol	50	45.1	90	54-103
95-57-8	2-Chlorophenol	50	36.9	74	52-98
120-83-2	2,4-Dichlorophenol	50	45.4	91	53-103
105-67-9	2,4-Dimethylphenol	50	38.1	76	43-90
51-28-5	2,4-Dinitrophenol	100	78.7	79	44-112
534-52-1	4,6-Dinitro-o-cresol	100	98.9	99	66-121
95-48-7	2-Methylphenol	50	33.3	67	43-90
	3&4-Methylphenol	100	61.1	61	36-88
88-75-5	2-Nitrophenol	50	48.7	97	53-102
100-02-7	4-Nitrophenol	100	60.1	60	18-62
87-86-5	Pentachlorophenol	100	94.7	95	61-115
108-95-2	Phenol	50	18.7	37	19-56
58-90-2	2,3,4,6-Tetrachlorophenol	50	44.4	89	62-110
95-95-4	2,4,5-Trichlorophenol	50	46.8	94	62-109
88-06-2	2,4,6-Trichlorophenol	50	44.8	90	59-107
83-32-9	Acenaphthene	50	43.7	87	61-107
208-96-8	Acenaphthylene	50	37.7	75	60-104
98-86-2	Acetophenone	50	36.9	74	53-106
120-12-7	Anthracene	50	42.7	85	65-108
1912-24-9	Atrazine	50	46.2	92	62-114
100-52-7	Benzaldehyde	50	52.8	106	36-129
56-55-3	Benzo(a)anthracene	50	45.2	90	66-111
50-32-8	Benzo(a)pyrene	50	45.8	92	62-107
205-99-2	Benzo(b)fluoranthene	50	45.8	92	65-114
191-24-2	Benzo(g,h,i)perylene	50	47.3	95	66-116
207-08-9	Benzo(k)fluoranthene	50	45.2	90	65-114
92-52-4	1,1'-Biphenyl	50	38.1	76	57-104
101-55-3	4-Bromophenyl Phenyl Ether	50	49.5	99	65-109
85-68-7	Butyl Benzyl Phthalate	50	42.8	86	65-112
86-74-8	Carbazole	50	41.1	82	59-113
106-47-8	4-Chloroaniline	50	39.8	80	49-105
111-91-1	bis(2-Chloroethoxy)methane	50	42.1	84	51-102
111-44-4	bis(2-Chloroethyl)ether	50	35.6	71	53-100
108-60-1	bis(2-Chloroisopropyl)ether	50	33.9	68	45-106
91-58-7	2-Chloronaphthalene	50	39.2	78	57-103

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59597-BS	X044963.D	1	03/07/16	MV	03/05/16	OP59597	SX2009

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA31827-1, FA31827-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
7005-72-3	4-Chlorophenyl Phenyl Ether	50	43.0	86	62-105
218-01-9	Chrysene	50	46.4	93	66-111
53-70-3	Dibenzo(a,h)anthracene	50	49.2	98	66-119
132-64-9	Dibenzofuran	50	38.4	77	61-106
91-94-1	3,3'-Dichlorobenzidine	50	48.2	96	46-117
84-66-2	Diethyl Phthalate	50	40.3	81	64-108
131-11-3	Dimethyl Phthalate	50	39.3	79	63-106
84-74-2	Di-n-butyl Phthalate	50	39.4	79	65-107
117-84-0	Di-n-octyl Phthalate	50	39.6	79	62-118
121-14-2	2,4-Dinitrotoluene	50	47.2	94	61-110
606-20-2	2,6-Dinitrotoluene	50	45.9	92	63-108
117-81-7	bis(2-Ethylhexyl)phthalate	50	44.3	89	61-117
206-44-0	Fluoranthene	50	39.2	78	63-106
86-73-7	Fluorene	50	44.1	88	62-108
118-74-1	Hexachlorobenzene	50	48.9	98	63-108
87-68-3	Hexachlorobutadiene	50	44.7	89	42-102
77-47-4	Hexachlorocyclopentadiene	50	37.0	74	39-102
67-72-1	Hexachloroethane	50	36.3	73	42-100
193-39-5	Indeno(1,2,3-cd)pyrene	50	48.6	97	64-119
78-59-1	Isophorone	50	40.2	80	43-87
91-57-6	2-Methylnaphthalene	50	41.0	82	51-102
91-20-3	Naphthalene	50	39.4	79	47-100
88-74-4	2-Nitroaniline	50	42.9	86	54-128
99-09-2	3-Nitroaniline	50	45.1	90	56-106
100-01-6	4-Nitroaniline	50	49.7	99	55-120
98-95-3	Nitrobenzene	50	41.2	82	50-104
621-64-7	N-Nitrosodi-n-propylamine	50	42.0	84	52-104
86-30-6	N-Nitrosodiphenylamine	50	44.0	88	64-108
85-01-8	Phenanthrene	50	43.0	86	66-110
129-00-0	Pyrene	50	40.9	82	64-113
95-94-3	1,2,4,5-Tetrachlorobenzene	50	44.2	88	47-111

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	48%	14-67%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59597-BS	X044963.D	1	03/07/16	MV	03/05/16	OP59597	SX2009

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA31827-1, FA31827-2

CAS No.	Surrogate Recoveries	BSP	Limits
4165-62-2	Phenol-d5	34%	10-50%
118-79-6	2,4,6-Tribromophenol	99%	33-118%
4165-60-0	Nitrobenzene-d5	77%	42-108%
321-60-8	2-Fluorobiphenyl	70%	40-106%
1718-51-0	Terphenyl-d14	84%	39-121%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59597-MS1	X044973.D	1	03/07/16	MV	03/05/16	OP59597	SX2009
OP59597-MSD1	X044974.D	1	03/07/16	MV	03/05/16	OP59597	SX2009
FA31863-3	X044972.D	1	03/07/16	MV	03/05/16	OP59597	SX2009

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA31827-1, FA31827-2

CAS No.	Compound	FA31863-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
105-60-2	Caprolactam	9.4	U	96.2	42.9	45	96.2	41.6	43	3	11-68/39
59-50-7	4-Chloro-3-methyl Phenol	4.7	U	96.2	78.2	81	96.2	78.3	81	0	54-103/23
95-57-8	2-Chlorophenol	4.7	U	96.2	59.1	61	96.2	60.5	63	2	52-98/25
120-83-2	2,4-Dichlorophenol	4.7	U	96.2	74.1	77	96.2	74.9	78	1	53-103/26
105-67-9	2,4-Dimethylphenol	4.7	U	96.2	66.7	69	96.2	67.7	70	1	43-90/27
51-28-5	2,4-Dinitrophenol	24	U	192	150	78	192	150	78	0	44-112/25
534-52-1	4,6-Dinitro-o-cresol	9.4	U	192	174	90	192	176	92	1	66-121/23
95-48-7	2-Methylphenol	4.7	U	96.2	57.1	59	96.2	57.8	60	1	43-90/28
	3&4-Methylphenol	4.7	U	192	107	56	192	107	56	0	36-88/28
88-75-5	2-Nitrophenol	4.7	U	96.2	76.5	80	96.2	79.3	82	4	53-102/29
100-02-7	4-Nitrophenol	24	U	192	121	63*	192	129	67*	6	18-62/33
87-86-5	Pentachlorophenol	24	U	192	171	89	192	171	89	0	61-115/26
108-95-2	Phenol	4.7	U	96.2	36.9	38	96.2	34.9	36	6	19-56/35
58-90-2	2,3,4,6-Tetrachlorophenol	4.7	U	96.2	80.8	84	96.2	78.1	81	3	62-110/22
95-95-4	2,4,5-Trichlorophenol	4.7	U	96.2	84.8	88	96.2	80.8	84	5	62-109/22
88-06-2	2,4,6-Trichlorophenol	4.7	U	96.2	78.8	82	96.2	78.4	82	1	59-107/23
83-32-9	Acenaphthene	4.7	U	96.2	78.1	81	96.2	77.6	81	1	61-107/22
208-96-8	Acenaphthylene	4.7	U	96.2	68.2	71	96.2	68.8	72	1	60-104/22
98-86-2	Acetophenone	4.7	U	96.2	60.6	63	96.2	63.5	66	5	53-106/27
120-12-7	Anthracene	4.7	U	96.2	79.3	82	96.2	81.8	85	3	65-108/20
1912-24-9	Atrazine	4.7	U	96.2	82.9	86	96.2	84.0	87	1	62-114/24
100-52-7	Benzaldehyde	24	U	96.2	72.6	76	96.2	71.1	74	2	36-129/29
56-55-3	Benzo(a)anthracene	4.7	U	96.2	80.9	84	96.2	81.6	85	1	66-111/22
50-32-8	Benzo(a)pyrene	4.7	U	96.2	82.4	86	96.2	82.0	85	0	62-107/23
205-99-2	Benzo(b)fluoranthene	4.7	U	96.2	82.7	86	96.2	81.8	85	1	65-114/23
191-24-2	Benzo(g,h,i)perylene	4.7	U	96.2	84.4	88	96.2	84.4	88	0	66-116/23
207-08-9	Benzo(k)fluoranthene	4.7	U	96.2	79.4	83	96.2	81.1	84	2	65-114/24
92-52-4	1,1'-Biphenyl	4.7	U	96.2	66.0	69	96.2	66.7	69	1	57-104/23
101-55-3	4-Bromophenyl Phenyl Ether	4.7	U	96.2	86.5	90	96.2	86.2	90	0	65-109/23
85-68-7	Butyl Benzyl Phthalate	4.7	U	96.2	75.3	78	96.2	78.4	82	4	65-112/24
86-74-8	Carbazole	4.7	U	96.2	75.2	78	96.2	76.2	79	1	59-113/21
106-47-8	4-Chloroaniline	4.7	U	96.2	60.2	63	96.2	51.4	53	16	49-105/27
111-91-1	bis(2-Chloroethoxy)methane	4.7	U	96.2	67.1	70	96.2	70.1	73	4	51-102/28
111-44-4	bis(2-Chloroethyl)ether	4.7	U	96.2	57.4	60	96.2	60.4	63	5	53-100/27
108-60-1	bis(2-Chloroisopropyl)ether	4.7	U	96.2	57.0	59	96.2	59.8	62	5	45-106/26
91-58-7	2-Chloronaphthalene	4.7	U	96.2	67.3	70	96.2	68.6	71	2	57-103/23

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59597-MS1	X044973.D	1	03/07/16	MV	03/05/16	OP59597	SX2009
OP59597-MSD1	X044974.D	1	03/07/16	MV	03/05/16	OP59597	SX2009
FA31863-3	X044972.D	1	03/07/16	MV	03/05/16	OP59597	SX2009

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA31827-1, FA31827-2

7.3.1

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CAS No.	Compound	FA31863-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
7005-72-3	4-Chlorophenyl Phenyl Ether	4.7 U		96.2	77.0	80	96.2	75.3	78	2	62-105/20
218-01-9	Chrysene	4.7 U		96.2	82.3	86	96.2	84.8	88	3	66-111/22
53-70-3	Dibenzo(a,h)anthracene	4.7 U		96.2	85.5	89	96.2	85.0	88	1	66-119/24
132-64-9	Dibenzofuran	4.7 U		96.2	69.1	72	96.2	69.7	72	1	61-106/21
91-94-1	3,3'-Dichlorobenzidine	4.7 U		96.2	71.0	74	96.2	67.0	70	6	46-117/29
84-66-2	Diethyl Phthalate	4.7 U		96.2	73.1	76	96.2	72.5	75	1	64-108/21
131-11-3	Dimethyl Phthalate	4.7 U		96.2	70.9	74	96.2	71.1	74	0	63-106/22
84-74-2	Di-n-butyl Phthalate	4.7 U		96.2	71.4	74	96.2	72.5	75	2	65-107/21
117-84-0	Di-n-octyl Phthalate	4.7 U		96.2	71.2	74	96.2	72.6	76	2	62-118/24
121-14-2	2,4-Dinitrotoluene	4.7 U		96.2	84.2	88	96.2	81.6	85	3	61-110/21
606-20-2	2,6-Dinitrotoluene	4.7 U		96.2	80.8	84	96.2	80.3	84	1	63-108/21
117-81-7	bis(2-Ethylhexyl)phthalate	4.7 U		96.2	77.2	80	96.2	80.7	84	4	61-117/23
206-44-0	Fluoranthene	4.7 U		96.2	71.5	74	96.2	72.2	75	1	63-106/21
86-73-7	Fluorene	4.7 U		96.2	80.4	84	96.2	80.6	84	0	62-108/20
118-74-1	Hexachlorobenzene	4.7 U		96.2	87.2	91	96.2	87.1	91	0	63-108/22
87-68-3	Hexachlorobutadiene	4.7 U		96.2	72.8	76	96.2	73.0	76	0	42-102/28
77-47-4	Hexachlorocyclopentadiene	4.7 U		96.2	63.5	66	96.2	65.6	68	3	39-102/29
67-72-1	Hexachloroethane	4.7 U		96.2	59.8	62	96.2	63.4	66	6	42-100/29
193-39-5	Indeno(1,2,3-cd)pyrene	4.7 U		96.2	87.5	91	96.2	86.3	90	1	64-119/24
78-59-1	Isophorone	4.7 U		96.2	66.5	69	96.2	67.9	71	2	43-87/25
91-57-6	2-Methylnaphthalene	2.1	J	96.2	69.8	70	96.2	70.2	71	1	51-102/26
91-20-3	Naphthalene	4.7		96.2	68.6	66	96.2	70.3	68	2	47-100/29
88-74-4	2-Nitroaniline	4.7 U		96.2	77.2	80	96.2	78.7	82	2	54-128/24
99-09-2	3-Nitroaniline	4.7 U		96.2	74.2	77	96.2	69.5	72	7	56-106/27
100-01-6	4-Nitroaniline	4.7 U		96.2	90.2	94	96.2	87.7	91	3	55-120/24
98-95-3	Nitrobenzene	4.7 U		96.2	68.0	71	96.2	70.2	73	3	50-104/28
621-64-7	N-Nitrosodi-n-propylamine	4.7 U		96.2	64.5	67	96.2	70.5	73	9	52-104/25
86-30-6	N-Nitrosodiphenylamine	4.7 U		96.2	78.3	81	96.2	79.5	83	2	64-108/23
85-01-8	Phenanthrene	4.7 U		96.2	78.7	82	96.2	79.6	83	1	66-110/21
129-00-0	Pyrene	4.7 U		96.2	73.8	77	96.2	77.1	80	4	64-113/23
95-94-3	1,2,4,5-Tetrachlorobenzene	4.7 U		96.2	73.3	76	96.2	73.0	76	0	47-111/27

CAS No.	Surrogate Recoveries	MS	MSD	FA31863-3	Limits
367-12-4	2-Fluorophenol	44%	43%	32%	14-67%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP59597-MS1	X044973.D	1	03/07/16	MV	03/05/16	OP59597	SX2009
OP59597-MSD1	X044974.D	1	03/07/16	MV	03/05/16	OP59597	SX2009
FA31863-3	X044972.D	1	03/07/16	MV	03/05/16	OP59597	SX2009

The QC reported here applies to the following samples: **Method:** SW846 8270D

FA31827-1, FA31827-2

CAS No.	Surrogate Recoveries	MS	MSD	FA31863-3	Limits
4165-62-2	Phenol-d5	34%	33%	22%	10-50%
118-79-6	2,4,6-Tribromophenol	89%	90%	106%	33-118%
4165-60-0	Nitrobenzene-d5	65%	67%		42-108%
321-60-8	2-Fluorobiphenyl	63%	64%		40-106%
1718-51-0	Terphenyl-d14	77%	78%		39-121%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: SL3775-DFTPP
Lab File ID: L0685321.D
Instrument ID: GCMSL
Injection Date: 01/21/16
Injection Time: 15:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	40266	38.8		Pass
68	Less than 2.0% of mass 69	370	0.36	(0.73) [a]	Pass
69	Mass 69 relative abundance	50348	48.5		Pass
70	Less than 2.0% of mass 69	235	0.23	(0.47) [a]	Pass
127	40.0 - 60.0% of mass 198	50894	49.0		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	103799	100.0		Pass
199	5.0 - 9.0% of mass 198	7492	7.22		Pass
275	10.0 - 30.0% of mass 198	29273	28.2		Pass
365	1.0 - 100.0% of mass 198	4187	4.03		Pass
441	Present, but less than mass 443	42	0.04	(0.24) [b]	Pass
442	40.0 - 100.0% of mass 198	89280	86.0		Pass
443	17.0 - 23.0% of mass 442	17725	17.1	(19.9) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL3775-IC3775	L0685322.D	01/21/16	16:14	00:15	Initial cal 5
SL3775-IC3775	L0685323.D	01/21/16	16:39	00:40	Initial cal 10
SL3775-IC3775	L0685324.D	01/21/16	17:03	01:04	Initial cal 25
SL3775-ICC3775	L0685325.D	01/21/16	17:28	01:29	Initial cal 50
SL3775-IC3775	L0685326.D	01/21/16	17:53	01:54	Initial cal 75
SL3775-IC3775	L0685327.D	01/21/16	18:17	02:18	Initial cal 100
SL3775-ICV3775	L0685328.D	01/21/16	18:42	02:43	Initial cal verification 50
SL3775-ICV3775	L0685329.D	01/21/16	19:07	03:08	Initial cal verification 50
OP59028-BS2	L0685330.D	01/21/16	19:31	03:32	Blank Spike
OP59028-MB	L0685331.D	01/21/16	19:56	03:57	Method Blank
FA30660-1	L0685332.D	01/21/16	20:20	04:21	(used for QC only; not part of job FA31827)
ZZZZZZ	L0685333.D	01/21/16	20:45	04:46	(unrelated sample)
ZZZZZZ	L0685334.D	01/21/16	21:10	05:11	(unrelated sample)
ZZZZZZ	L0685335.D	01/21/16	21:34	05:35	(unrelated sample)
ZZZZZZ	L0685336.D	01/21/16	21:59	06:00	(unrelated sample)
FA30711-1	L0685337.D	01/21/16	22:23	06:24	(used for QC only; not part of job FA31827)
OP59028-MS2	L0685338.D	01/21/16	22:48	06:49	Matrix Spike
OP59028-MSD2	L0685339.D	01/21/16	23:12	07:13	Matrix Spike Duplicate
ZZZZZZ	L0685340.D	01/21/16	23:37	07:38	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: SL3775-DFTPP
Lab File ID: L0685321.D
Instrument ID: GCMSL
Injection Date: 01/21/16
Injection Time: 15:59

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	L0685341.D	01/22/16	00:01	08:02	(unrelated sample)
ZZZZZZ	L0685342.D	01/22/16	00:26	08:27	(unrelated sample)
ZZZZZZ	L0685343.D	01/22/16	00:50	08:51	(unrelated sample)
ZZZZZZ	L0685344.D	01/22/16	01:14	09:15	(unrelated sample)
OP59073-BS2	L0685345.D	01/22/16	01:39	09:40	Blank Spike
OP59073-MB	L0685346.D	01/22/16	02:03	10:04	Method Blank
FA30742-1	L0685347.D	01/22/16	02:28	10:29	(used for QC only; not part of job FA31827)

Instrument Performance Check (DFTPP)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: SL3781-DFTPP
Lab File ID: L0685432.D
Instrument ID: GCMSL
Injection Date: 02/02/16
Injection Time: 09:08

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	19198	37.1		Pass
68	Less than 2.0% of mass 69	100	0.19	(0.41) [a]	Pass
69	Mass 69 relative abundance	24376	47.0		Pass
70	Less than 2.0% of mass 69	103	0.20	(0.42) [a]	Pass
127	40.0 - 60.0% of mass 198	25161	48.6		Pass
197	Less than 1.0% of mass 198	10	0.02		Pass
198	Base peak, 100% relative abundance	51810	100.0		Pass
199	5.0 - 9.0% of mass 198	3329	6.43		Pass
275	10.0 - 30.0% of mass 198	14591	28.2		Pass
365	1.0 - 100.0% of mass 198	2110	4.07		Pass
441	Present, but less than mass 443	33	0.06	(0.37) [b]	Pass
442	40.0 - 100.0% of mass 198	44910	86.7		Pass
443	17.0 - 23.0% of mass 442	8832	17.0	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL3781-IC3781	L0685433.D	02/02/16	09:23	00:15	Initial cal 5
SL3781-IC3781	L0685434.D	02/02/16	09:48	00:40	Initial cal 10
SL3781-IC3781	L0685435.D	02/02/16	10:13	01:05	Initial cal 25
SL3781-ICC3781	L0685436.D	02/02/16	10:38	01:30	Initial cal 50
SL3781-IC3781	L0685437.D	02/02/16	11:02	01:54	Initial cal 60
SL3781-IC3781	L0685438.D	02/02/16	11:27	02:19	Initial cal 75
SL3781-IC3781	L0685439.D	02/02/16	11:52	02:44	Initial cal 100
SL3781-ICV3781	L0685440.D	02/02/16	12:17	03:09	Initial cal verification 50
SL3781-ICV3781	L0685441.D	02/02/16	12:41	03:33	Initial cal verification 50
SL3781-ICV3781	L0685442.D	02/02/16	13:06	03:58	Initial cal verification 50
OP59178-BS	L0685443.D	02/02/16	13:31	04:23	Blank Spike
OP59178-MB	L0685444.D	02/02/16	13:56	04:48	Method Blank
FA30972-2	L0685445.D	02/02/16	14:21	05:13	(used for QC only; not part of job FA31827)
OP59178-MS	L0685446.D	02/02/16	14:46	05:38	Matrix Spike
OP59178-MSD	L0685447.D	02/02/16	15:10	06:02	Matrix Spike Duplicate
OP59159-BS	L0685448.D	02/02/16	15:35	06:27	Blank Spike
OP59159-MB	L0685449.D	02/02/16	16:00	06:52	Method Blank
ZZZZZZ	L0685450.D	02/02/16	16:24	07:16	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: SL3795-DFTPP
Lab File ID: L0685746.D
Instrument ID: GCMSL
Injection Date: 03/07/16
Injection Time: 14:42

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	23746	38.8		Pass
68	Less than 2.0% of mass 69	126	0.21	(0.44) [a]	Pass
69	Mass 69 relative abundance	28896	47.2		Pass
70	Less than 2.0% of mass 69	126	0.21	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	28336	46.3		Pass
197	Less than 1.0% of mass 198	111	0.18		Pass
198	Base peak, 100% relative abundance	61203	100.0		Pass
199	5.0 - 9.0% of mass 198	4505	7.36		Pass
275	10.0 - 30.0% of mass 198	16488	26.9		Pass
365	1.0 - 100.0% of mass 198	2181	3.56		Pass
441	Present, but less than mass 443	3368	5.50	(29.7) [b]	Pass
442	40.0 - 100.0% of mass 198	57646	94.2		Pass
443	17.0 - 23.0% of mass 442	11349	18.5	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL3795-CC3775	L0685747.D	03/07/16	14:57	00:15	Continuing cal 50
OP59563-BS2	L0685748.D	03/07/16	15:22	00:40	Blank Spike
OP59563-MB	L0685749.D	03/07/16	15:47	01:05	Method Blank
ZZZZZZ	L0685750.D	03/07/16	16:11	01:29	(unrelated sample)
OP59597-BS2	L0685751.D	03/07/16	16:36	01:54	Blank Spike
OP59597-MB	L0685752.D	03/07/16	17:01	02:19	Method Blank
FA31835-1	L0685753.D	03/07/16	17:26	02:44	(used for QC only; not part of job FA31827)
OP59597-MS2	L0685754.D	03/07/16	17:50	03:08	Matrix Spike
OP59597-MSD2	L0685755.D	03/07/16	18:15	03:33	Matrix Spike Duplicate
ZZZZZZ	L0685756.D	03/07/16	18:40	03:58	(unrelated sample)
SL3795-ECC3775	L0685757.D	03/07/16	19:05	04:23	Ending cal 50

Instrument Performance Check (DFTPP)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: SL3797-DFTPP
Lab File ID: L0685815.D
Instrument ID: GCMSL
Injection Date: 03/10/16
Injection Time: 13:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	18999	42.4		Pass
68	Less than 2.0% of mass 69	22	0.05	(0.10) [a]	Pass
69	Mass 69 relative abundance	22569	50.4		Pass
70	Less than 2.0% of mass 69	104	0.23	(0.46) [a]	Pass
127	40.0 - 60.0% of mass 198	21870	48.8		Pass
197	Less than 1.0% of mass 198	63	0.14		Pass
198	Base peak, 100% relative abundance	44807	100.0		Pass
199	5.0 - 9.0% of mass 198	3188	7.11		Pass
275	10.0 - 30.0% of mass 198	11539	25.8		Pass
365	1.0 - 100.0% of mass 198	1982	4.42		Pass
441	Present, but less than mass 443	188	0.42	(2.49) [b]	Pass
442	40.0 - 100.0% of mass 198	38398	85.7		Pass
443	17.0 - 23.0% of mass 442	7560	16.9	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SL3797-CC3781	L0685816.D	03/10/16	13:25	00:16	Continuing cal 50
SL3797-CC3781	L0685818.D	03/10/16	14:17	01:08	Continuing cal 25
OP59641-BS	L0685819.D	03/10/16	14:41	01:32	Blank Spike
OP59641-MB	L0685820.D	03/10/16	15:06	01:57	Method Blank
ZZZZZZ	L0685822.D	03/10/16	15:56	02:47	(unrelated sample)
ZZZZZZ	L0685823.D	03/10/16	16:20	03:11	(unrelated sample)
ZZZZZZ	L0685824.D	03/10/16	16:45	03:36	(unrelated sample)
ZZZZZZ	L0685825.D	03/10/16	17:10	04:01	(unrelated sample)
FA31963-1	L0685826.D	03/10/16	17:35	04:26	(used for QC only; not part of job FA31827)
OP59641-MS	L0685827.D	03/10/16	17:59	04:50	Matrix Spike
OP59641-MSD	L0685828.D	03/10/16	18:24	05:15	Matrix Spike Duplicate
ZZZZZZ	L0685829.D	03/10/16	18:49	05:40	(unrelated sample)
ZZZZZZ	L0685830.D	03/10/16	19:13	06:04	(unrelated sample)
ZZZZZZ	L0685831.D	03/10/16	19:38	06:29	(unrelated sample)
ZZZZZZ	L0685832.D	03/10/16	20:03	06:54	(unrelated sample)
FA31827-1	L0685833.D	03/10/16	20:27	07:18	WELL-1820 PINE
FA31827-2	L0685834.D	03/10/16	20:52	07:43	DUP-2
ZZZZZZ	L0685835.D	03/10/16	21:17	08:08	(unrelated sample)
ZZZZZZ	L0685836.D	03/10/16	21:41	08:32	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: SL3797-DFTPP
Lab File ID: L0685815.D
Instrument ID: GCMSL
Injection Date: 03/10/16
Injection Time: 13:09

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA31876-1	L0685837.D	03/10/16	22:06	08:57	(used for QC only; not part of job FA31827)
ZZZZZZ	L0685840.D	03/10/16	23:20	10:11	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: SX1995-DFTPP
Lab File ID: X044537.D
Instrument ID: GCMSX
Injection Date: 02/16/16
Injection Time: 08:55

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	107158	51.3		Pass
68	Less than 2.0% of mass 69	33	0.02	(0.03) [a]	Pass
69	Mass 69 relative abundance	95452	45.7		Pass
70	Less than 2.0% of mass 69	535	0.26	(0.56) [a]	Pass
127	40.0 - 60.0% of mass 198	104298	49.9		Pass
197	Less than 1.0% of mass 198	57	0.03		Pass
198	Base peak, 100% relative abundance	208958	100.0		Pass
199	5.0 - 9.0% of mass 198	14015	6.71		Pass
275	10.0 - 30.0% of mass 198	47757	22.9		Pass
365	1.0 - 100.0% of mass 198	3198	1.53		Pass
441	Present, but less than mass 443	3849	1.84	(13.8) [b]	Pass
442	40.0 - 100.0% of mass 198	142839	68.4		Pass
443	17.0 - 23.0% of mass 442	27875	13.3	(19.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX1995-IC1995	X044538.D	02/16/16	09:10	00:15	Initial cal 5
SX1995-IC1995	X044539.D	02/16/16	09:35	00:40	Initial cal 10
SX1995-IC1995	X044540.D	02/16/16	10:01	01:06	Initial cal 25
SX1995-ICC1995	X044541.D	02/16/16	10:26	01:31	Initial cal 50
SX1995-IC1995	X044542.D	02/16/16	10:52	01:57	Initial cal 60
SX1995-IC1995	X044543.D	02/16/16	11:17	02:22	Initial cal 75
SX1995-IC1995	X044544.D	02/16/16	11:43	02:48	Initial cal 100
SX1995-ICV1995	X044545.D	02/16/16	12:09	03:14	Initial cal verification 50
SX1995-ICV1995	X044546.D	02/16/16	12:34	03:39	Initial cal verification 50
SX1995-ICV1995	X044547.D	02/16/16	13:00	04:05	Initial cal verification 50
SX1995-ICV1995	X044549.D	02/16/16	16:25	07:30	Initial cal verification 25
SX1995-ICV1995	X044550.D	02/16/16	16:50	07:55	Initial cal verification 25
OP59326-BS	X044551.D	02/16/16	17:16	08:21	Blank Spike
ZZZZZZ	X044552.D	02/16/16	17:41	08:46	(unrelated sample)
SX1995-ECC1995	X044553.D	02/16/16	18:07	09:12	Ending cal 50

Instrument Performance Check (DFTPP)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: SX2009-DFTPP
Lab File ID: X044960.D
Instrument ID: GCMSX
Injection Date: 03/07/16
Injection Time: 11:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	50863	56.0		Pass
68	Less than 2.0% of mass 69	254	0.28	(0.53) [a]	Pass
69	Mass 69 relative abundance	48276	53.2		Pass
70	Less than 2.0% of mass 69	363	0.40	(0.75) [a]	Pass
127	40.0 - 60.0% of mass 198	48751	53.7		Pass
197	Less than 1.0% of mass 198	155	0.17		Pass
198	Base peak, 100% relative abundance	90793	100.0		Pass
199	5.0 - 9.0% of mass 198	7839	8.63		Pass
275	10.0 - 30.0% of mass 198	22149	24.4		Pass
365	1.0 - 100.0% of mass 198	2328	2.56		Pass
441	Present, but less than mass 443	535	0.59	(4.25) [b]	Pass
442	40.0 - 100.0% of mass 198	58041	63.9		Pass
443	17.0 - 23.0% of mass 442	12591	13.9	(21.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
SX2009-CC1995	X044961.D	03/07/16	11:47	00:15	Continuing cal 25
SX2009-CC1995	X044962.D	03/07/16	12:25	00:53	Continuing cal 25
OP59597-BS	X044963.D	03/07/16	12:50	01:18	Blank Spike
OP59597-MB	X044964.D	03/07/16	13:15	01:43	Method Blank
ZZZZZZ	X044965.D	03/07/16	13:41	02:09	(unrelated sample)
OP59601-BS	X044966.D	03/07/16	14:07	02:35	Blank Spike
OP59601-MB	X044967.D	03/07/16	14:32	03:00	Method Blank
OP59610-BS	X044968.D	03/07/16	14:57	03:25	Blank Spike
OP59610-MB	X044969.D	03/07/16	15:23	03:51	Method Blank
ZZZZZZ	X044970.D	03/07/16	15:48	04:16	(unrelated sample)
ZZZZZZ	X044971.D	03/07/16	16:14	04:42	(unrelated sample)
FA31863-3	X044972.D	03/07/16	16:39	05:07	(used for QC only; not part of job FA31827)
OP59597-MS1	X044973.D	03/07/16	17:05	05:33	Matrix Spike
OP59597-MSD1	X044974.D	03/07/16	17:30	05:58	Matrix Spike Duplicate
ZZZZZZ	X044975.D	03/07/16	17:56	06:24	(unrelated sample)
FA31922-1	X044976.D	03/07/16	18:21	06:49	(used for QC only; not part of job FA31827)
OP59610-MS	X044977.D	03/07/16	18:47	07:15	Matrix Spike
OP59610-MSD	X044978.D	03/07/16	19:12	07:40	Matrix Spike Duplicate
ZZZZZZ	X044979.D	03/07/16	19:38	08:06	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Sample: SX2009-DFTPP
Lab File ID: X044960.D
Instrument ID: GCMSX
Injection Date: 03/07/16
Injection Time: 11:32

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	X044980.D	03/07/16	20:03	08:31	(unrelated sample)
ZZZZZZ	X044981.D	03/07/16	20:29	08:57	(unrelated sample)
ZZZZZZ	X044982.D	03/07/16	20:54	09:22	(unrelated sample)

Semivolatile Internal Standard Area Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Check Std:	SL3795-CC3775	**Injection Date:**	03/07/16
Lab File ID:	L0685747.D	**Injection Time:**	14:57
Instrument ID:	GCMSL	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	117250	4.89	425078	6.02	267535	7.61	414663	8.93	512114	11.62	432595	14.03
Check Std [b]	141863	4.75	486131	5.88	326298	7.46	491532	8.77	629092	11.39	533734	13.69
Upper Limit [c]	283726	5.25	972262	6.38	652596	7.96	983064	9.27	1258184	11.89	1067468	14.19
Lower Limit [d]	70932	4.25	243066	5.38	163149	6.96	245766	8.27	314546	10.89	266867	13.19

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP59563-BS2 [e]	101518	4.75	329009	5.88	225895	7.45	342435	8.77	444940	11.38	418327	13.67
OP59563-MB	96565	4.75	342125	5.87	224433	7.46	386164	8.76	450074	11.38	423161	13.66
ZZZZZZ	87127	4.75	320763	5.88	202761	7.45	351923	8.76	429871	11.38	401467	13.67
OP59597-BS2	89721	4.75	302303	5.87	209229	7.46	328385	8.76	421135	11.38	410732	13.67
OP59597-MB	94800	4.75	320733	5.87	202994	7.46	342844	8.76	416412	11.38	389234	13.66
FA31835-1	96925	4.75	335780	5.88	201284	7.45	319192	8.76	405899	11.38	391187	13.66
OP59597-MS2	89094	4.75	286649	5.88	183351	7.46	281928	8.77	367697	11.38	352504	13.66
OP59597-MSD2	88515	4.75	291300	5.88	188607	7.45	286732	8.77	370768	11.38	359021	13.66
ZZZZZZ	99641	4.75	361631	5.88	218423	7.45	374919	8.76	446417	11.38	427727	13.67
SL3795-ECC3775	76613	4.75	271188	5.87	185598	7.46	279770	8.76	374232	11.38	304961	13.67

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SL3775-ICC3775 L0685325.D 01/21/16 17:28
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Insufficient sample for MS/MSD.

Semivolatile Internal Standard Area Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Check Std:	SL3797-CC3781	**Injection Date:**	03/10/16
Lab File ID:	L0685816.D	**Injection Time:**	13:25
Instrument ID:	GCMSL	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	128918	4.86	458715	5.99	297181	7.57	555625	8.89	586478	11.56	587364	13.93
Check Std [b]	140944	4.72	466105	5.86	316593	7.43	548513	8.74	566486	11.35	561811	13.62
Upper Limit [c]	281888	5.22	932210	6.36	633186	7.93	1097026	9.24	1132972	11.85	1123622	14.12
Lower Limit [d]	70472	4.22	233053	5.36	158297	6.93	274257	8.24	283243	10.85	280906	13.12

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP59641-BS	75796	4.72	257403	5.85	169356	7.43	295220	8.74	298548	11.34	284100	13.61
OP59641-MB	83503	4.72	304661	5.85	184464	7.43	310660	8.74	345546	11.34	323606	13.60
ZZZZZZ	89643	4.72	313414	5.85	192981	7.42	338524	8.73	344607	11.33	319763	13.61
ZZZZZZ	85922	4.72	316795	5.85	190012	7.43	311411	8.73	318113	11.33	284488	13.60
ZZZZZZ	84594	4.72	297711	5.85	178768	7.43	301605	8.74	326011	11.34	294352	13.60
ZZZZZZ	96740	4.72	345942	5.85	213250	7.42	325240	8.73	352242	11.34	317154	13.61
FA31963-1	95490	4.72	336458	5.85	209618	7.43	339434	8.73	359559	11.34	312224	13.61
OP59641-MS	85370	4.72	286349	5.85	179399	7.43	306477	8.74	301134	11.34	293372	13.61
OP59641-MSD	80143	4.72	268196	5.85	166586	7.43	285737	8.74	300170	11.34	283387	13.61
ZZZZZZ	82968	4.72	314390	5.85	189907	7.42	323683	8.73	355576	11.34	329006	13.61
ZZZZZZ	87040	4.72	320973	5.85	190238	7.43	312079	8.74	340999	11.34	304170	13.60
ZZZZZZ	84710	4.72	304734	5.85	189130	7.43	316147	8.73	343918	11.34	310624	13.60
ZZZZZZ	86248	4.72	315218	5.85	190524	7.43	319304	8.74	353383	11.34	307691	13.60
FA31827-1	89792	4.72	322961	5.85	202421	7.42	338325	8.73	382831	11.34	364198	13.60
FA31827-2	87712	4.72	318582	5.85	197120	7.43	336479	8.74	380782	11.34	359949	13.61
ZZZZZZ	87976	4.72	317857	5.85	193245	7.42	327556	8.73	368240	11.34	350863	13.61
ZZZZZZ	93504	4.72	325801	5.85	201593	7.43	351883	8.74	382978	11.34	366040	13.61
FA31876-1	86625	4.72	313742	5.85	192179	7.43	320475	8.74	372996	11.34	352648	13.60
ZZZZZZ	82216	4.72	294629	5.85	183635	7.43	314505	8.73	353508	11.33	336587	13.60

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SL3781-ICC3781 L0685436.D 02/02/16 10:38
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Internal Standard Area Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Check Std:	SX2009-CC1995	**Injection Date:**	03/07/16
Lab File ID:	X044961.D	**Injection Time:**	11:47
Instrument ID:	GCMSX	**Method:**	SW846 8270D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Initial Cal [a]	482952	5.05	1734448	6.16	1064624	7.72	1915567	9.04	2017101	11.81	1524299	14.46
Check Std [b]	339528	4.84	1058425	5.95	697093	7.50	1160637	8.82	1285940	11.47	1059961	13.95
Upper Limit [c]	679056	5.34	2116850	6.45	1394186	8.00	2321274	9.32	2571880	11.97	2119922	14.45
Lower Limit [d]	169764	4.34	529213	5.45	348547	7.00	580319	8.32	642970	10.97	529981	13.45

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP59597-BS	353102	4.85	1085884	5.95	731698	7.50	1218571	8.82	1330754	11.47	1107601	13.95
OP59597-MB	314991	4.84	962093	5.95	626121	7.50	1027952	8.82	1156740	11.46	969973	13.93
ZZZZZZ	329320	4.84	1024686	5.95	669367	7.50	1093590	8.82	1221263	11.46	1046344	13.94
OP59601-BS	355549	4.84	1091435	5.95	731124	7.50	1189615	8.82	1335491	11.47	1098920	13.94
OP59601-MB	313198	4.84	978770	5.95	629727	7.50	1028801	8.82	1155077	11.46	979365	13.94
OP59610-BS	347239	4.85	1056660	5.95	700676	7.50	1167574	8.82	1262119	11.47	1033080	13.94
OP59610-MB	356604	4.84	1061180	5.95	699108	7.50	1142489	8.82	1286188	11.46	1093752	13.94
ZZZZZZ	310982	4.85	1004089	5.95	619714	7.50	1000147	8.82	1119091	11.46	913058	13.93
ZZZZZZ	312810	4.84	968910	5.95	612895	7.50	1011885	8.81	1125695	11.45	944825	13.93
FA31863-3	318772	4.84	973185	5.95	643570	7.50	1067144	8.82	1191909	11.46	999901	13.93
OP59597-MS1	320904	4.85	998513	5.95	662676	7.50	1123073	8.82	1236099	11.47	1006684	13.94
OP59597-MSD1	310425	4.84	975904	5.95	635654	7.50	1057320	8.82	1135439	11.47	930531	13.94
ZZZZZZ	299474	4.84	926264	5.95	599799	7.50	986970	8.81	1108118	11.46	928796	13.93
FA31922-1	326314	4.84	993742	5.95	651658	7.50	1064191	8.81	1185535	11.46	986866	13.94
OP59610-MS	352420	4.85	1096470	5.95	724172	7.50	1192072	8.82	1304360	11.47	1028511	13.94
OP59610-MSD	356763	4.85	1101415	5.95	724556	7.50	1182002	8.82	1268232	11.47	1014840	13.94
ZZZZZZ	328134	4.84	1017383	5.95	657576	7.50	1074654	8.82	1137631	11.46	906834	13.94
ZZZZZZ	359633	4.84	1095189	5.95	718204	7.50	1167525	8.82	1260999	11.46	1021623	13.94
ZZZZZZ	274466	4.84	868298	5.95	557304	7.50	944270	8.82	893297	11.46	649293	13.94
ZZZZZZ	295153	4.85	923577	5.96	622533	7.51	1061203	8.83	955391	11.49	765257	13.98

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Initial Cal is: SX1995-ICC1995 X044541.D 02/16/16 10:26
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Semivolatile Surrogate Recovery Summary

Job Number: FA31827
Account: URSNCM AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Method: SW846 8270D **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
FA31827-1	L0685833.D	27	19	62	58	59	71
FA31827-2	L0685834.D	30	21	67	62	62	75
OP59597-BS	X044963.D	48	34	99	77	70	84
OP59597-BS2	L0685751.D	40	28	75	67	64	83
OP59597-MB	L0685752.D	52	38	81	82	87	93
OP59597-MB	X044964.D	52	36	105	84	76	88
OP59597-MS1	X044973.D	44	34	89	65	63	77
OP59597-MSD1	X044974.D	43	33	90	67	64	78

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	14-67%
S2 = Phenol-d5	10-50%
S3 = 2,4,6-Tribromophenol	33-118%
S4 = Nitrobenzene-d5	42-108%
S5 = 2-Fluorobiphenyl	40-106%
S6 = Terphenyl-d14	39-121%

Initial Calibration Summary

Job Number: FA31827 **Sample:** SL3775-ICC3775
Account: URSNCM AECOM, INC. **Lab FileID:** L0685325.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Response Factor Report MSBNA02

Method : C:\msdchem\1\METHODS\appIXDO.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Fri Jan 22 09:05:58 2016
Response via : Initial Calibration

Calibration Files
5 =L0685322.D 10 =L0685323.D 25 =L0685324.D 50 =L0685325.D
75 =L0685326.D 100 =L0685327.D

		Compound	5	10	25	50	75	100	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		2-Picoline	1.920	1.759	1.809	1.690	1.791	1.668	1.773	5.14
3)		N-Nitrosomethylethy	0.873	0.882	0.835	0.789	0.831	0.647	0.809	10.66
4)		Methyl methanesulfo	0.980	1.021	0.942	0.904	0.952	0.933	0.955	4.25
5)		N-Nitrosodiethylami	0.683	0.677	0.710	0.634	0.679	0.652	0.673	3.93
6)		Ethyl methanesulfon	1.339	1.331	1.276	1.231	1.321	1.256	1.292	3.43
7)	P	Benzaldehyde							0.000#	-1.00
8)	S	2-Fluorophenol	1.637	1.615	1.527	1.440	1.439	1.381	1.507	6.90
9)	S	Phenol-d5	1.968	1.859	1.767	1.602	1.654	1.558	1.735	9.17
10)		Pentachloroethane	0.707	0.645	0.640	0.639	0.654	0.636	0.654	4.13
11)		N-Nitrosopyrrolidin	0.493	0.584	0.618	0.585	0.658	0.622	0.593	9.47
12)	P	Acetophenone	2.256	2.158	2.207	2.093	2.204	2.127	2.174	2.73
13)		N-Nitrosomorpholine	0.772	0.831	0.799	0.738	0.795	0.736	0.778	4.81
14)		O-Toluidine	2.392	2.265	2.179	2.041	2.125	1.983	2.164	6.91
15)	I	Naphthalene-d8	----------ISTD----------							
16)	S	Nitrobenzene-d5	0.556	0.494	0.493	0.485	0.472	0.471	0.495	6.33
17)		N-Nitrosopiperidine	0.301	0.282	0.273	0.263	0.265	0.264	0.275	5.34
18)		A,A-Dimethylpheneth	0.750	0.841	0.880	0.889	0.915	0.912	0.865	7.19
19)		Hexachloropropene	0.302	0.294	0.294	0.296	0.289	0.295	0.295	1.47
20)		N-Nitrosodi-n-butyl	0.281	0.267	0.276	0.265	0.262	0.264	0.269	2.86
21)		p-Phenylenediamine	0.296	0.394	0.381	0.349	0.312	0.289	0.337	13.28
22)	P	Caprolactam							0.000#	-1.00
23)		Isosafrole	0.313	0.304	0.293	0.284	0.294	0.303	0.299	3.40
24)	P	1,2,4,5-Tetrachloro	0.428	0.407	0.392	0.385	0.387	0.387	0.398	4.28
25)	I	Acenaphthene-d10	----------ISTD----------							
26)	S	2-Fluorobiphenyl	1.427	1.388	1.354	1.278	1.226	1.195	1.311	7.06
27)	P	1,1'-Biphenyl							0.000#	-1.00
28)		Safrole	0.503	0.484	0.481	0.450	0.465	0.458	0.473	4.13
29)		1-Chloronaphthalene	1.121	1.034	1.020	0.967	0.965	0.950	1.010	6.33
30)		Diphenyl Ether							0.000	-1.00
31)		1,4-Naphthoquinone	0.459	0.457	0.440	0.394	0.386	0.317	0.409	13.37
32)		Pentachlorobenzene	0.573	0.557	0.570	0.560	0.563	0.571	0.566	1.18
33)		1-Naphthylamine	1.077	1.137	1.085	1.043	1.016	0.982	1.057	5.20
34)		2-Naphthylamine	0.934	1.134	1.067	1.024	1.014	0.983	1.026	6.72
35)		5-Nitro-o-toluidine	0.335	0.347	0.379	0.365	0.374	0.370	0.362	4.69
36)	I	Phenanthrene-d10	----------ISTD----------							
37)	S	2,4,6-Tribromopheno	0.148	0.133	0.141	0.140	0.150	0.153	0.144	5.23
38)		1,3,5-Trinitrobenze	0.239	0.254	0.296	0.318	0.334	0.337	0.296	14.04
39)		Diallate	0.423	0.399	0.400	0.280	0.278	0.263	0.340	21.71
		---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9900								
		Response Ratio = 0.00000 + 0.35400 *A + -0.03810 *A^2								
40)		Phenacetin	0.488	0.470	0.466	0.442	0.461	0.445	0.462	3.63

Initial Calibration Summary

Job Number: FA31827 **Sample:** SL3775-ICC3775
Account: URSNCM AECOM, INC. **Lab FileID:** L0685325.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

```
41) P   Atrazine                                                0.000# -1.00
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.0363
              Response Ratio = 0.00000 + 0.00000 *A + 0.00000 *A^2

42)     4-aminobiphenyl     0.722 0.817 0.757 0.720 0.664 0.623 0.717   9.51
43)     Pentachloronitroben 0.142 0.138 0.137 0.132 0.137 0.137 0.137   2.20
44)     Pronamide           0.398 0.400 0.399 0.394 0.395 0.400 0.398   0.62
45)     4-Nitroquinoline 1- 0.090 0.092 0.123 0.132 0.134 0.127 0.116  17.14
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9979
              Response Ratio = 0.00000 + 0.13153 *A + -0.00106 *A^2

46)     Methapyrilene       0.313 0.310 0.313 0.294 0.245 0.277 0.292   9.21
47)     Isodrin             0.161 0.150 0.169 0.165 0.168 0.158 0.162   4.49

48) I   Chrysene-d12          ----------------ISTD---------------------
49) S   Terphenyl-d14        0.873 0.855 0.881 0.819 0.827 0.789 0.841   4.19
50)     Aramite             0.152 0.162 0.149 0.144 0.146 0.142 0.149   4.66
51)     p-(Dimethylamine)az 0.330 0.318 0.320 0.304 0.310 0.298 0.313   3.81
52)     Chlorobenzilate     0.376 0.379 0.375 0.351 0.362 0.348 0.365   3.68
53)     Kepone              0.105 0.121 0.118 0.120 0.122 0.120 0.117   5.52
54)     3,3'-Dimethylbenzid 0.365 0.342 0.368 0.381 0.398 0.380 0.372   5.02
55)     2-Acetylaminofluore 0.523 0.501 0.518 0.519 0.509 0.493 0.510   2.32

56) I   Perylene-d12          ----------------ISTD---------------------
57)     7,12-Dimethylbenz(a 0.612 0.627 0.662 0.642 0.637 0.616 0.633   2.91
58)     Hexachlorophene     0.020 0.018 0.038 0.053 0.064 0.073 0.045  50.84
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.03026 *A + 0.00173 *A^2

59)     3-Methylcholanthren 0.581 0.606 0.612 0.570 0.580 0.556 0.584   3.62
60)     Dibenz(a,j)acridine 0.920 0.955 0.977 0.950 0.969 0.974 0.957   2.23
-------------------------------------------------------------------------------
(#) = Out of Range

          appIXDO.m         Fri Jan 22 10:17:34 2016
```

7.7.1

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3775-ICV3775
Account: URSNCM AECOM, INC. **Lab FileID:** L0685328.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3775\L0685328.D          Vial: 10
Acq On    : 21 Jan 2016   6:42 pm                    Operator: marthav
Sample    : icv3775-50                               Inst    : MSBNA02
Misc      : op59028,sl3775,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\appIXDO.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Fri Jan 22 09:05:58 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	107	0.00	4.89
2		2-Picoline	50.000	49.492	1.0	111	0.00	3.21
3		N-Nitrosomethylethylamine	50.000	47.089	5.8	104	0.00	3.36
4		Methyl methanesulfonate	50.000	57.940	-15.9	131	0.00	3.66
5		N-Nitrosodiethylamine	50.000	48.389	3.2	110	0.00	4.00
6		Ethyl methanesulfonate	50.000	45.808	8.4	103	0.00	4.29
7	P	Benzaldehyde		----------NA----------				
8	S	2-Fluorophenol		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10		Pentachloroethane	50.000	47.341	5.3	104	0.00	4.64
11		N-Nitrosopyrrolidine	50.000	56.334	-12.7	123	-0.01	5.27
12	P	Acetophenone	50.000	46.288	7.4	103	0.00	5.28
13		N-Nitrosomorpholine	50.000	47.052	5.9	106	0.00	5.29
14		O-Toluidine	50.000	44.621	10.8	101	0.00	5.32
15	I	Naphthalene-d8	40.000	40.000	0.0	101	0.00	6.03
16	S	Nitrobenzene-d5		----------NA----------				
17		N-Nitrosopiperidine	50.000	47.762	4.5	101	0.00	5.55
18		A,A-Dimethylphenethylamin	50.000	51.813	-3.6	102	-0.51#	6.02
19		Hexachloropropene	50.000	51.369	-2.7	103	0.00	6.16
20		N-Nitrosodi-n-butylamine	50.000	50.927	-1.9	105	0.00	6.44
21		p-Phenylenediamine	50.000	60.914	-21.8#	119	-0.36	6.43
22	P	Caprolactam		----------NA----------				
23		Isosafrole	50.000	48.586	2.8	103	0.00	6.60
24	P	1,2,4,5-Tetrachlorobenzen	50.000	48.957	2.1	102	0.00	6.85
25	I	Acenaphthene-d10	40.000	40.000	0.0	112	0.00	7.61
26	S	2-Fluorobiphenyl		----------NA----------				
27	P	1,1'-Biphenyl		----------NA----------				
28		Safrole	50.000	47.814	4.4	113	0.00	7.06
29		1-Chloronaphthalene	50.000	44.436	11.1	104	0.00	7.13
30		Diphenyl Ether		----------NA----------				
31		1,4-Naphthoquinone	50.000	45.015	10.0	104	0.00	7.25
32		Pentachlorobenzene	50.000	44.394	11.2	100	0.00	7.80
33		1-Naphthylamine	50.000	44.591	10.8	101	0.00	7.86
34		2-Naphthylamine	50.000	47.035	5.9	105	0.00	7.92
35		5-Nitro-o-toluidine	50.000	45.548	8.9	101	0.00	8.13
36	I	Phenanthrene-d10	40.000	40.000	0.0	114	0.00	8.93
37	S	2,4,6-Tribromophenol		----------NA----------				
38		1,3,5-Trinitrobenzene	50.000	51.463	-2.9	110	0.00	8.49

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3775-ICV3775
Account: URSNCM AECOM, INC. **Lab FileID:** L0685328.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
39		Diallate	50.000	40.345	19.3	104	0.00	8.50
40		Phenacetin	50.000	44.092	11.8	105	0.00	8.53
41	P	Atrazine		NA				
42		4-aminobiphenyl	50.000	47.002	6.0	107	0.00	8.77
43		Pentachloronitrobenzene	50.000	43.226	13.5	103	0.00	8.89
44		Pronamide	50.000	44.098	11.8	102	0.00	8.87
45		4-Nitroquinoline 1-Oxide	50.000	46.710	6.6	106	0.00	9.66
46		Methapyrilene		NA				
47		Isodrin	50.000	47.162	5.7	106	0.00	9.90
48	I	Chrysene-d12	40.000	40.000	0.0	114	0.00	11.62
49	S	Terphenyl-d14		NA				
50		Aramite	50.000	47.409	5.2	112	0.00	10.49
51		p-(Dimethylamine)azobenze	50.000	45.981	8.0	108	0.00	10.56
52		Chlorobenzilate	50.000	47.090	5.8	112	0.00	10.62
53		Kepone	50.000	37.555	24.9#	84	0.00	10.94
54		3,3'-Dimethylbenzidine	50.000	86.289	-72.6#	192	0.00	10.92
55		2-Acetylaminofluorene	50.000	45.612	8.8	102	-0.01	11.25
56	I	Perylene-d12	40.000	40.000	0.0	128	-0.02	14.02
57		7,12-Dimethylbenz(a)anthr	50.000	39.567	20.9#	100	-0.01	13.38
58		Hexachlorophene		NA				
59		3-Methylcholanthrene	50.000	43.587	12.8	114	-0.03	14.68
60		Dibenz(a,j)acridine	50.000	41.462	17.1	107	-0.02	15.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0685325.D appIXDO.m Fri Jan 22 10:14:52 2016

7.7.2

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3775-ICV3775
Account: URSNCM AECOM, INC. **Lab FileID:** L0685329.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3775\L0685329.D          Vial: 11
Acq On    : 21 Jan 2016   7:07 pm                    Operator: marthav
Sample    : icv3775-50                               Inst    : MSBNA02
Misc      : op59028,sl3775,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\appIXDO.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Fri Jan 22 09:05:58 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	106	0.00	4.89
2		2-Picoline		----------NA----------				
3		N-Nitrosomethylethylamine		----------NA----------				
4		Methyl methanesulfonate		----------NA----------				
5		N-Nitrosodiethylamine		----------NA----------				
6		Ethyl methanesulfonate		----------NA----------				
7	P	Benzaldehyde		----------NA----------				
8	S	2-Fluorophenol		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10		Pentachloroethane		----------NA----------				
11		N-Nitrosopyrrolidine		----------NA----------				
12	P	Acetophenone		----------NA----------				
13		N-Nitrosomorpholine		----------NA----------				
14		O-Toluidine		----------NA----------				
15	I	Naphthalene-d8	40.000	40.000	0.0	106	0.00	6.03
16	S	Nitrobenzene-d5		----------NA----------				
17		N-Nitrosopiperidine		----------NA----------				
18		A,A-Dimethylphenethylamin		----------NA----------				
19		Hexachloropropene		----------NA----------				
20		N-Nitrosodi-n-butylamine		----------NA----------				
21		p-Phenylenediamine		----------NA----------				
22	P	Caprolactam		----------NA----------				
23		Isosafrole		----------NA----------				
24	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
25	I	Acenaphthene-d10	40.000	40.000	0.0	95	0.00	7.61
26	S	2-Fluorobiphenyl		----------NA----------				
27	P	1,1'-Biphenyl		----------NA----------				
28		Safrole		----------NA----------				
29		1-Chloronaphthalene		----------NA----------				
30		Diphenyl Ether		----------NA----------				
31		1,4-Naphthoquinone		----------NA----------				
32		Pentachlorobenzene		----------NA----------				
33		1-Naphthylamine		----------NA----------				
34		2-Naphthylamine		----------NA----------				
35		5-Nitro-o-toluidine		----------NA----------				
36	I	Phenanthrene-d10	40.000	40.000	0.0	117	0.00	8.93
37	S	2,4,6-Tribromophenol		----------NA----------				
38		1,3,5-Trinitrobenzene	50.000	41.529	16.9	91	0.00	8.49

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3775-ICV3775
Account: URSNCM AECOM, INC. **Lab FileID:** L0685329.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift		
39		Diallate		NA			
40		Phenacetin		NA			
41	P	Atrazine		NA			
42		4-aminobiphenyl		NA			
43		Pentachloronitrobenzene		NA			
44		Pronamide		NA			
45		4-Nitroquinoline 1-Oxide		NA			
46		Methapyrilene	50.000	79.395	-58.8#	185	-0.07 9.77
47		Isodrin		NA			
48	I	Chrysene-d12	40.000	40.000	0.0	110	0.00 11.62
49	S	Terphenyl-d14		NA			
50		Aramite		NA			
51		p-(Dimethylamine)azobenze		NA			
52		Chlorobenzilate		NA			
53		Kepone		NA			
54		3,3'-Dimethylbenzidine		NA			
55		2-Acetylaminofluorene		NA			
56	I	Perylene-d12	40.000	40.000	0.0	121	-0.02 14.02
57		7,12-Dimethylbenz(a)anthr		NA			
58		Hexachlorophene		NA			
59		3-Methylcholanthrene		NA			
60		Dibenz(a,j)acridine		NA			

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0685325.D appIXDO.m Fri Jan 22 10:14:53 2016

7.7.3

7

Initial Calibration Summary

Job Number: FA31827 **Sample:** SL3781-ICC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685436.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Response Factor Report MSBNA02

Method : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Tue Feb 02 15:08:12 2016
Response via : Initial Calibration

Calibration Files
5 =L0685433.D 10 =L0685434.D 25 =L0685435.D 50 =L0685436.D
60 =L0685437.D 75 =L0685438.D 100 =L0685439.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.671	0.758	0.744	0.798	0.826	0.797	0.796	0.770	6.71
3) N-nitrosodimethyl	0.731	0.895	0.879	0.923	0.915	0.866	0.874	0.869	7.40
4) Pyridine	1.744	1.915	1.978	2.104	2.064	1.994	1.917	1.959	6.03
5)P Benzaldehyde	1.381	1.420	1.353	1.204	1.074	0.936	0.727	1.156	22.36
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989									
Response Ratio = 0.00000 + 1.60546 *A + -0.35187 *A^2									
6) Aniline	2.702	2.689	2.527	2.571	2.569	2.525	2.430	2.573	3.73
7)S 2-Fluorophenol	1.676	1.754	1.721	1.738	1.750	1.687	1.622	1.707	2.81
8)P bis(2-Chloroethyl	1.610	1.522	1.348	1.441	1.400	1.372	1.354	1.435	6.83
9)S Phenol-d5	2.070	2.070	1.915	1.883	1.856	1.827	1.772	1.913	6.07
10)P Phenol	2.064	2.005	1.987	1.928	1.908	1.902	1.846	1.949	3.79
11)P 2-Chlorophenol	1.362	1.442	1.350	1.386	1.376	1.369	1.317	1.372	2.78
12) 1,3-Dichlorobenze	1.621	1.612	1.488	1.599	1.609	1.602	1.495	1.575	3.65
13) 1,4-Dichlorobenze	1.469	1.521	1.453	1.510	1.525	1.505	1.475	1.494	1.87
14) 1,2-Dichlorobenze	1.517	1.484	1.419	1.470	1.502	1.420	1.371	1.455	3.62
15) Benzyl alcohol	1.034	0.979	0.974	1.107	1.073	1.050	1.041	1.037	4.62
16)P bis(2-chloroisopr	1.367	1.407	1.346	1.326	1.349	1.315	1.258	1.338	3.46
17)P 2-Methylphenol	1.418	1.362	1.341	1.410	1.431	1.416	1.342	1.389	2.80
18)P Acetophenone	2.201	2.214	2.133	2.201	2.243	2.148	2.098	2.177	2.37
19)P Hexachloroethane	0.709	0.697	0.640	0.682	0.682	0.672	0.646	0.675	3.76
20)P N-Nitroso-di-n-pr	0.946	1.054	0.979	1.043	1.057	1.026	0.990	1.014	4.21
21)P 3&4-Methylphenol	1.421	1.404	1.354	1.437	1.452	1.431	1.375	1.410	2.50
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.571	0.563	0.553	0.548	0.548	0.546	0.531	0.551	2.33
24)P Nitrobenzene	0.537	0.501	0.508	0.483	0.482	0.473	0.462	0.492	5.13
25)P Isophorone	0.900	0.921	0.866	0.882	0.868	0.851	0.837	0.875	3.27
26)P 2-Nitrophenol	0.230	0.231	0.229	0.238	0.235	0.228	0.225	0.231	1.82
27)P 2,4-Dimethylpheno	0.489	0.470	0.460	0.455	0.452	0.446	0.436	0.458	3.78
28) O,O,O-Triethylpho	0.241	0.235	0.225	0.232	0.226	0.233	0.229	0.232	2.42
29)P bis(2-Chloroethox	0.657	0.666	0.655	0.655	0.641	0.651	0.620	0.649	2.27
30) Benzoic Acid	0.285	0.245	0.250	0.318	0.343	0.338	0.335	0.302	13.91
31)P 2,4-Dichloropheno	0.355	0.372	0.373	0.339	0.348	0.341	0.336	0.352	4.31
32) 1,2,4-Trichlorobe	0.434	0.434	0.399	0.412	0.414	0.408	0.392	0.413	3.87
33) alpha-Terpineol								0.000	-1.00
34)P Naphthalene	1.044	1.047	1.023	0.975	0.976	0.946	0.924	0.991	4.88
35)P 4-Chloroaniline	0.462	0.467	0.475	0.482	0.494	0.494	0.477	0.478	2.59
36) 2,6-Dichloropheno	0.337	0.342	0.348	0.351	0.352	0.353	0.348	0.347	1.63
37)P Hexachlorobutadie	0.272	0.261	0.260	0.270	0.274	0.268	0.258	0.266	2.41
38)P Caprolactam	0.129	0.130	0.128	0.133	0.138	0.140	0.132	0.133	3.44
39)P 4-Chloro-3-methyl	0.386	0.394	0.416	0.406	0.408	0.401	0.394	0.401	2.55
40)P 2-Methylnaphthale	0.834	0.823	0.799	0.789	0.781	0.760	0.738	0.789	4.28
41) 1-Methylnaphthale	0.749	0.769	0.737	0.703	0.694	0.699	0.675	0.718	4.74
42)P 1,2,4,5-Tetrachlo	0.484	0.453	0.453	0.435	0.453	0.433	0.429	0.448	4.17

Initial Calibration Summary

Job Number: FA31827 **Sample:** SL3781-ICC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685436.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

43) I	Acenaphthene-d10	----------ISTD----------								
44)P	Hexachlorocyclope	0.465	0.437	0.446	0.460	0.469	0.471	0.458	0.458	2.65
45)P	2,4,6-Trichloroph	0.428	0.422	0.418	0.443	0.444	0.440	0.440	0.433	2.48
46)P	2,4,5-Trichloroph	0.416	0.447	0.442	0.452	0.447	0.448	0.442	0.442	2.74
47)S	2-Fluorobiphenyl	1.496	1.467	1.400	1.359	1.337	1.310	1.296	1.381	5.59
48)P	1,1'-Biphenyl	1.573	1.550	1.437	1.429	1.455	1.438	1.401	1.469	4.46
49)P	2-Chloronaphthale	1.167	1.188	1.136	1.135	1.142	1.161	1.124	1.150	1.96
50)P	2-Nitroaniline	0.407	0.417	0.441	0.450	0.457	0.447	0.439	0.437	4.16
51)	p-Dinitrobenzene	0.281	0.316	0.312	0.335	0.342	0.339	0.335	0.323	6.71
52)P	Acenaphthylene	1.839	1.885	1.689	1.621	1.622	1.607	1.564	1.690	7.33
53)P	Dimethylphthalate	1.427	1.491	1.415	1.393	1.360	1.331	1.302	1.389	4.57
54)	m-Dinitrobenzene	0.234	0.257	0.235	0.241	0.242	0.251	0.245	0.244	3.48
55)P	2,6-Dinitrotoluen	0.307	0.338	0.307	0.318	0.331	0.327	0.322	0.322	3.66
56)	o-Dinitrobenzene	0.216	0.229	0.222	0.221	0.233	0.227	0.226	0.225	2.49
57)P	Acenaphthene	1.020	1.066	1.052	1.062	1.071	1.049	1.049	1.053	1.59
58)P	3-Nitroaniline	0.348	0.361	0.339	0.373	0.372	0.370	0.359	0.360	3.59
59)P	2,4-Dinitrophenol	0.137	0.164	0.196	0.231	0.249	0.238	0.245	0.208	21.12

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9974
Response Ratio = 0.00000 + 0.21432 *A + 0.01323 *A^2

60)P	Dibenzofuran	1.677	1.700	1.640	1.592	1.578	1.530	1.495	1.602	4.69
61)P	2,4-Dinitrotoluen	0.395	0.434	0.417	0.452	0.447	0.447	0.444	0.434	4.81
62)P	4-Nitrophenol	0.256	0.291	0.294	0.326	0.333	0.324	0.319	0.306	8.94
63)	2,3,5,6-Tetrachlo	0.383	0.405	0.403	0.420	0.430	0.425	0.416	0.412	3.92
64)P	2,3,4,6-Tetrachlo	0.367	0.413	0.387	0.398	0.407	0.404	0.394	0.396	3.83
65)P	Fluorene	1.371	1.438	1.335	1.344	1.332	1.333	1.276	1.347	3.66
66)P	4-Chlorophenyl-ph	0.718	0.743	0.708	0.724	0.729	0.731	0.711	0.723	1.72
67)P	Diethylphthalate	1.420	1.477	1.383	1.385	1.381	1.355	1.332	1.390	3.38
68)	Thionazin	0.326	0.338	0.318	0.335	0.337	0.348	0.342	0.335	3.04
69)P	4-Nitroaniline	0.318	0.340	0.319	0.336	0.340	0.335	0.345	0.333	3.19

70) I	Phenanthrene-d10	----------ISTD----------								
71)P	4,6-Dinitro-2-met	0.146	0.158	0.153	0.165	0.174	0.166	0.171	0.162	6.32
72)P	n-Nitrosodiphenyl	0.547	0.549	0.506	0.496	0.498	0.486	0.473	0.508	5.72
73)	Diphenylamine	0.656	0.658	0.608	0.596	0.598	0.583	0.568	0.610	5.72
74)	1,2-Diphenylhydra	0.863	0.859	0.807	0.836	0.824	0.853	0.835	0.840	2.42
75)S	2,4,6-Tribromophe	0.142	0.141	0.138	0.140	0.142	0.141	0.136	0.140	1.57
76)	Sulfotep	0.179	0.165	0.163	0.163	0.166	0.163	0.158	0.166	3.91
77)	Phorate	0.570	0.577	0.532	0.512	0.522	0.510	0.493	0.531	5.94
78)P	4-Bromophenyl-phe	0.256	0.248	0.240	0.234	0.237	0.235	0.227	0.240	3.95
79)P	Hexachlorobenzene	0.300	0.288	0.273	0.284	0.288	0.285	0.271	0.284	3.46
80)	Dimethoate	0.351	0.353	0.335	0.324	0.335	0.333	0.298	0.333	5.50
81)	Simazine	0.159	0.164	0.141	0.147	0.143	0.145	0.140	0.148	6.15
82)P	Atrazine	0.272	0.263	0.241	0.241	0.238	0.235	0.229	0.246	6.42
83)P	Pentachlorophenol	0.162	0.160	0.155	0.179	0.184	0.176	0.175	0.170	6.54
84)P	Phenanthrene	1.089	1.123	1.072	1.015	1.023	0.986	0.955	1.038	5.74
85)P	Anthracene	1.097	1.166	1.091	1.034	1.025	0.995	0.963	1.053	6.58
86)	Disulfoton	0.421	0.433	0.431	0.428	0.439	0.432	0.419	0.429	1.62
87)P	Carbazole	1.104	1.089	1.042	0.987	0.996	0.970	0.927	1.016	6.37
88)	Methyl Parathion	0.281	0.296	0.290	0.294	0.300	0.298	0.289	0.293	2.17
89)P	Di-n-butylphthala	1.383	1.430	1.300	1.223	1.200	1.144	1.085	1.252	10.01
90)	Ethyl Parathion	0.186	0.202	0.196	0.201	0.202	0.203	0.192	0.197	3.18
91)P	Fluoranthene	1.468	1.463	1.387	1.281	1.265	1.205	1.151	1.317	9.44

92) I	Chrysene-d12	----------ISTD----------								
93)	Benzidine	0.669	0.755	0.731	0.620	0.560	0.480	0.443	0.608	19.76

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9922
Response Ratio = 0.00000 + 0.76224 *A + -0.13235 *A^2

Initial Calibration Summary

Job Number: FA31827 **Sample:** SL3781-ICC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685436.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

94)	P	Pyrene	1.259	1.331	1.261	1.173	1.178	1.148	1.119	1.210	6.24
95)	S	Terphenyl-d14	0.944	0.984	0.959	0.908	0.935	0.914	0.878	0.932	3.78
96)		Famphur	0.539	0.565	0.551	0.517	0.503	0.483	0.469	0.518	6.85
97)	P	Butylbenzylphthal	0.561	0.594	0.575	0.560	0.572	0.557	0.551	0.567	2.52
98)	P	3,3'-Dichlorobenz	0.490	0.499	0.479	0.464	0.465	0.435	0.413	0.464	6.57
99)	P	Benzo[a]anthracen	1.260	1.314	1.256	1.218	1.247	1.195	1.166	1.237	3.92
100)	P	Chrysene	0.937	1.004	1.005	0.981	1.022	0.983	0.965	0.985	2.88
101)	P	bis(2-Ethylhexyl)	0.763	0.765	0.762	0.774	0.780	0.760	0.755	0.766	1.14
102)	I	Perylene-d12	----------ISTD----------								
103)	P	Di-n-octylphthala	1.464	1.506	1.460	1.409	1.418	1.363	1.313	1.419	4.63
104)	P	Benzo[b]fluoranth	1.324	1.309	1.288	1.237	1.243	1.224	1.194	1.260	3.80
105)	P	Benzo[k]fluoranth	1.096	1.180	1.109	1.052	1.110	1.061	1.031	1.091	4.53
106)	P	Benzo[a]pyrene	1.240	1.270	1.209	1.184	1.202	1.180	1.156	1.206	3.21
107)	P	Indeno[1,2,3-cd]p	1.068	1.131	1.104	1.105	1.152	1.107	1.094	1.109	2.40
108)	P	Dibenz[a,h]anthra	1.011	1.071	1.046	1.018	1.023	1.027	1.015	1.030	2.05
109)	P	Benzo[g,h,i]peryl	1.123	1.159	1.127	1.117	1.150	1.106	1.103	1.127	1.87

(#) = Out of Range

8270daOP.m Tue Feb 02 15:16:11 2016

7.7.4

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3781-ICV3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685440.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\sl3781\L0685440.D Vial: 10
Acq On : 2 Feb 2016 12:17 pm Operator: marthav
Sample : icv3781-50 Inst : MSBNA02
Misc : op59028,sl3781,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Tue Feb 02 14:02:30 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	84	0.00	4.85
2		1,4-Dioxane	50.000	48.834	2.3	80	0.00	2.10
3		N-nitrosodimethylamine	50.000	55.329	-10.7	88	0.00	2.46
4		Pyridine		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
5	P	Benzaldehyde	50.000	59.817	-19.6	91	0.00	4.47
		----------	Amount	Calc.	%Drift	----------		
6		Aniline		----------NA----------				
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	50.787	-1.6	85	0.00	4.67
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	48.881	2.2	83	0.00	4.63
11	P	2-Chlorophenol	50.000	47.739	4.5	80	0.00	4.71
12		1,3-Dichlorobenzene	50.000	49.519	1.0	82	0.00	4.82
13		1,4-Dichlorobenzene	50.000	49.623	0.8	83	0.00	4.87
14		1,2-Dichlorobenzene	50.000	50.800	-1.6	85	0.00	5.03
15		Benzyl alcohol		----------NA----------				
16	P	bis(2-chloroisopropyl)eth	50.000	50.070	-0.1	85	0.00	5.15
17	P	2-Methylphenol	50.000	47.151	5.7	78	0.00	5.14
18	P	Acetophenone	50.000	46.640	6.7	78	0.00	5.24
19	P	Hexachloroethane	50.000	47.721	4.6	80	0.00	5.30
20	P	N-Nitroso-di-n-propylamin	50.000	47.337	5.3	78	0.00	5.27
21	P	3&4-Methylphenol	100.000	90.689	9.3	96	0.00	5.27
22	I	Naphthalene-d8	40.000	40.000	0.0	82	0.00	5.99
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	49.957	0.1	83	0.00	5.39
25	P	Isophorone	50.000	48.156	3.7	78	0.00	5.60
26	P	2-Nitrophenol	50.000	48.978	2.0	78	0.00	5.67
27	P	2,4-Dimethylphenol	50.000	42.245	15.5	69	0.00	5.73
28		O,O,O-Triethylphosphoroth		----------NA----------				
29	P	bis(2-Chloroethoxy)methan	50.000	35.784	28.4#	58	0.00	5.81
30		Benzoic Acid	100.000	104.965	-5.0	96	0.00	5.89
31	P	2,4-Dichlorophenol	50.000	47.780	4.4	81	0.00	5.89
32		1,2,4-Trichlorobenzene	50.000	46.658	6.7	76	0.00	5.96
33		alpha-Terpineol		----------NA----------				
34	P	Naphthalene	50.000	48.264	3.5	80	0.00	6.01
35	P	4-Chloroaniline		----------NA----------				
36		2,6-Dichlorophenol	50.000	47.628	4.7	77	0.00	6.09
37	P	Hexachlorobutadiene	50.000	50.350	-0.7	81	0.00	6.18

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3781-ICV3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685440.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

38	P	Caprolactam	50.000	47.977	4.0	78	-0.03	6.38
39	P	4-Chloro-3-methylphenol	50.000	47.105	5.8	76	0.00	6.54
40	P	2-Methylnaphthalene		----------NA----------				
41		1-Methylnaphthalene	50.000	50.125	-0.3	83	0.00	6.72
42	P	1,2,4,5-Tetrachlorobenzen	50.000	46.061	7.9	78	0.00	6.81
43	I	Acenaphthene-d10	40.000	40.000	0.0	83	0.00	7.57
44	P	Hexachlorocyclopentadiene	50.000	51.970	-3.9	86	0.00	6.83
45	P	2,4,6-Trichlorophenol	50.000	47.538	4.9	77	0.00	6.91
46	P	2,4,5-Trichlorophenol	50.000	48.465	3.1	78	0.00	6.95
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl	50.000	47.008	6.0	80	0.00	7.05
49	P	2-Chloronaphthalene	50.000	47.621	4.8	80	0.00	7.05
50	P	2-Nitroaniline		----------NA----------				
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene	50.000	48.235	3.5	83	0.00	7.43
53	P	Dimethylphthalate	50.000	48.148	3.7	79	0.00	7.38
54		m-Dinitrobenzene		----------NA----------				
55	P	2,6-Dinitrotoluene	50.000	47.344	5.3	79	0.00	7.43
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene	50.000	54.035	-8.1	89	0.00	7.60
58	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
59	P	2,4-Dinitrophenol	100.000	86.467	13.5	89	0.00	7.65
		----------	Amount	Calc.	%Drift		----------	
60	P	Dibenzofuran		----------NA----------				
61	P	2,4-Dinitrotoluene	50.000	48.202	3.6	76	0.00	7.78
62	P	4-Nitrophenol	100.000	92.037	8.0	92	0.00	7.73
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol	50.000	43.704	12.6	72	0.00	7.90
65	P	Fluorene	50.000	51.623	-3.2	86	0.00	8.05
66	P	4-Chlorophenyl-phenylethe	50.000	45.973	8.1	76	0.00	8.05
67	P	Diethylphthalate	50.000	46.373	7.3	77	0.00	8.02
68		Thionazin		----------NA----------				
69	P	4-Nitroaniline		----------NA----------				
70	I	Phenanthrene-d10	40.000	40.000	0.0	76	0.00	8.88
71	P	4,6-Dinitro-2-methylpheno	100.000	111.337	-11.3	100	-0.01	8.15
72	P	n-Nitrosodiphenylamine	50.000	46.816	6.37	61	0.00	8.17
73		Diphenylamine		----------NA----------				
74		1,2-Diphenylhydrazine	50.000	50.391	-0.8	77	0.00	8.19
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep		----------NA----------				
77		Phorate		----------NA----------				
78	P	4-Bromophenyl-phenylether	50.000	53.666	-7.3	84	0.00	8.49
79	P	Hexachlorobenzene	50.000	47.555	4.9	73	0.00	8.61
80		Dimethoate		----------NA----------				
81		Simazine		----------NA----------				
82	P	Atrazine	50.000	50.273	-0.5	78	-0.01	8.68
83	P	Pentachlorophenol	100.000	105.586	-5.6	97	0.00	8.78
84	P	Phenanthrene	50.000	54.374	-8.7	85	0.00	8.90
85	P	Anthracene	50.000	54.516	-9.0	85	0.00	8.94
86		Disulfoton		----------NA----------				
87	P	Carbazole		----------NA----------				
88		Methyl Parathion		----------NA----------				
89	P	Di-n-butylphthalate	50.000	50.352	-0.7	79	0.00	9.47
90		Ethyl Parathion		----------NA----------				
91	P	Fluoranthene	50.000	47.856	4.3	75	0.00	9.97

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3781-ICV3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685440.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

92	I	Chrysene-d12	40.000	40.000	0.0	77	0.00	11.56
		----------	Amount	Calc.	%Drift		----------	
93		Benzidine		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
94	P	Pyrene	50.000	54.054	-8.1	86	0.00	10.17
95	S	Terphenyl-d14		----------NA----------				
96		Famphur		----------NA----------				
97	P	Butylbenzylphthalate	50.000	51.009	-2.0	80	0.00	10.92
98	P	3,3'-Dichlorobenzidine		----------NA----------				
99	P	Benzo[a]anthracene	50.000	53.388	-6.8	84	0.00	11.54
100	P	Chrysene	50.000	56.959	-13.9	89	0.00	11.59
101	P	bis(2-Ethylhexyl)phthalat	50.000	48.147	3.7	74	0.00	11.73
102	I	Perylene-d12	40.000	40.000	0.0	75	0.00	13.92
103	P	Di-n-octylphthalate	50.000	46.547	6.9	70	0.00	12.73
104	P	Benzo[b]fluoranthene	50.000	52.197	-4.4	80	0.00	13.25
105	P	Benzo[k]fluoranthene	50.000	55.855	-11.7	87	-0.02	13.29
106	P	Benzo[a]pyrene	50.000	54.098	-8.2	82	-0.01	13.82
107	P	Indeno[1,2,3-cd]pyrene	50.000	56.102	-12.2	84	-0.02	16.03
108	P	Dibenz[a,h]anthracene	50.000	54.998	-10.0	83	-0.02	16.10
109	P	Benzo[g,h,i]perylene	50.000	55.487	-11.0	84	-0.02	16.49

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0685436.D 8270daOP.m Tue Feb 02 14:07:09 2016

7.7.5

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3781-ICV3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685441.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3781\L0685441.D          Vial: 11
Acq On    :  2 Feb 2016  12:41 pm                     Operator: marthav
Sample    : icv3781-50                                Inst    : MSBNA02
Misc      : op59028,sl3781,1000,,,1,1,water           Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Feb 02 14:02:30 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	97	0.00	4.86
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	44.147	11.7	80	0.00	2.45
		----------	Amount	Calc.	%Drift	----------		
5	P	Benzaldehyde		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6		Aniline	50.000	44.586	10.8	87	0.00	4.60
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	41.885	16.2	76	0.00	5.01
16	P	bis(2-chloroisopropyl)eth		----------NA----------				
17	P	2-Methylphenol		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	Hexachloroethane		----------NA----------				
20	P	N-Nitroso-di-n-propylamin		----------NA----------				
21	P	3&4-Methylphenol		----------NA----------				
22	I	Naphthalene-d8	40.000	40.000	0.0	100	0.00	5.99
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone		----------NA----------				
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28		O,O,O-Triethylphosphoroth		----------NA----------				
29	P	bis(2-Chloroethoxy)methan		----------NA----------				
30		Benzoic Acid		----------NA----------				
31	P	2,4-Dichlorophenol		----------NA----------				
32		1,2,4-Trichlorobenzene		----------NA----------				
33		alpha-Terpineol		----------NA----------				
34	P	Naphthalene		----------NA----------				
35	P	4-Chloroaniline	50.000	40.939	18.1	82	-0.01	6.08
36		2,6-Dichlorophenol		----------NA----------				
37	P	Hexachlorobutadiene		----------NA----------				

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3781-ICV3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685441.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

38	P	Caprolactam		----------NA----------				
39	P	4-Chloro-3-methylphenol		----------NA----------				
40	P	2-Methylnaphthalene	50.000	40.935	18.1	82	0.00	6.62
41		1-Methylnaphthalene		----------NA----------				
42	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
43	I	Acenaphthene-d10	40.000	40.000	0.0	87	0.00	7.57
44	P	Hexachlorocyclopentadiene		----------NA----------				
45	P	2,4,6-Trichlorophenol		----------NA----------				
46	P	2,4,5-Trichlorophenol		----------NA----------				
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl		----------NA----------				
49	P	2-Chloronaphthalene		----------NA----------				
50	P	2-Nitroaniline	50.000	47.120	5.8	80	0.00	7.18
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene		----------NA----------				
53	P	Dimethylphthalate		----------NA----------				
54		m-Dinitrobenzene	50.000	45.496	9.0	80	-0.01	7.38
55	P	2,6-Dinitrotoluene		----------NA----------				
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene		----------NA----------				
58	P	3-Nitroaniline	50.000	48.021	4.0	81	-0.01	7.55
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
60	P	Dibenzofuran	50.000	47.506	5.0	83	0.00	7.74
61	P	2,4-Dinitrotoluene		----------NA----------				
62	P	4-Nitrophenol		----------NA----------				
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
65	P	Fluorene		----------NA----------				
66	P	4-Chlorophenyl-phenylethe		----------NA----------				
67	P	Diethylphthalate		----------NA----------				
68		Thionazin		----------NA----------				
69	P	4-Nitroaniline	50.000	51.469	-2.9	89	-0.02	8.10
70	I	Phenanthrene-d10	40.000	40.000	0.0	89	0.00	8.88
71	P	4,6-Dinitro-2-methylpheno		----------NA----------				
72	P	n-Nitrosodiphenylamine	60.000	55.748	7.1	85	-0.01	8.17
73		Diphenylamine	50.000	46.457	7.1	85	-0.01	8.17
74		1,2-Diphenylhydrazine		----------NA----------				
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep		----------NA----------				
77		Phorate		----------NA----------				
78	P	4-Bromophenyl-phenylether		----------NA----------				
79	P	Hexachlorobenzene		----------NA----------				
80		Dimethoate		----------NA----------				
81		Simazine		----------NA----------				
82	P	Atrazine		----------NA----------				
83	P	Pentachlorophenol		----------NA----------				
84	P	Phenanthrene		----------NA----------				
85	P	Anthracene		----------NA----------				
86		Disulfoton		----------NA----------				
87	P	Carbazole	50.000	44.587	10.8	82	0.00	9.10
88		Methyl Parathion		----------NA----------				
89	P	Di-n-butylphthalate		----------NA----------				
90		Ethyl Parathion		----------NA----------				
91	P	Fluoranthene		----------NA----------				

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3781-ICV3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685441.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
92	I	Chrysene-d12	40.000	40.000	0.0	89	-0.01	11.55
			Amount	Calc.	%Drift			
93		Benzidine	50.000	82.253	-64.5#	116	0.00	10.10
			Amount	Calc.	%Drift			
94	P	Pyrene		----------NA----------				
95	S	Terphenyl-d14		----------NA----------				
96		Famphur		----------NA----------				
97	P	Butylbenzylphthalate		----------NA----------				
98	P	3,3'-Dichlorobenzidine	50.000	53.217	-6.4	94	-0.01	11.54
99	P	Benzo[a]anthracene		----------NA----------				
100	P	Chrysene		----------NA----------				
101	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
102	I	Perylene-d12	40.000	40.000	0.0	93	-0.01	13.92
103	P	Di-n-octylphthalate		----------NA----------				
104	P	Benzo[b]fluoranthene		----------NA----------				
105	P	Benzo[k]fluoranthene		----------NA----------				
106	P	Benzo[a]pyrene		----------NA----------				
107	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
108	P	Dibenz[a,h]anthracene		----------NA----------				
109	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0685436.D 8270daOP.m Tue Feb 02 14:07:10 2016

7.7.6

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3781-ICV3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685442.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3781\L0685442.D          Vial: 12
Acq On    :  2 Feb 2016   1:06 pm                    Operator: marthav
Sample    : icv3781-50                               Inst    : MSBNA02
Misc      : op59028,sl3781,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Feb 02 15:08:12 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	120	0.00	4.85
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine		NA				
			Amount	Calc.	%Drift			
5	P	Benzaldehyde		NA				
			Amount	Calc.	%Drift			
6		Aniline		NA				
7	S	2-Fluorophenol		NA				
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol		NA				
16	P	bis(2-chloroisopropyl)eth		NA				
17	P	2-Methylphenol		NA				
18	P	Acetophenone		NA				
19	P	Hexachloroethane		NA				
20	P	N-Nitroso-di-n-propylamin		NA				
21	P	3&4-Methylphenol		NA				
22	I	Naphthalene-d8	40.000	40.000	0.0	107	0.00	5.99
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28		O,O,O-Triethylphosphoroth	50.000	51.051	-2.1	109	0.00	5.82
29	P	bis(2-Chloroethoxy)methan		NA				
30		Benzoic Acid		NA				
31	P	2,4-Dichlorophenol		NA				
32		1,2,4-Trichlorobenzene		NA				
33		alpha-Terpineol		NA				
34	P	Naphthalene		NA				
35	P	4-Chloroaniline		NA				
36		2,6-Dichlorophenol		NA				
37	P	Hexachlorobutadiene		NA				

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3781-ICV3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685442.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

38	P	Caprolactam		----------NA----------				
39	P	4-Chloro-3-methylphenol		----------NA----------				
40	P	2-Methylnaphthalene		----------NA----------				
41		1-Methylnaphthalene		----------NA----------				
42	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
43	I	Acenaphthene-d10	40.000	40.000	0.0	112	0.00	7.57
44	P	Hexachlorocyclopentadiene		----------NA----------				
45	P	2,4,6-Trichlorophenol		----------NA----------				
46	P	2,4,5-Trichlorophenol		----------NA----------				
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl		----------NA----------				
49	P	2-Chloronaphthalene		----------NA----------				
50	P	2-Nitroaniline		----------NA----------				
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene		----------NA----------				
53	P	Dimethylphthalate		----------NA----------				
54		m-Dinitrobenzene		----------NA----------				
55	P	2,6-Dinitrotoluene		----------NA----------				
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene		----------NA----------				
58	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
60	P	Dibenzofuran		----------NA----------				
61	P	2,4-Dinitrotoluene		----------NA----------				
62	P	4-Nitrophenol		----------NA----------				
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
65	P	Fluorene		----------NA----------				
66	P	4-Chlorophenyl-phenylethe		----------NA----------				
67	P	Diethylphthalate		----------NA----------				
68		Thionazin	50.000	49.785	0.4	112	-0.02	8.08
69	P	4-Nitroaniline		----------NA----------				
70	I	Phenanthrene-d10	40.000	40.000	0.0	95	0.00	8.88
71	P	4,6-Dinitro-2-methylpheno		----------NA----------				
72	P	n-Nitrosodiphenylamine		----------NA----------				
73		Diphenylamine		----------NA----------				
74		1,2-Diphenylhydrazine		----------NA----------				
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep	50.000	51.331	-2.7	98	0.00	8.41
77		Phorate	50.000	46.772	6.5	92	0.00	8.47
78	P	4-Bromophenyl-phenylether		----------NA----------				
79	P	Hexachlorobenzene		----------NA----------				
80		Dimethoate	50.000	49.117	1.8	96	-0.01	8.62
81		Simazine		----------NA----------				
82	P	Atrazine		----------NA----------				
83	P	Pentachlorophenol		----------NA----------				
84	P	Phenanthrene		----------NA----------				
85	P	Anthracene		----------NA----------				
86		Disulfoton	50.000	42.418	15.2	80	0.00	8.93
87	P	Carbazole		----------NA----------				
88		Methyl Parathion	50.000	51.047	-2.1	96	0.00	9.27
89	P	Di-n-butylphthalate		----------NA----------				
90		Ethyl Parathion	50.000	52.442	-4.9	98	0.00	9.63
91	P	Fluoranthene		----------NA----------				

Initial Calibration Verification

Job Number: FA31827 **Sample:** SL3781-ICV3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685442.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
92	I	Chrysene-d12	40.000	40.000	0.0	111	-0.01	11.55
93		Benzidine		NA				
94	P	Pyrene		NA				
95	S	Terphenyl-d14		NA				
96		Famphur	50.000	49.745	0.5	111	0.00	10.86
97	P	Butylbenzylphthalate		NA				
98	P	3,3'-Dichlorobenzidine		NA				
99	P	Benzo[a]anthracene		NA				
100	P	Chrysene		NA				
101	P	bis(2-Ethylhexyl)phthalat		NA				
102	I	Perylene-d12	40.000	40.000	0.0	104	-0.01	13.92
103	P	Di-n-octylphthalate		NA				
104	P	Benzo[b]fluoranthene		NA				
105	P	Benzo[k]fluoranthene		NA				
106	P	Benzo[a]pyrene		NA				
107	P	Indeno[1,2,3-cd]pyrene		NA				
108	P	Dibenz[a,h]anthracene		NA				
109	P	Benzo[g,h,i]perylene		NA				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0685436.D 8270daOP.m Wed Feb 03 10:48:48 2016

7.2.7

7

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3795-CC3775
Account: URSNCM AECOM, INC. **Lab FileID:** L0685747.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3795\L0685747.D          Vial: 3
Acq On    :  7 Mar 2016   2:57 pm                    Operator: marthav
Sample    : cc3775-50                                Inst    : MSBNA02
Misc      : op59028,sl3795,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\appIXDO.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Fri Mar 04 16:07:21 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	121	0.00	4.75
2		2-Picoline	1.773	1.735	2.1	124	0.00	3.06
3		N-Nitrosomethylethylamine	0.809	0.781	3.5	120	0.00	3.22
4		Methyl methanesulfonate	0.955	0.886	7.2	119	0.00	3.53
5		N-Nitrosodiethylamine	0.673	0.612	9.1	117	0.00	3.86
6		Ethyl methanesulfonate	1.292	1.284	0.6	126	0.00	4.16
7	P	Benzaldehyde		----------NA----------				
8	S	2-Fluorophenol	1.507	1.500	0.5	126	0.00	3.69
9	S	Phenol-d5	1.735	1.658	4.4	125	0.00	4.54
10		Pentachloroethane	0.654	0.678	-3.7	128	0.00	4.49
11		N-Nitrosopyrrolidine	0.593	0.502	15.3	104	0.00	5.13
12	P	Acetophenone	2.174	2.235	-2.8	129	0.00	5.14
13		N-Nitrosomorpholine	0.778	0.651	16.3	107	0.00	5.15
14		O-Toluidine	2.164	2.116	2.2	125	0.00	5.18
15	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00	5.88
16	S	Nitrobenzene-d5	0.495	0.518	-4.6	122	0.00	5.27
17		N-Nitrosopiperidine	0.275	0.293	-6.5	127	0.00	5.41
18		A,A-Dimethylphenethylamin	0.865	0.972	-12.4	125	0.00	5.87
19		Hexachloropropene	0.295	0.326	-10.5	126	0.00	6.01
20		N-Nitrosodi-n-butylamine	0.269	0.255	5.2	110	0.00	6.30
21		p-Phenylenediamine	0.337	0.312	7.4	102	0.00	6.29
22	P	Caprolactam		----------NA----------				
23		Isosafrole	0.299	0.346	-15.7	139	0.00	6.46
24	P	1,2,4,5-Tetrachlorobenzen	0.398	0.455	-14.3	135	0.00	6.70
25	I	Acenaphthene-d10	1.000	1.000	0.0	122	0.00	7.46
26	S	2-Fluorobiphenyl	1.311	1.373	-4.7	131	0.00	6.87
27	P	1,1'-Biphenyl		----------NA----------				
28		Safrole	0.473	0.502	-6.1	136	0.00	6.92
29		1-Chloronaphthalene	1.010	1.015	-0.5	128	0.00	6.97
30		Diphenyl Ether		----------NA----------				
31		1,4-Naphthoquinone	0.409	0.381	6.8	118	0.00	7.11
32		Pentachlorobenzene	0.566	0.625	-10.4	136	0.00	7.65
33		1-Naphthylamine	1.057	1.064	-0.7	124	0.00	7.71
34		2-Naphthylamine	1.026	1.039	-1.3	124	0.00	7.77
35		5-Nitro-o-toluidine	0.362	0.404	-11.6	135	0.00	7.99
36	I	Phenanthrene-d10	1.000	1.000	0.0	119	0.00	8.77
37	S	2,4,6-Tribromophenol	0.144	0.175	-21.5#	148	0.00	8.18
38		1,3,5-Trinitrobenzene	0.296	0.352	-18.9	131	0.00	8.35

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3795-CC3775
Account: URSNCM AECOM, INC. **Lab FileID:** L0685747.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
39		Diallate	50.000	43.332	13.3	115	0.00	8.35
			AvgRF	CCRF	%Dev			
40		Phenacetin	0.462	0.473	-2.4	127	0.00	8.39
			Amount	Calc.	%Drift			
41	P	Atrazine		NA				
			AvgRF	CCRF	%Dev			
42		4-aminobiphenyl	0.717	0.759	-5.9	125	0.00	8.62
43		Pentachloronitrobenzene	0.137	0.148	-8.0	133	0.00	8.74
44		Pronamide	0.398	0.445	-11.8	134	0.00	8.72
			Amount	Calc.	%Drift			
45		4-Nitroquinoline 1-Oxide	50.000	53.614	-7.2	126	0.00	9.51
			AvgRF	CCRF	%Dev			
46		Methapyrilene	0.292	0.255	12.7	103	0.00	9.61
47		Isodrin	0.162	0.175	-8.0	126	0.00	9.74
48	I	Chrysene-d12	1.000	1.000	0.0	123	0.00	11.39
49	S	Terphenyl-d14	0.841	0.907	-7.8	136	0.00	10.22
50		Aramite	0.149	0.152	-2.0	129	0.00	10.31
51		p-(Dimethylamine)azobenze	0.313	0.311	0.6	126	0.00	10.38
52		Chlorobenzilate	0.365	0.358	1.9	125	0.00	10.44
53		Kepone	0.117	0.129	-10.3	133	0.00	10.74
54		3,3'-Dimethylbenzidine	0.372	0.309	16.9	100	0.00	10.72
55		2-Acetylaminofluorene	0.510	0.515	-1.0	122	0.00	11.05
56	I	Perylene-d12	1.000	1.000	0.0	123	0.00	13.69
57		7,12-Dimethylbenz(a)anthr	0.633	0.712	-12.5	137	0.00	13.06
			Amount	Calc.	%Drift			
58		Hexachlorophene	500.000	632.621	-26.5#	170	-0.01	13.51
			AvgRF	CCRF	%Dev			
59		3-Methylcholanthrene	0.584	0.593	-1.5	128	0.00	14.33
60		Dibenz(a,j)acridine	0.957	1.067	-11.5	139	0.00	15.44

(#) = Out of Range SPCC's out = 3 CCC's out = 0
L0685325.D appIXDO.m Tue Mar 08 17:23:09 2016

7.7.8

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Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3795-ECC3775
Account: URSNCM AECOM, INC. **Lab FileID:** L0685757.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3795\L0685757.D          Vial: 13
Acq On    :  7 Mar 2016   7:05 pm                    Operator: marthav
Sample    : ecc3775-50                               Inst    : MSBNA02
Misc      : op59028,sl3795,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\appIXDO.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Fri Mar 04 16:07:21 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	65	0.00	4.75
2		2-Picoline	1.773	1.850	-4.3	72	-0.01	3.05
3		N-Nitrosomethylethylamine	0.809	0.913	-12.9	76	-0.01	3.21
4		Methyl methanesulfonate	0.955	0.911	4.6	66	-0.01	3.52
5		N-Nitrosodiethylamine	0.673	0.669	0.6	69	-0.01	3.86
6		Ethyl methanesulfonate	1.292	1.319	-2.1	70	0.00	4.15
7	P	Benzaldehyde		----------NA----------				
8	S	2-Fluorophenol	1.507	1.623	-7.7	74	0.00	3.69
9	S	Phenol-d5	1.735	1.771	-2.1	72	0.00	4.54
10		Pentachloroethane	0.654	0.685	-4.7	70	0.00	4.49
11		N-Nitrosopyrrolidine	0.593	0.592	0.2	66	0.00	5.13
12	P	Acetophenone	2.174	2.309	-6.2	72	0.00	5.13
13		N-Nitrosomorpholine	0.778	0.760	2.3	67	0.00	5.15
14		O-Toluidine	2.164	2.204	-1.8	71	0.00	5.17
15	I	Naphthalene-d8	1.000	1.000	0.0	64	0.00	5.87
16	S	Nitrobenzene-d5	0.495	0.521	-5.3	68	0.00	5.26
17		N-Nitrosopiperidine	0.275	0.306	-11.3	74	0.00	5.40
18		A,A-Dimethylphenethylamin	0.865	0.926	-7.1	67	-0.07	5.81
19		Hexachloropropene	0.295	0.327	-10.8	70	0.00	6.01
20		N-Nitrosodi-n-butylamine	0.269	0.268	0.4	65	0.00	6.30
21		p-Phenylenediamine	0.337	0.353	-4.7	65	0.00	6.29
22	P	Caprolactam		----------NA----------				
23		Isosafrole	0.299	0.337	-12.7	76	0.00	6.46
24	P	1,2,4,5-Tetrachlorobenzen	0.398	0.465	-16.8	77	0.00	6.70
25	I	Acenaphthene-d10	1.000	1.000	0.0	69	0.00	7.46
26	S	2-Fluorobiphenyl	1.311	1.356	-3.4	74	0.00	6.87
27	P	1,1'-Biphenyl		----------NA----------				
28		Safrole	0.473	0.480	-1.5	74	0.00	6.91
29		1-Chloronaphthalene	1.010	1.002	0.8	72	0.00	6.98
30		Diphenyl Ether		----------NA----------				
31		1,4-Naphthoquinone	0.409	0.382	6.6	67	0.00	7.11
32		Pentachlorobenzene	0.566	0.620	-9.5	77	0.00	7.65
33		1-Naphthylamine	1.057	1.068	-1.0	71	0.00	7.70
34		2-Naphthylamine	1.026	1.067	-4.0	72	0.00	7.77
35		5-Nitro-o-toluidine	0.362	0.370	-2.2	70	0.00	7.98
36	I	Phenanthrene-d10	1.000	1.000	0.0	67	0.00	8.76
37	S	2,4,6-Tribromophenol	0.144	0.169	-17.4	82	0.00	8.17
38		1,3,5-Trinitrobenzene	0.296	0.359	-21.3	76	0.00	8.35

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3795-ECC3775
Account: URSNCM AECOM, INC. **Lab FileID:** L0685757.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
39		Diallate	50.000	44.364	11.3	67	0.00	8.35
			AvgRF	CCRF	%Dev			
40		Phenacetin	0.462	0.474	-2.6	72	-0.01	8.38
			Amount	Calc.	%Drift			
41	P	Atrazine		NA				
			AvgRF	CCRF	%Dev			
42		4-aminobiphenyl	0.717	0.850	-18.5	80	0.00	8.62
43		Pentachloronitrobenzene	0.137	0.151	-10.2	77	0.00	8.73
44		Pronamide	0.398	0.434	-9.0	74	0.00	8.72
			Amount	Calc.	%Drift			
45		4-Nitroquinoline 1-Oxide	50.000	49.990	0.0	67	0.00	9.50
			AvgRF	CCRF	%Dev			
46		Methapyrilene	0.292	0.260	11.0	60	0.00	9.61
47		Isodrin	0.162	0.185	-14.2	75	0.00	9.73
48	I	Chrysene-d12	1.000	1.000	0.0	73	-0.01	11.38
49	S	Terphenyl-d14	0.841	0.914	-8.7	82	0.00	10.22
50		Aramite	0.149	0.144	3.4	73	0.00	10.31
51		p-(Dimethylamine)azobenze	0.313	0.304	2.9	73	0.00	10.38
52		Chlorobenzilate	0.365	0.365	0.0	76	0.00	10.44
53		Kepone	0.117	0.128	-9.4	78	0.00	10.73
54		3,3'-Dimethylbenzidine	0.372	0.335	9.9	64	0.00	10.72
55		2-Acetylaminofluorene	0.510	0.496	2.7	70	-0.02	11.04
56	I	Perylene-d12	1.000	1.000	0.0	70	-0.03	13.67
57		7,12-Dimethylbenz(a)anthr	0.633	0.729	-15.2	80	-0.02	13.05
			Amount	Calc.	%Drift			
58		Hexachlorophene	500.000	618.258	-23.7	94	-0.04	13.49
			AvgRF	CCRF	%Dev			
59		3-Methylcholanthrene	0.584	0.622	-6.5	77	-0.03	14.30
60		Dibenz(a,j)acridine	0.957	1.099	-14.8	82	-0.03	15.42

(#) = Out of Range SPCC's out = 3 CCC's out = 0
L0685325.D appIXDO.m Tue Mar 08 17:23:39 2016

7.7.9

7

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-CC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685816.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3797\L0685816.D          Vial: 3
Acq On    : 10 Mar 2016   1:25 pm                    Operator: nareshj
Sample    : cc3781-50                                Inst    : MSBNA02
Misc      : op59028,sl3797,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Thu Mar 10 15:52:55 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00	4.72
2		1,4-Dioxane	0.770	0.882	-14.5	121	0.00	1.95
3		N-nitrosodimethylamine	0.869	0.934	-7.5	111	0.00	2.32
4		Pyridine	1.959	2.145	-9.5	111	0.00	2.31
		----------	Amount	Calc.	%Drift	----------		
5	P	Benzaldehyde	50.000	63.963	-27.9#	121	0.00	4.35
		----------	AvgRF	CCRF	%Dev	----------		
6		Aniline	2.573	2.359	8.3	100	0.00	4.48
7	S	2-Fluorophenol	1.707	1.691	0.9	106	0.00	3.67
8	P	bis(2-Chloroethyl)ether	1.435	1.413	1.5	107	0.00	4.54
9	S	Phenol-d5	1.913	1.735	9.3	101	0.00	4.53
10	P	Phenol	1.949	1.856	4.8	105	0.00	4.53
11	P	2-Chlorophenol	1.372	1.324	3.5	104	0.00	4.58
12		1,3-Dichlorobenzene	1.575	1.580	-0.3	108	0.00	4.69
13		1,4-Dichlorobenzene	1.494	1.525	-2.1	110	0.00	4.74
14		1,2-Dichlorobenzene	1.455	1.467	-0.8	109	0.00	4.90
15		Benzyl alcohol	1.037	1.065	-2.7	105	0.00	4.89
16	P	bis(2-chloroisopropyl)eth	1.338	1.441	-7.7	119	0.01	5.02
17	P	2-Methylphenol	1.389	1.333	4.0	103	0.00	5.03
18	P	Acetophenone	2.177	2.159	0.8	107	0.01	5.11
19	P	Hexachloroethane	0.675	0.710	-5.2	114	0.00	5.17
20	P	N-Nitroso-di-n-propylamin	1.014	1.063	-4.8	111	0.01	5.15
21	P	3&4-Methylphenol	1.410	1.397	0.9	106	0.00	5.17
22	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00	5.86
23	S	Nitrobenzene-d5	0.551	0.573	-4.0	106	-0.01	5.24
24	P	Nitrobenzene	0.492	0.520	-5.7	109	0.00	5.26
25	P	Isophorone	0.875	0.933	-6.6	108	0.00	5.47
26	P	2-Nitrophenol	0.231	0.235	-1.7	100	0.00	5.54
27	P	2,4-Dimethylphenol	0.458	0.487	-6.3	109	0.00	5.62
28		O,O,O-Triethylphosphoroth	0.232	0.247	-6.5	108	0.00	5.70
29	P	bis(2-Chloroethoxy)methan	0.649	0.686	-5.7	106	0.00	5.68
30		Benzoic Acid	0.302	0.353	-16.9	113	0.00	5.77
31	P	2,4-Dichlorophenol	0.352	0.372	-5.7	111	0.00	5.77
32		1,2,4-Trichlorobenzene	0.413	0.408	1.2	101	0.00	5.82
33		alpha-Terpineol		----------NA----------				
34	P	Naphthalene	0.991	1.008	-1.7	105	0.00	5.87
35	P	4-Chloroaniline	0.478	0.450	5.9	95	0.00	5.96
36		2,6-Dichlorophenol	0.347	0.383	-10.4	111	0.00	5.96
37	P	Hexachlorobutadiene	0.266	0.288	-8.3	108	0.00	6.04

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-CC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685816.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

38	P	Caprolactam	0.133	0.133	0.0	102	0.01	6.27
39	P	4-Chloro-3-methylphenol	0.401	0.420	-4.7	105	0.00	6.43
40	P	2-Methylnaphthalene	0.789	0.777	1.5	100	0.00	6.49
41		1-Methylnaphthalene	0.718	0.721	-0.4	104	0.00	6.58
42	P	1,2,4,5-Tetrachlorobenzen	0.448	0.458	-2.2	107	0.01	6.68
43	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00	7.43
44	P	Hexachlorocyclopentadiene	0.458	0.476	-3.9	110	0.00	6.69
45	P	2,4,6-Trichlorophenol	0.433	0.438	-1.2	105	0.00	6.78
46	P	2,4,5-Trichlorophenol	0.442	0.444	-0.5	105	0.00	6.83
47	S	2-Fluorobiphenyl	1.381	1.245	9.8	98	0.00	6.84
48	P	1,1'-Biphenyl	1.469	1.440	2.0	107	0.00	6.92
49	P	2-Chloronaphthalene	1.150	1.151	-0.1	108	0.00	6.92
50	P	2-Nitroaniline	0.437	0.446	-2.1	106	0.00	7.05
51		p-Dinitrobenzene	0.323	0.333	-3.1	106	0.00	7.15
52	P	Acenaphthylene	1.690	1.575	6.8	103	0.00	7.29
53	P	Dimethylphthalate	1.389	1.309	5.8	100	0.00	7.26
54		m-Dinitrobenzene	0.244	0.235	3.7	104	0.00	7.26
55	P	2,6-Dinitrotoluene	0.322	0.296	8.1	99	0.00	7.31
56		o-Dinitrobenzene	0.225	0.241	-7.1	116	0.00	7.37
57	P	Acenaphthene	1.053	1.013	3.8	102	0.00	7.46
58	P	3-Nitroaniline	0.360	0.316	12.2	90	0.00	7.43
		----------	Amount	Calc.	%Drift		----------	
59	P	2,4-Dinitrophenol	50.000	48.104	3.8	102	0.00	7.52
		----------	AvgRF	CCRF	%Dev		----------	
60	P	Dibenzofuran	1.602	1.550	3.2	104	0.00	7.60
61	P	2,4-Dinitrotoluene	0.434	0.407	6.2	96	0.00	7.66
62	P	4-Nitrophenol	0.306	0.324	-5.9	106	0.00	7.63
63		2,3,5,6-Tetrachlorophenol	0.412	0.405	1.7	103	0.00	7.73
64	P	2,3,4,6-Tetrachlorophenol	0.396	0.386	2.5	103	0.00	7.77
65	P	Fluorene	1.347	1.262	6.3	100	0.00	7.91
66	P	4-Chlorophenyl-phenylethe	0.723	0.691	4.4	102	0.00	7.92
67	P	Diethylphthalate	1.390	1.329	4.4	102	0.00	7.89
68		Thionazin	0.335	0.345	-3.0	110	0.00	7.96
69	P	4-Nitroaniline	0.333	0.286	14.1	91	0.01	7.99
70	I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00	8.74
71	P	4,6-Dinitro-2-methylpheno	0.162	0.171	-5.6	102	0.00	8.02
72	P	n-Nitrosodiphenylamine	0.508	0.503	1.0	100	0.00	8.04
73		Diphenylamine	0.610	0.604	1.0	100	0.00	8.04
74		1,2-Diphenylhydrazine	0.840	0.936	-11.4	110	0.00	8.06
75	S	2,4,6-Tribromophenol	0.140	0.139	0.7	98	0.00	8.15
76		Sulfotep	0.166	0.183	-10.2	110	0.00	8.28
77		Phorate	0.531	0.565	-6.4	109	0.00	8.34
78	P	4-Bromophenyl-phenylether	0.240	0.246	-2.5	104	0.00	8.35
79	P	Hexachlorobenzene	0.284	0.287	-1.1	100	0.00	8.48
80		Dimethoate	0.333	0.326	2.1	99	0.00	8.50
81		Simazine	0.148	0.092	37.8#	62	0.00	8.53
82	P	Atrazine	0.246	0.246	0.0	101	0.00	8.56
83	P	Pentachlorophenol	0.170	0.184	-8.2	101	0.00	8.65
84	P	Phenanthrene	1.038	1.042	-0.4	101	0.00	8.76
85	P	Anthracene	1.053	1.108	-5.2	106	0.00	8.80
86		Disulfoton	0.429	0.466	-8.6	107	0.00	8.80
87	P	Carbazole	1.016	1.006	1.0	101	0.00	8.96
88		Methyl Parathion	0.293	0.312	-6.5	105	0.00	9.14
89	P	Di-n-butylphthalate	1.252	1.226	2.1	99	0.01	9.34
90		Ethyl Parathion	0.197	0.213	-8.1	105	0.00	9.49
91	P	Fluoranthene	1.317	1.290	2.1	99	0.00	9.83

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-CC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685816.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

92	I	Chrysene-d12	1.000	1.000	0.0	97	0.00	11.35
		----------	Amount	Calc.	%Drift		----------	
93		Benzidine		----------NA----------				
		----------	AvgRF	CCRF	%Dev		----------	
94	P	Pyrene	1.210	1.209	0.1	100	0.00	10.03
95	S	Terphenyl-d14	0.932	0.903	3.1	96	0.00	10.19
96		Famphur	0.518	0.511	1.4	96	0.00	10.70
97	P	Butylbenzylphthalate	0.567	0.575	-1.4	99	0.00	10.74
98	P	3,3'-Dichlorobenzidine	0.464	0.463	0.2	96	0.00	11.34
99	P	Benzo[a]anthracene	1.237	1.251	-1.1	99	0.00	11.33
100	P	Chrysene	0.985	1.025	-4.1	101	0.00	11.38
101	P	bis(2-Ethylhexyl)phthalat	0.766	0.787	-2.7	98	0.00	11.52
102	I	Perylene-d12	1.000	1.000	0.0	96	0.00	13.62
103	P	Di-n-octylphthalate	1.419	1.473	-3.8	100	0.00	12.49
104	P	Benzo[b]fluoranthene	1.260	1.327	-5.3	103	0.00	12.97
105	P	Benzo[k]fluoranthene	1.091	1.035	5.1	94	0.00	13.01
106	P	Benzo[a]pyrene	1.206	1.222	-1.3	99	0.00	13.52
107	P	Indeno[1,2,3-cd]pyrene	1.109	1.194	-7.7	103	0.00	15.67
108	P	Dibenz[a,h]anthracene	1.030	1.088	-5.6	102	0.00	15.75
109	P	Benzo[g,h,i]perylene	1.127	1.186	-5.2	102	0.00	16.17

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0685436.D 8270daOP.m Thu Mar 10 16:13:43 2016

7.7.10

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Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-CC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685818.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3797\L0685818.D          Vial: 5
Acq On    : 10 Mar 2016   2:17 pm                    Operator: nareshj
Sample    : cc3781-25,benzidine                      Inst    : MSBNA02
Misc      : op59028,sl3797,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Thu Mar 10 15:52:55 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%

       Compound                    AvgRF   CCRF      %Dev Area%  Dev(min)R.T.
-----------------------------------------------------------------------------
1 I   1,4-Dichlorobenzene-d4      1.000   1.000      0.0   87   0.00    4.72
2     1,4-Dioxane                          ----------NA----------
3     N-nitrosodimethylamine               ----------NA----------
4     Pyridine                             ----------NA----------

          ----------------------- Amount  Calc.    %Drift   -------------
5 P   Benzaldehyde                         ----------NA----------

          ----------------------- AvgRF   CCRF      %Dev   --------------
6     Aniline                              ----------NA----------
7 S   2-Fluorophenol                       ----------NA----------
8 P   bis(2-Chloroethyl)ether              ----------NA----------
9 S   Phenol-d5                            ----------NA----------
10 P  Phenol                               ----------NA----------
11 P  2-Chlorophenol                       ----------NA----------
12    1,3-Dichlorobenzene                  ----------NA----------
13    1,4-Dichlorobenzene                  ----------NA----------
14    1,2-Dichlorobenzene                  ----------NA----------
15    Benzyl alcohol                       ----------NA----------
16 P  bis(2-chloroisopropyl)eth            ----------NA----------
17 P  2-Methylphenol                       ----------NA----------
18 P  Acetophenone                         ----------NA----------
19 P  Hexachloroethane                     ----------NA----------
20 P  N-Nitroso-di-n-propylamin            ----------NA----------
21 P  3&4-Methylphenol                     ----------NA----------

22 I  Naphthalene-d8              1.000   1.000      0.0   90   0.00    5.85
23 S  Nitrobenzene-d5                      ----------NA----------
24 P  Nitrobenzene                         ----------NA----------
25 P  Isophorone                           ----------NA----------
26 P  2-Nitrophenol                        ----------NA----------
27 P  2,4-Dimethylphenol                   ----------NA----------
28    O,O,O-Triethylphosphoroth            ----------NA----------
29 P  bis(2-Chloroethoxy)methan            ----------NA----------
30    Benzoic Acid                         ----------NA----------
31 P  2,4-Dichlorophenol                   ----------NA----------
32    1,2,4-Trichlorobenzene               ----------NA----------
33    alpha-Terpineol                      ----------NA----------
34 P  Naphthalene                          ----------NA----------
35 P  4-Chloroaniline                      ----------NA----------
36    2,6-Dichlorophenol                   ----------NA----------
37 P  Hexachlorobutadiene                  ----------NA----------
```

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-CC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685818.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

38	P	Caprolactam		----------NA----------				
39	P	4-Chloro-3-methylphenol		----------NA----------				
40	P	2-Methylnaphthalene		----------NA----------				
41		1-Methylnaphthalene		----------NA----------				
42	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
43	I	Acenaphthene-d10	1.000	1.000	0.0	87	0.00	7.43
44	P	Hexachlorocyclopentadiene		----------NA----------				
45	P	2,4,6-Trichlorophenol		----------NA----------				
46	P	2,4,5-Trichlorophenol		----------NA----------				
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl		----------NA----------				
49	P	2-Chloronaphthalene		----------NA----------				
50	P	2-Nitroaniline		----------NA----------				
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene		----------NA----------				
53	P	Dimethylphthalate		----------NA----------				
54		m-Dinitrobenzene		----------NA----------				
55	P	2,6-Dinitrotoluene		----------NA----------				
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene		----------NA----------				
58	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
60	P	Dibenzofuran		----------NA----------				
61	P	2,4-Dinitrotoluene		----------NA----------				
62	P	4-Nitrophenol		----------NA----------				
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
65	P	Fluorene		----------NA----------				
66	P	4-Chlorophenyl-phenylethe		----------NA----------				
67	P	Diethylphthalate		----------NA----------				
68		Thionazin		----------NA----------				
69	P	4-Nitroaniline		----------NA----------				
70	I	Phenanthrene-d10	1.000	1.000	0.0	81	0.00	8.74
71	P	4,6-Dinitro-2-methylpheno		----------NA----------				
72	P	n-Nitrosodiphenylamine		----------NA----------				
73		Diphenylamine		----------NA----------				
74		1,2-Diphenylhydrazine		----------NA----------				
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep		----------NA----------				
77		Phorate		----------NA----------				
78	P	4-Bromophenyl-phenylether		----------NA----------				
79	P	Hexachlorobenzene		----------NA----------				
80		Dimethoate		----------NA----------				
81		Simazine		----------NA----------				
82	P	Atrazine		----------NA----------				
83	P	Pentachlorophenol		----------NA----------				
84	P	Phenanthrene		----------NA----------				
85	P	Anthracene		----------NA----------				
86		Disulfoton		----------NA----------				
87	P	Carbazole		----------NA----------				
88		Methyl Parathion		----------NA----------				
89	P	Di-n-butylphthalate		----------NA----------				
90		Ethyl Parathion		----------NA----------				
91	P	Fluoranthene		----------NA----------				

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-CC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685818.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

92	I	Chrysene-d12	1.000	1.000	0.0	83	-0.01	11.34
		----------	Amount	Calc.	%Drift		----------	
93		Benzidine	25.000	27.405	-9.6	84	0.00	9.96
		----------	AvgRF	CCRF	%Dev		----------	
94	P	Pyrene		----------NA----------				
95	S	Terphenyl-d14		----------NA----------				
96		Famphur		----------NA----------				
97	P	Butylbenzylphthalate		----------NA----------				
98	P	3,3'-Dichlorobenzidine		----------NA----------				
99	P	Benzo[a]anthracene		----------NA----------				
100	P	Chrysene		----------NA----------				
101	P	bis(2-Ethylhexyl)phthalat		----------NA----------				
102	I	Perylene-d12	1.000	1.000	0.0	83	-0.02	13.60
103	P	Di-n-octylphthalate		----------NA----------				
104	P	Benzo[b]fluoranthene		----------NA----------				
105	P	Benzo[k]fluoranthene		----------NA----------				
106	P	Benzo[a]pyrene		----------NA----------				
107	P	Indeno[1,2,3-cd]pyrene		----------NA----------				
108	P	Dibenz[a,h]anthracene		----------NA----------				
109	P	Benzo[g,h,i]perylene		----------NA----------				

(#) = Out of Range SPCC's out = 65 CCC's out = 0
L0685435.D 8270daOP.m Thu Mar 10 16:14:28 2016

7.7.11

7

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-ECC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685852.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3797\L0685852.D          Vial: 29
Acq On    : 11 Mar 2016   4:03 am                    Operator: nareshj
Sample    : ecc3781-50                               Inst    : MSBNA02
Misc      : op59028,sl3797,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Thu Mar 10 15:52:55 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	60	0.00	4.72
2		1,4-Dioxane	0.770	0.914	-18.7	68	-0.04	1.92
3		N-nitrosodimethylamine	0.869	1.194	-37.4	77	-0.03	2.30
4		Pyridine	1.959	2.382	-21.6	67	-0.03	2.28
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	50.000	54.593	-9.2	61	-0.01	4.34
		----------	AvgRF	CCRF	%Dev		----------	
6		Aniline	2.573	2.617	-1.7	61	-0.01	4.48
7	S	2-Fluorophenol	1.707	1.814	-6.3	62	0.00	3.66
8	P	bis(2-Chloroethyl)ether	1.435	1.534	-6.9	63	0.00	4.54
9	S	Phenol-d5	1.913	1.903	0.5	60	0.00	4.51
10	P	Phenol	1.949	1.982	-1.7	61	0.00	4.52
11	P	2-Chlorophenol	1.372	1.393	-1.5	60	-0.01	4.58
12		1,3-Dichlorobenzene	1.575	1.660	-5.4	62	0.00	4.69
13		1,4-Dichlorobenzene	1.494	1.601	-7.2	63	0.00	4.73
14		1,2-Dichlorobenzene	1.455	1.535	-5.5	62	0.00	4.90
15		Benzyl alcohol	1.037	1.102	-6.3	59	0.00	4.88
16	P	bis(2-chloroisopropyl)eth	1.338	1.625	-21.4	73	0.00	5.02
17	P	2-Methylphenol	1.389	1.457	-4.9	62	0.00	5.03
18	P	Acetophenone	2.177	2.364	-8.6	64	0.00	5.11
19	P	Hexachloroethane	0.675	0.748	-10.8	65	0.00	5.17
20	P	N-Nitroso-di-n-propylamin	1.014	1.209	-19.2	69	0.00	5.15
21	P	3&4-Methylphenol	1.410	1.398	0.9	58	0.00	5.16
22	I	Naphthalene-d8	1.000	1.000	0.0	61	0.00	5.85
23	S	Nitrobenzene-d5	0.551	0.567	-2.9	63	-0.02	5.24
24	P	Nitrobenzene	0.492	0.537	-9.1	68	-0.02	5.25
25	P	Isophorone	0.875	0.956	-9.3	66	-0.01	5.46
26	P	2-Nitrophenol	0.231	0.223	3.5	57	-0.01	5.54
27	P	2,4-Dimethylphenol	0.458	0.488	-6.6	65	0.00	5.61
28		O,O,O-Triethylphosphoroth	0.232	0.232	0.0	61	0.00	5.70
29	P	bis(2-Chloroethoxy)methan	0.649	0.688	-6.0	64	0.00	5.68
30		Benzoic Acid	0.302	0.317	-5.0	61	-0.02	5.76
31	P	2,4-Dichlorophenol	0.352	0.345	2.0	62	0.00	5.76
32		1,2,4-Trichlorobenzene	0.413	0.394	4.6	58	0.00	5.82
33		alpha-Terpineol		----------NA----------				
34	P	Naphthalene	0.991	1.031	-4.0	65	0.00	5.87
35	P	4-Chloroaniline	0.478	0.461	3.6	58	0.00	5.95
36		2,6-Dichlorophenol	0.347	0.356	-2.6	62	0.00	5.96
37	P	Hexachlorobutadiene	0.266	0.267	-0.4	60	0.00	6.04

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-ECC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685852.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

38	P	Caprolactam	0.133	0.129	3.0	59	0.00	6.25
39	P	4-Chloro-3-methylphenol	0.401	0.420	-4.7	63	0.00	6.42
40	P	2-Methylnaphthalene	0.789	0.783	0.8	61	0.00	6.49
41		1-Methylnaphthalene	0.718	0.714	0.6	62	0.00	6.58
42	P	1,2,4,5-Tetrachlorobenzen	0.448	0.442	1.3	62	0.00	6.67
43	I	Acenaphthene-d10	1.000	1.000	0.0	63	0.00	7.43
44	P	Hexachlorocyclopentadiene	0.458	0.441	3.7	60	0.00	6.69
45	P	2,4,6-Trichlorophenol	0.433	0.418	3.5	59	0.00	6.78
46	P	2,4,5-Trichlorophenol	0.442	0.430	2.7	60	0.00	6.82
47	S	2-Fluorobiphenyl	1.381	1.274	7.7	59	0.00	6.84
48	P	1,1'-Biphenyl	1.469	1.484	-1.0	65	0.00	6.91
49	P	2-Chloronaphthalene	1.150	1.149	0.1	64	-0.01	6.91
50	P	2-Nitroaniline	0.437	0.463	-5.9	65	-0.01	7.05
51		p-Dinitrobenzene	0.323	0.355	-9.9	67	0.00	7.15
52	P	Acenaphthylene	1.690	1.649	2.4	64	0.00	7.29
53	P	Dimethylphthalate	1.389	1.371	1.3	62	0.00	7.25
54		m-Dinitrobenzene	0.244	0.230	5.7	60	0.00	7.26
55	P	2,6-Dinitrotoluene	0.322	0.291	9.6	57	0.00	7.30
56		o-Dinitrobenzene	0.225	0.264	-17.3	75	0.00	7.36
57	P	Acenaphthene	1.053	1.054	-0.1	62	0.00	7.46
58	P	3-Nitroaniline	0.360	0.331	8.1	56	0.00	7.43
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol	50.000	42.958	14.1	53	0.00	7.51
		----------	AvgRF	CCRF	%Dev	----------		
60	P	Dibenzofuran	1.602	1.622	-1.2	64	0.00	7.60
61	P	2,4-Dinitrotoluene	0.434	0.419	3.5	58	0.00	7.65
62	P	4-Nitrophenol	0.306	0.340	-11.1	65	0.00	7.62
63		2,3,5,6-Tetrachlorophenol	0.412	0.394	4.4	59	0.00	7.72
64	P	2,3,4,6-Tetrachlorophenol	0.396	0.376	5.1	59	0.00	7.76
65	P	Fluorene	1.347	1.318	2.2	62	0.00	7.91
66	P	4-Chlorophenyl-phenylethe	0.723	0.672	7.1	58	0.00	7.92
67	P	Diethylphthalate	1.390	1.375	1.1	62	0.00	7.88
68		Thionazin	0.335	0.339	-1.2	64	0.00	7.96
69	P	4-Nitroaniline	0.333	0.312	6.3	58	0.00	7.98
70	I	Phenanthrene-d10	1.000	1.000	0.0	60	0.00	8.74
71	P	4,6-Dinitro-2-methylpheno	0.162	0.153	5.6	55	-0.01	8.01
72	P	n-Nitrosodiphenylamine	0.508	0.513	-1.0	62	0.00	8.04
73		Diphenylamine	0.610	0.616	-1.0	62	0.00	8.04
74		1,2-Diphenylhydrazine	0.840	0.949	-13.0	68	0.00	8.06
75	S	2,4,6-Tribromophenol	0.140	0.133	5.0	57	0.00	8.15
76		Sulfotep	0.166	0.184	-10.8	67	0.00	8.28
77		Phorate	0.531	0.578	-8.9	67	0.00	8.33
78	P	4-Bromophenyl-phenylether	0.240	0.239	0.4	61	-0.01	8.35
79	P	Hexachlorobenzene	0.284	0.280	1.4	59	0.00	8.47
80		Dimethoate	0.333	0.334	-0.3	61	0.00	8.49
81		Simazine	0.148	0.092	37.8	38#	0.00	8.52
82	P	Atrazine	0.246	0.243	1.2	60	0.00	8.55
83	P	Pentachlorophenol	0.170	0.178	-4.7	59	0.00	8.64
84	P	Phenanthrene	1.038	1.075	-3.6	63	-0.01	8.76
85	P	Anthracene	1.053	1.114	-5.8	64	0.00	8.80
86		Disulfoton	0.429	0.468	-9.1	65	0.00	8.80
87	P	Carbazole	1.016	0.989	2.7	60	0.00	8.96
88		Methyl Parathion	0.293	0.305	-4.1	62	0.00	9.13
89	P	Di-n-butylphthalate	1.252	1.323	-5.7	64	0.00	9.33
90		Ethyl Parathion	0.197	0.220	-11.7	66	0.00	9.49
91	P	Fluoranthene	1.317	1.370	-4.0	64	0.00	9.82

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-ECC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685852.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

92	I	Chrysene-d12	1.000	1.000	0.0	60	-0.01	11.34
		----------	Amount	Calc.	%Drift		----------	
93		Benzidine	50.000	40.406	19.2	49	0.00	9.96
		----------	AvgRF	CCRF	%Dev		----------	
94	P	Pyrene	1.210	1.235	-2.1	63	0.00	10.02
95	S	Terphenyl-d14	0.932	0.910	2.4	60	0.00	10.19
96		Famphur	0.518	0.539	-4.1	63	0.00	10.69
97	P	Butylbenzylphthalate	0.567	0.589	-3.9	63	0.00	10.74
98	P	3,3'-Dichlorobenzidine	0.464	0.465	-0.2	60	0.00	11.33
99	P	Benzo[a]anthracene	1.237	1.261	-1.9	62	0.00	11.32
100	P	Chrysene	0.985	1.008	-2.3	62	-0.01	11.38
101	P	bis(2-Ethylhexyl)phthalat	0.766	0.807	-5.4	63	0.00	11.52
102	I	Perylene-d12	1.000	1.000	0.0	60	-0.02	13.61
103	P	Di-n-octylphthalate	1.419	1.527	-7.6	65	0.00	12.48
104	P	Benzo[b]fluoranthene	1.260	1.249	0.9	60	0.00	12.96
105	P	Benzo[k]fluoranthene	1.091	1.125	-3.1	64	-0.01	13.00
106	P	Benzo[a]pyrene	1.206	1.226	-1.7	62	-0.01	13.51
107	P	Indeno[1,2,3-cd]pyrene	1.109	1.163	-4.9	63	-0.01	15.66
108	P	Dibenz[a,h]anthracene	1.030	1.052	-2.1	62	-0.02	15.73
109	P	Benzo[g,h,i]perylene	1.127	1.163	-3.2	62	-0.02	16.15

(#) = Out of Range SPCC's out = 0 CCC's out = 0
L0685436.D 8270daOP.m Fri Mar 11 10:35:55 2016

7.7.12

7

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-ECC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685853.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sl3797\L0685853.D          Vial: 30
Acq On    : 11 Mar 2016   4:28 am                    Operator: nareshj
Sample    : ecc3781-25,benzidine                     Inst    : MSBNA02
Misc      : op59028,sl3797,1000,,,1,1,water          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Thu Mar 10 15:52:55 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.00	4.71
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine		NA				
			Amount	Calc.	%Drift			
5	P	Benzaldehyde		NA				
			AvgRF	CCRF	%Dev			
6		Aniline		NA				
7	S	2-Fluorophenol		NA				
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol		NA				
16	P	bis(2-chloroisopropyl)eth		NA				
17	P	2-Methylphenol		NA				
18	P	Acetophenone		NA				
19	P	Hexachloroethane		NA				
20	P	N-Nitroso-di-n-propylamin		NA				
21	P	3&4-Methylphenol		NA				
22	I	Naphthalene-d8	1.000	1.000	0.0	77	0.00	5.85
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28		O,O,O-Triethylphosphoroth		NA				
29	P	bis(2-Chloroethoxy)methan		NA				
30		Benzoic Acid		NA				
31	P	2,4-Dichlorophenol		NA				
32		1,2,4-Trichlorobenzene		NA				
33		alpha-Terpineol		NA				
34	P	Naphthalene		NA				
35	P	4-Chloroaniline		NA				
36		2,6-Dichlorophenol		NA				
37	P	Hexachlorobutadiene		NA				

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-ECC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685853.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

38	P	Caprolactam		----------NA----------				
39	P	4-Chloro-3-methylphenol		----------NA----------				
40	P	2-Methylnaphthalene		----------NA----------				
41		1-Methylnaphthalene		----------NA----------				
42	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
43	I	Acenaphthene-d10	1.000	1.000	0.0	75	0.00	7.42
44	P	Hexachlorocyclopentadiene		----------NA----------				
45	P	2,4,6-Trichlorophenol		----------NA----------				
46	P	2,4,5-Trichlorophenol		----------NA----------				
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl		----------NA----------				
49	P	2-Chloronaphthalene		----------NA----------				
50	P	2-Nitroaniline		----------NA----------				
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene		----------NA----------				
53	P	Dimethylphthalate		----------NA----------				
54		m-Dinitrobenzene		----------NA----------				
55	P	2,6-Dinitrotoluene		----------NA----------				
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene		----------NA----------				
58	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
60	P	Dibenzofuran		----------NA----------				
61	P	2,4-Dinitrotoluene		----------NA----------				
62	P	4-Nitrophenol		----------NA----------				
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
65	P	Fluorene		----------NA----------				
66	P	4-Chlorophenyl-phenylethe		----------NA----------				
67	P	Diethylphthalate		----------NA----------				
68		Thionazin		----------NA----------				
69	P	4-Nitroaniline		----------NA----------				
70	I	Phenanthrene-d10	1.000	1.000	0.0	70	0.00	8.73
71	P	4,6-Dinitro-2-methylpheno		----------NA----------				
72	P	n-Nitrosodiphenylamine		----------NA----------				
73		Diphenylamine		----------NA----------				
74		1,2-Diphenylhydrazine		----------NA----------				
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep		----------NA----------				
77		Phorate		----------NA----------				
78	P	4-Bromophenyl-phenylether		----------NA----------				
79	P	Hexachlorobenzene		----------NA----------				
80		Dimethoate		----------NA----------				
81		Simazine		----------NA----------				
82	P	Atrazine		----------NA----------				
83	P	Pentachlorophenol		----------NA----------				
84	P	Phenanthrene		----------NA----------				
85	P	Anthracene		----------NA----------				
86		Disulfoton		----------NA----------				
87	P	Carbazole		----------NA----------				
88		Methyl Parathion		----------NA----------				
89	P	Di-n-butylphthalate		----------NA----------				
90		Ethyl Parathion		----------NA----------				
91	P	Fluoranthene		----------NA----------				

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SL3797-ECC3781
Account: URSNCM AECOM, INC. **Lab FileID:** L0685853.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

```
 92 I   Chrysene-d12                1.000   1.000      0.0   72  -0.02   11.33

            ----------------------- Amount  Calc.    %Drift   -------------
 93     Benzidine                  25.000  32.509    -30.0   84   0.00    9.96

            ----------------------- AvgRF   CCRF      %Dev   --------------
 94 P   Pyrene                              ----------NA----------
 95 S   Terphenyl-d14                       ----------NA----------
 96     Famphur                             ----------NA----------
 97 P   Butylbenzylphthalate                ----------NA----------
 98 P   3,3'-Dichlorobenzidine              ----------NA----------
 99 P   Benzo[a]anthracene                  ----------NA----------
100 P   Chrysene                            ----------NA----------
101 P   bis(2-Ethylhexyl)phthalat           ----------NA----------

102 I   Perylene-d12               1.000   1.000      0.0   70  -0.02   13.60
103 P   Di-n-octylphthalate                 ----------NA----------
104 P   Benzo[b]fluoranthene                ----------NA----------
105 P   Benzo[k]fluoranthene                ----------NA----------
106 P   Benzo[a]pyrene                      ----------NA----------
107 P   Indeno[1,2,3-cd]pyrene              ----------NA----------
108 P   Dibenz[a,h]anthracene               ----------NA----------
109 P   Benzo[g,h,i]perylene                ----------NA----------
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range              SPCC's out = 65  CCC's out = 0
     L0685435.D 8270daOP.m       Fri Mar 11 10:35:43 2016
```

7.7.13

7

Initial Calibration Summary

Job Number: FA31827 **Sample:** SX1995-ICC1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044541.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Response Factor Report MSBNA05

Method : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Tue Feb 16 15:51:26 2016
Response via : Initial Calibration

Calibration Files
5 =x044538.D 10 =x044539.D 25 =x044540.D 50 =x044541.D
60 =x044542.D 75 =x044543.D 100 =x044544.D

Compound	5	10	25	50	60	75	100	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	----------ISTD----------								
2) 1,4-Dioxane	0.608	0.618	0.574	0.580	0.544	0.548	0.548	0.574	5.19
3) N-nitrosodimethyl	0.544	0.706	0.720	0.745	0.734	0.734	0.736	0.703	10.12
4) Pyridine	1.329	1.499	1.463	1.520	1.414	1.474	1.468	1.452	4.37
5)P Benzaldehyde	1.103	1.146	0.993	0.687	0.624	0.536		0.848	31.12
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9923									
Response Ratio = 0.00000 + 1.11961 *A + -0.31946 *A^2									
6) Aniline	1.928	2.099	2.014	2.003	1.901	1.944	1.908	1.971	3.62
7)S 2-Fluorophenol	1.256	1.420	1.364	1.333	1.266	1.276	1.222	1.305	5.34
8)P bis(2-Chloroethyl	1.384	1.419	1.378	1.371	1.273	1.305	1.285	1.345	4.19
9)S Phenol-d5	1.716	1.827	1.723	1.690	1.588	1.610	1.540	1.671	5.84
10)P Phenol	1.681	1.805	1.684	1.586	1.510	1.632	1.572	1.639	5.86
11)P 2-Chlorophenol	1.374	1.471	1.402	1.406	1.345	1.386	1.365	1.393	2.91
12) 1,3-Dichlorobenze	1.617	1.692	1.574	1.587	1.482	1.552	1.473	1.568	4.87
13) 1,4-Dichlorobenze	1.640	1.700	1.615	1.614	1.516	1.547	1.510	1.592	4.41
14) 1,2-Dichlorobenze	1.522	1.626	1.529	1.497	1.419	1.446	1.408	1.492	5.08
15) Benzyl alcohol	0.759	0.857	0.890	0.905	0.853	0.876	0.875	0.859	5.58
16)P bis(2-chloroisopr	2.451	2.600	2.329	2.160	2.012	1.949	1.818	2.188	12.99
17)P 2-Methylphenol	1.176	1.290	1.213	1.241	1.171	1.198	1.193	1.212	3.44
18)P Acetophenone	1.903	2.003	1.933	1.902	1.846	1.869	1.821	1.897	3.17
19)P Hexachloroethane	0.712	0.734	0.695	0.698	0.656	0.677	0.646	0.688	4.51
20)P N-Nitroso-di-n-pr	0.643	0.678	0.656	0.625	0.604	0.604	0.589	0.628	5.12
21)P 3&4-Methylphenol	1.171	1.353	1.318	1.330	1.259	1.293	1.263	1.284	4.70
22) I Naphthalene-d8	----------ISTD----------								
23)S Nitrobenzene-d5	0.492	0.533	0.503	0.496	0.476	0.474	0.462	0.491	4.79
24)P Nitrobenzene	0.445	0.482	0.453	0.446	0.424	0.419	0.405	0.439	5.78
25)P Isophorone	0.779	0.850	0.791	0.763	0.733	0.739	0.734	0.770	5.44
26)P 2-Nitrophenol	0.189	0.204	0.203	0.206	0.203	0.207	0.205	0.202	2.94
27)P 2,4-Dimethylpheno	0.401	0.428	0.396	0.382	0.367	0.370	0.360	0.386	6.21
28) O,O,O-Triethylpho	0.200	0.202	0.199	0.200	0.200	0.205	0.204	0.201	1.23
29)P bis(2-Chloroethox	0.451	0.471	0.445	0.439	0.415	0.427	0.406	0.437	5.11
30) Benzoic Acid	0.139	0.219	0.294	0.332	0.329	0.338	0.340	0.284	27.17
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988									
Response Ratio = 0.00000 + 0.30295 *A + 0.01606 *A^2									
31)P 2,4-Dichloropheno	0.318	0.350	0.335	0.340	0.323	0.335	0.328	0.333	3.25
32) 1,2,4-Trichlorobe	0.365	0.381	0.365	0.366	0.363	0.368	0.359	0.367	1.83
33) alpha-Terpineol								0.000	-1.00
34)P Naphthalene	1.126	1.191	1.112	1.035	0.972	0.934	0.855	1.032	11.54
35)P 4-Chloroaniline	0.460	0.498	0.462	0.468	0.445	0.455	0.432	0.460	4.44
36) 2,6-Dichloropheno	0.319	0.358	0.333	0.344	0.328	0.342	0.333	0.337	3.72
37)P Hexachlorobutadie	0.236	0.266	0.248	0.258	0.246	0.257	0.250	0.252	3.86
38)P Caprolactam	0.096	0.119	0.115	0.115	0.116	0.119	0.115	0.114	7.19
39)P 4-Chloro-3-methyl	0.332	0.369	0.352	0.352	0.341	0.344	0.334	0.346	3.69

Initial Calibration Summary

Job Number: FA31827 **Sample:** SX1995-ICC1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044541.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

40)P	2-Methylnaphthale	0.729	0.768	0.738	0.729	0.692	0.679	0.651	0.713	5.62
41)	1-Methylnaphthale	0.663	0.722	0.676	0.664	0.640	0.631	0.607	0.658	5.63
42)P	1,2,4,5-Tetrachlo	0.406	0.439	0.421	0.430	0.408	0.417	0.408	0.418	3.01
43) I	Acenaphthene-d10	----------ISTD----------								
44)P	Hexachlorocyclope	0.329	0.377	0.389	0.422	0.407	0.433	0.433	0.399	9.35
45)P	2,4,6-Trichloroph	0.401	0.436	0.422	0.441	0.414	0.432	0.443	0.427	3.57
46)P	2,4,5-Trichloroph	0.400	0.440	0.430	0.470	0.436	0.457	0.455	0.441	5.16
47)S	2-Fluorobiphenyl	1.554	1.624	1.534	1.480	1.387	1.384	1.286	1.464	8.04
48)P	1,1'-Biphenyl	1.501	1.578	1.467	1.412	1.354	1.292	1.194	1.400	9.34
49)P	2-Chloronaphthale	1.200	1.229	1.188	1.154	1.099	1.084	1.059	1.145	5.68
50)P	2-Nitroaniline	0.408	0.463	0.436	0.442	0.414	0.407	0.404	0.425	5.28
51)	p-Dinitrobenzene	0.228	0.266	0.275	0.277	0.265	0.267	0.265	0.263	6.24
52)P	Acenaphthylene	1.832	1.923	1.803	1.723	1.620	1.561	1.484	1.706	9.28
53)P	Dimethylphthalate	1.324	1.400	1.357	1.317	1.247	1.231	1.213	1.298	5.38
54)	m-Dinitrobenzene	0.204	0.223	0.227	0.232	0.222	0.230	0.227	0.224	4.20
55)P	2,6-Dinitrotoluen	0.317	0.320	0.313	0.320	0.299	0.309	0.312	0.313	2.30
56)	o-Dinitrobenzene	0.340	0.352	0.321	0.299	0.281	0.271	0.262	0.304	11.50
57)P	Acenaphthene	1.183	1.270	1.185	1.156	1.087	1.080	1.036	1.142	6.99
58)P	3-Nitroaniline	0.300	0.330	0.335	0.338	0.321	0.328	0.333	0.326	4.00
59)P	2,4-Dinitrophenol	0.035	0.112	0.165	0.206	0.200	0.216	0.231	0.166	42.15
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9982									
	Response Ratio = 0.00000 + 0.15762 *A + 0.02988 *A^2									
60)P	Dibenzofuran	1.723	1.788	1.673	1.570	1.460	1.431	1.352	1.571	10.42
61)P	2,4-Dinitrotoluen	0.394	0.433	0.422	0.431	0.404	0.410	0.409	0.415	3.46
62)P	4-Nitrophenol	0.137	0.194	0.220	0.222	0.207	0.204	0.194	0.197	14.57
63)	2,3,5,6-Tetrachlo	0.305	0.345	0.364	0.376	0.364	0.382	0.387	0.360	7.83
64)P	2,3,4,6-Tetrachlo	0.299	0.354	0.352	0.369	0.361	0.380	0.381	0.357	7.85
65)P	Fluorene	1.358	1.462	1.375	1.333	1.251	1.221	1.138	1.305	8.32
66)P	4-Chlorophenyl-ph	0.707	0.760	0.736	0.733	0.699	0.698	0.677	0.716	3.93
67)P	Diethylphthalate	1.361	1.452	1.377	1.341	1.270	1.271	1.215	1.327	6.04
68)	Thionazin	0.315	0.341	0.325	0.318	0.305	0.292	0.274	0.310	7.12
69)P	4-Nitroaniline	0.275	0.331	0.305	0.309	0.290	0.293	0.293	0.299	5.91
70) I	Phenanthrene-d10	----------ISTD----------								
71)P	4,6-Dinitro-2-met	0.094	0.126	0.152	0.156	0.155	0.159	0.163	0.144	17.42
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
	Response Ratio = 0.00000 + 0.14448 *A + 0.00767 *A^2									
72)P	n-Nitrosodiphenyl	0.578	0.611	0.577	0.553	0.533	0.523	0.505	0.554	6.62
73)	Diphenylamine	0.694	0.733	0.693	0.663	0.639	0.628	0.606	0.665	6.62
74)	1,2-Diphenylhydra	0.839	0.880	0.823	0.746	0.706	0.671	0.628	0.756	12.42
75)S	2,4,6-Tribromophe	0.062	0.070	0.076	0.081	0.080	0.084	0.090	0.078	11.87
76)	Sulfotep	0.152	0.153	0.149	0.137	0.136	0.128	0.122	0.140	8.62
77)	Phorate	0.452	0.481	0.455	0.426	0.418	0.399	0.378	0.430	8.28
78)P	4-Bromophenyl-phe	0.203	0.222	0.219	0.217	0.215	0.224	0.227	0.218	3.66
79)P	Hexachlorobenzene	0.175	0.188	0.186	0.196	0.198	0.207	0.210	0.194	6.29
80)	Dimethoate	0.285	0.302	0.289	0.267	0.267	0.248	0.250	0.272	7.50
81)	Simazine	0.137	0.136	0.134	0.132	0.128	0.129	0.127	0.132	2.83
82)P	Atrazine	0.246	0.249	0.236	0.225	0.251	0.245	0.230	0.240	4.11
83)P	Pentachlorophenol	0.077	0.103	0.124	0.140	0.140	0.149	0.150	0.126	21.52
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9990									
	Response Ratio = 0.00000 + 0.12443 *A + 0.01085 *A^2									
84)P	Phenanthrene	1.198	1.242	1.152	1.040	0.996	0.943	0.870	1.063	13.02
85)P	Anthracene	1.182	1.261	1.186	1.078	1.022	0.971	0.883	1.083	12.41
86)	Disulfoton	0.536	0.517	0.463	0.424	0.420	0.405	0.384	0.450	12.86
87)P	Carbazole	1.051	1.128	1.014	0.960	0.930	0.889	0.848	0.974	9.95
88)	Methyl Parathion	0.240	0.277	0.280	0.267	0.266	0.254	0.252	0.262	5.47

Initial Calibration Summary

Job Number: FA31827 **Sample:** SX1995-ICC1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044541.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

```
 89)P Di-n-butylphthala 1.284 1.361 1.273 1.127 1.056 0.989 0.900 1.142  14.96
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
               Response Ratio = 0.00000 + 1.33684 *A + -0.17747 *A^2

 90)  Ethyl Parathion   0.152 0.178 0.176 0.167 0.171 0.164 0.163 0.167   5.19
 91)P Fluoranthene      1.289 1.374 1.275 1.156 1.104 1.048 0.985 1.176  12.05

 92) I   Chrysene-d12          ----------------ISTD---------------------
 93)  Benzidine         0.592 0.612 0.448 0.334 0.291 0.260       0.423  36.15
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9914
               Response Ratio = 0.00000 + 0.52684 *A + -0.14729 *A^2

 94)P Pyrene            1.299 1.360 1.236 1.171 1.114 1.056 0.987 1.175  11.35
 95)S Terphenyl-d14     0.782 0.831 0.790 0.794 0.769 0.768 0.748 0.783   3.34
 96)  Famphur           0.438 0.474 0.422 0.384 0.381 0.366 0.317 0.398  12.95
 97)P Butylbenzylphthal 0.530 0.577 0.538 0.531 0.517 0.514 0.503 0.530   4.52
 98)P 3,3'-Dichlorobenz 0.349 0.366 0.343 0.318 0.300 0.300 0.297 0.325   8.65
 99)P Benzo[a]anthracen 1.173 1.234 1.174 1.153 1.107 1.120 1.096 1.151   4.17
100)P Chrysene          1.076 1.173 1.105 1.082 1.045 1.034 1.010 1.075   4.98
101)P bis(2-Ethylhexyl) 0.718 0.789 0.758 0.730 0.717 0.705 0.678 0.728   5.01

102) I   Perylene-d12          ----------------ISTD---------------------
103)P Di-n-octylphthala 1.429 1.585 1.547 1.589 1.508 1.513 1.477 1.521   3.79
104)P Benzo[b]fluoranth 1.076 1.210 1.208 1.211 1.169 1.197 1.256 1.190   4.74
105)P Benzo[k]fluoranth 1.167 1.284 1.277 1.307 1.246 1.276 1.271 1.261   3.59
106)P Benzo[a]pyrene    1.086 1.210 1.195 1.220 1.177 1.208 1.225 1.189   4.05
107)P Indeno[1,2,3-cd]p 0.781 0.852 0.859 0.814 0.796 0.817 0.830 0.821   3.44
108)P Dibenz[a,h]anthra 0.750 0.849 0.899 0.873 0.845 0.890 0.906 0.859   6.24
109)P Benzo[g,h,i]peryl 0.894 0.962 0.945 0.880 0.847 0.879 0.899 0.901   4.44
 ----------------------------------------------------------------------------
 (#) = Out of Range

           8270daOP.m        Wed Feb 17 13:49:41 2016
```

7.7.14

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044545.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\sx1995\x044545.D Vial: 10
Acq On : 16 Feb 2016 12:09 pm Operator: marthav
Sample : icv1995-50 Inst : MSBNA05
Misc : op59237,sx1995,1000,,,1,1,water Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title : SW846 8270D OR EPA 625
Last Update : Tue Feb 16 15:51:26 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	100	0.00	5.05
2		1,4-Dioxane	50.000	46.060	7.9	91	0.05	2.37
3		N-nitrosodimethylamine	50.000	55.231	-10.5	104	0.03	2.68
4		Pyridine		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
6		Aniline		----------NA----------				
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether	50.000	45.713	8.6	89	0.00	4.84
9	S	Phenol-d5		----------NA----------				
10	P	Phenol	50.000	46.174	7.7	95	0.00	4.81
11	P	2-Chlorophenol	50.000	48.053	3.9	95	0.00	4.89
12		1,3-Dichlorobenzene	50.000	47.668	4.7	94	0.00	5.00
13		1,4-Dichlorobenzene	50.000	48.608	2.8	96	0.00	5.07
14		1,2-Dichlorobenzene	50.000	49.062	1.9	98	0.00	5.20
15		Benzyl alcohol		----------NA----------				
16	P	bis(2-chloroisopropyl)eth	50.000	48.115	3.8	97	0.00	5.30
17	P	2-Methylphenol	50.000	46.015	8.0	90	0.00	5.31
18	P	Acetophenone	50.000	47.449	5.1	94	0.00	5.41
19	P	Hexachloroethane	50.000	47.939	4.1	94	0.00	5.49
20	P	N-Nitroso-di-n-propylamin	50.000	48.256	3.5	97	0.00	5.42
21	P	3&4-Methylphenol	100.000	93.313	6.7	97	0.00	5.45
22	I	Naphthalene-d8	40.000	40.000	0.0	99	0.00	6.16
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene	50.000	48.192	3.6	94	0.00	5.55
25	P	Isophorone	50.000	47.439	5.1	95	0.00	5.77
26	P	2-Nitrophenol	50.000	49.560	0.9	96	0.00	5.83
27	P	2,4-Dimethylphenol	50.000	40.842	18.3	82	0.00	5.89
28		O,O,O-Triethylphosphoroth		----------NA----------				
29	P	bis(2-Chloroethoxy)methan	50.000	47.668	4.7	94	0.00	5.96
		----------	Amount	Calc.	%Drift		----------	
30		Benzoic Acid	100.000	94.729	5.3	97	0.03	6.08
		----------	Amount	Calc.	%Drift		----------	
31	P	2,4-Dichlorophenol	50.000	47.701	4.6	92	0.00	6.06
32		1,2,4-Trichlorobenzene	50.000	48.009	4.0	95	0.00	6.11
33		alpha-Terpineol		----------NA----------				

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044545.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

34	P	Naphthalene	50.000	48.359	3.3	95	0.00	6.18
35	P	4-Chloroaniline		----------NA----------				
36		2,6-Dichlorophenol	50.000	47.338	5.3	92	0.00	6.24
37	P	Hexachlorobutadiene	50.000	48.437	3.1	93	0.00	6.29
38	P	Caprolactam	50.000	47.563	4.9	93	-0.01	6.58
39	P	4-Chloro-3-methylphenol	50.000	47.126	5.7	92	0.00	6.70
40	P	2-Methylnaphthalene		----------NA----------				
41		1-Methylnaphthalene	50.000	48.808	2.4	96	0.00	6.88
42	P	1,2,4,5-Tetrachlorobenzen	50.000	46.012	8.0	89	0.00	6.94
43	I	Acenaphthene-d10	40.000	40.000	0.0	100	0.00	7.71
44	P	Hexachlorocyclopentadiene	50.000	53.511	-7.0	101	0.00	6.93
45	P	2,4,6-Trichlorophenol	50.000	48.805	2.4	94	0.00	7.05
46	P	2,4,5-Trichlorophenol	50.000	49.938	0.1	94	0.00	7.10
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl	50.000	47.270	5.5	94	0.00	7.21
49	P	2-Chloronaphthalene	50.000	47.038	5.9	93	0.00	7.22
50	P	2-Nitroaniline		----------NA----------				
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene	50.000	48.573	2.9	96	0.00	7.59
53	P	Dimethylphthalate	50.000	47.548	4.9	94	-0.01	7.49
54		m-Dinitrobenzene		----------NA----------				
55	P	2,6-Dinitrotoluene	50.000	46.446	7.1	91	0.00	7.54
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene	50.000	53.126	-6.3	105	0.00	7.74
58	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
59	P	2,4-Dinitrophenol	100.000	91.720	8.3	93	0.00	7.78
		----------	Amount	Calc.	%Drift		----------	
60	P	Dibenzofuran		----------NA----------				
61	P	2,4-Dinitrotoluene	50.000	48.944	2.1	94	0.00	7.90
62	P	4-Nitrophenol	100.000	102.168	-2.2	107	0.00	7.89
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol	50.000	44.381	11.2	86	0.00	8.02
65	P	Fluorene	50.000	52.619	-5.2	103	0.00	8.20
66	P	4-Chlorophenyl-phenylethe	50.000	47.469	5.1	93	0.00	8.21
67	P	Diethylphthalate	50.000	46.938	6.1	93	0.00	8.13
68		Thionazin		----------NA----------				
69	P	4-Nitroaniline		----------NA----------				
70	I	Phenanthrene-d10	40.000	40.000	0.0	96	0.00	9.04
		----------	Amount	Calc.	%Drift		----------	
71	P	4,6-Dinitro-2-methylpheno	100.000	103.599	-3.6	104	0.00	8.26
		----------	Amount	Calc.	%Drift		----------	
72	P	n-Nitrosodiphenylamine	50.000	46.033	7.9	74	0.00	8.32
73		Diphenylamine		----------NA----------				
74		1,2-Diphenylhydrazine	50.000	49.165	1.7	96	0.00	8.35
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep		----------NA----------				
77		Phorate		----------NA----------				
78	P	4-Bromophenyl-phenylether	50.000	47.720	4.6	92	0.00	8.64
79	P	Hexachlorobenzene	50.000	46.314	7.4	88	0.00	8.69
80		Dimethoate		----------NA----------				
81		Simazine		----------NA----------				
82	P	Atrazine	50.000	46.324	7.4	95	0.00	8.81

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044545.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
83	P	Pentachlorophenol	100.000	96.114	3.9	96	0.00	8.88
			Amount	Calc.	%Drift			
84	P	Phenanthrene	50.000	53.014	-6.0	104	0.00	9.06
85	P	Anthracene	50.000	53.931	-7.9	104	0.00	9.11
86		Disulfoton		NA				
87	P	Carbazole		NA				
88		Methyl Parathion		NA				
			Amount	Calc.	%Drift			
89	P	Di-n-butylphthalate	50.000	50.275	-0.5	95	0.00	9.58
			Amount	Calc.	%Drift			
90		Ethyl Parathion		NA				
91	P	Fluoranthene	50.000	46.894	6.2	91	0.00	10.12
92	I	Chrysene-d12	40.000	40.000	0.0	95	0.00	11.81
			Amount	Calc.	%Drift			
93		Benzidine		NA				
			Amount	Calc.	%Drift			
94	P	Pyrene	50.000	53.724	-7.4	102	0.00	10.34
95	S	Terphenyl-d14		NA				
96		Famphur		NA				
97	P	Butylbenzylphthalate	50.000	48.040	3.9	91	0.00	11.07
98	P	3,3'-Dichlorobenzidine		NA				
99	P	Benzo[a]anthracene	50.000	53.139	-6.3	101	0.00	11.79
100	P	Chrysene	50.000	56.105	-12.2	106	0.00	11.85
101	P	bis(2-Ethylhexyl)phthalat	50.000	50.045	-0.1	95	0.00	11.92
102	I	Perylene-d12	40.000	40.000	0.0	97	0.00	14.46
103	P	Di-n-octylphthalate	50.000	48.961	2.1	91	0.00	13.11
104	P	Benzo[b]fluoranthene	50.000	55.992	-12.0	106	0.00	13.68
105	P	Benzo[k]fluoranthene	50.000	56.110	-12.2	105	0.00	13.74
106	P	Benzo[a]pyrene	50.000	55.395	-10.8	104	0.00	14.34
107	P	Indeno[1,2,3-cd]pyrene	50.000	51.292	-2.6	100	0.00	16.75
108	P	Dibenz[a,h]anthracene	50.000	54.322	-8.6	103	0.00	16.83
109	P	Benzo[g,h,i]perylene	50.000	48.511	3.0	96	0.00	17.29

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x044541.D 8270daOP.m Wed Feb 17 08:42:48 2016

7.7.15

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044546.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1995\x044546.D          Vial: 11
Acq On    : 16 Feb 2016  12:34 pm                   Operator: marthav
Sample    : icv1995-50                              Inst    : MSBNA05
Misc      : op59237,sx1995,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Feb 16 15:51:26 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	94	0.00	5.05
2		1,4-Dioxane		----------NA----------				
3		N-nitrosodimethylamine		----------NA----------				
4		Pyridine	50.000	49.315	1.4	88	0.00	2.66
		---------- Amount Calc. %Drift ----------						
5	P	Benzaldehyde		----------NA----------				
		---------- Amount Calc. %Drift ----------						
6		Aniline	50.000	51.512	-3.0	95	0.00	4.78
7	S	2-Fluorophenol		----------NA----------				
8	P	bis(2-Chloroethyl)ether		----------NA----------				
9	S	Phenol-d5		----------NA----------				
10	P	Phenol		----------NA----------				
11	P	2-Chlorophenol		----------NA----------				
12		1,3-Dichlorobenzene		----------NA----------				
13		1,4-Dichlorobenzene		----------NA----------				
14		1,2-Dichlorobenzene		----------NA----------				
15		Benzyl alcohol	50.000	47.623	4.8	85	0.00	5.19
16	P	bis(2-chloroisopropyl)eth		----------NA----------				
17	P	2-Methylphenol		----------NA----------				
18	P	Acetophenone		----------NA----------				
19	P	Hexachloroethane		----------NA----------				
20	P	N-Nitroso-di-n-propylamin		----------NA----------				
21	P	3&4-Methylphenol		----------NA----------				
22	I	Naphthalene-d8	40.000	40.000	0.0	92	0.00	6.16
23	S	Nitrobenzene-d5		----------NA----------				
24	P	Nitrobenzene		----------NA----------				
25	P	Isophorone		----------NA----------				
26	P	2-Nitrophenol		----------NA----------				
27	P	2,4-Dimethylphenol		----------NA----------				
28		O,O,O-Triethylphosphoroth		----------NA----------				
29	P	bis(2-Chloroethoxy)methan		----------NA----------				
		---------- Amount Calc. %Drift ----------						
30		Benzoic Acid		----------NA----------				
		---------- Amount Calc. %Drift ----------						
31	P	2,4-Dichlorophenol		----------NA----------				
32		1,2,4-Trichlorobenzene		----------NA----------				
33		alpha-Terpineol		----------NA----------				

7.7.16

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Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044546.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

34	P	Naphthalene		----------NA----------				
35	P	4-Chloroaniline	50.000	50.085	-0.2	91	0.00	6.24
36		2,6-Dichlorophenol		----------NA----------				
37	P	Hexachlorobutadiene		----------NA----------				
38	P	Caprolactam		----------NA----------				
39	P	4-Chloro-3-methylphenol		----------NA----------				
40	P	2-Methylnaphthalene	50.000	46.890	6.2	85	0.00	6.79
41		1-Methylnaphthalene		----------NA----------				
42	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
43	I	Acenaphthene-d10	40.000	40.000	0.0	93	0.00	7.71
44	P	Hexachlorocyclopentadiene		----------NA----------				
45	P	2,4,6-Trichlorophenol		----------NA----------				
46	P	2,4,5-Trichlorophenol		----------NA----------				
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl		----------NA----------				
49	P	2-Chloronaphthalene		----------NA----------				
50	P	2-Nitroaniline	50.000	50.377	-0.8	90	0.00	7.33
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene		----------NA----------				
53	P	Dimethylphthalate		----------NA----------				
54		m-Dinitrobenzene	50.000	45.989	8.0	82	-0.01	7.51
55	P	2,6-Dinitrotoluene		----------NA----------				
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene		----------NA----------				
58	P	3-Nitroaniline	50.000	50.527	-1.1	91	0.00	7.70
		----------	Amount	Calc.	%Drift		----------	
59	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
60	P	Dibenzofuran	50.000	48.420	3.2	90	0.00	7.90
61	P	2,4-Dinitrotoluene		----------NA----------				
62	P	4-Nitrophenol		----------NA----------				
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
65	P	Fluorene		----------NA----------				
66	P	4-Chlorophenyl-phenylethe		----------NA----------				
67	P	Diethylphthalate		----------NA----------				
68		Thionazin		----------NA----------				
69	P	4-Nitroaniline	50.000	51.701	-3.4	93	-0.02	8.24
70	I	Phenanthrene-d10	40.000	40.000	0.0	89	0.00	9.03
		----------	Amount	Calc.	%Drift		----------	
71	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		----------	Amount	Calc.	%Drift		----------	
72	P	n-Nitrosodiphenylamine		----------NA----------				
73		Diphenylamine	50.000	50.874	-1.7	91	0.00	8.32
74		1,2-Diphenylhydrazine		----------NA----------				
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep		----------NA----------				
77		Phorate		----------NA----------				
78	P	4-Bromophenyl-phenylether		----------NA----------				
79	P	Hexachlorobenzene		----------NA----------				
80		Dimethoate		----------NA----------				
81		Simazine		----------NA----------				
82	P	Atrazine		----------NA----------				

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044546.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
83	P	Pentachlorophenol		NA				
			Amount	Calc.	%Drift			
84	P	Phenanthrene		NA				
85	P	Anthracene		NA				
86		Disulfoton		NA				
87	P	Carbazole	50.000	50.335	-0.7	91	0.00	9.26
88		Methyl Parathion		NA				
			Amount	Calc.	%Drift			
89	P	Di-n-butylphthalate		NA				
			Amount	Calc.	%Drift			
90		Ethyl Parathion		NA				
91	P	Fluoranthene		NA				
92	I	Chrysene-d12	40.000	40.000	0.0	93	-0.01	11.80
			Amount	Calc.	%Drift			
93		Benzidine		NA				
			Amount	Calc.	%Drift			
94	P	Pyrene		NA				
95	S	Terphenyl-d14		NA				
96		Famphur		NA				
97	P	Butylbenzylphthalate		NA				
98	P	3,3'-Dichlorobenzidine	50.000	55.771	-11.5	106	0.00	11.78
99	P	Benzo[a]anthracene		NA				
100	P	Chrysene		NA				
101	P	bis(2-Ethylhexyl)phthalat		NA				
102	I	Perylene-d12	40.000	40.000	0.0	90	-0.01	14.45
103	P	Di-n-octylphthalate		NA				
104	P	Benzo[b]fluoranthene		NA				
105	P	Benzo[k]fluoranthene		NA				
106	P	Benzo[a]pyrene		NA				
107	P	Indeno[1,2,3-cd]pyrene		NA				
108	P	Dibenz[a,h]anthracene		NA				
109	P	Benzo[g,h,i]perylene		NA				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x044541.D 8270daOP.m Wed Feb 17 08:42:50 2016

7.7.16

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044547.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1995\x044547.D          Vial: 12
Acq On    : 16 Feb 2016   1:00 pm                   Operator: marthav
Sample    : icv1995-50                              Inst    : MSBNA05
Misc      : op59237,sx1995,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Feb 16 15:51:26 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	96	0.00	5.05
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine		NA				
			Amount	Calc.	%Drift			
5	P	Benzaldehyde		NA				
			Amount	Calc.	%Drift			
6		Aniline		NA				
7	S	2-Fluorophenol		NA				
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol		NA				
16	P	bis(2-chloroisopropyl)eth		NA				
17	P	2-Methylphenol		NA				
18	P	Acetophenone		NA				
19	P	Hexachloroethane		NA				
20	P	N-Nitroso-di-n-propylamin		NA				
21	P	3&4-Methylphenol		NA				
22	I	Naphthalene-d8	40.000	40.000	0.0	96	0.00	6.16
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28		O,O,O-Triethylphosphoroth	50.000	47.742	4.5	93	0.00	5.93
29	P	bis(2-Chloroethoxy)methan		NA				
			Amount	Calc.	%Drift			
30		Benzoic Acid		NA				
			Amount	Calc.	%Drift			
31	P	2,4-Dichlorophenol		NA				
32		1,2,4-Trichlorobenzene		NA				
33		alpha-Terpineol		NA				

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044547.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

34	P	Naphthalene		----------NA----------				
35	P	4-Chloroaniline		----------NA----------				
36		2,6-Dichlorophenol		----------NA----------				
37	P	Hexachlorobutadiene		----------NA----------				
38	P	Caprolactam		----------NA----------				
39	P	4-Chloro-3-methylphenol		----------NA----------				
40	P	2-Methylnaphthalene		----------NA----------				
41		1-Methylnaphthalene		----------NA----------				
42	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
43	I	Acenaphthene-d10	40.000	40.000	0.0	93	0.00	7.71
44	P	Hexachlorocyclopentadiene		----------NA----------				
45	P	2,4,6-Trichlorophenol		----------NA----------				
46	P	2,4,5-Trichlorophenol		----------NA----------				
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl		----------NA----------				
49	P	2-Chloronaphthalene		----------NA----------				
50	P	2-Nitroaniline		----------NA----------				
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene		----------NA----------				
53	P	Dimethylphthalate		----------NA----------				
54		m-Dinitrobenzene		----------NA----------				
55	P	2,6-Dinitrotoluene		----------NA----------				
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene		----------NA----------				
58	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
60	P	Dibenzofuran		----------NA----------				
61	P	2,4-Dinitrotoluene		----------NA----------				
62	P	4-Nitrophenol		----------NA----------				
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
65	P	Fluorene		----------NA----------				
66	P	4-Chlorophenyl-phenylethe		----------NA----------				
67	P	Diethylphthalate		----------NA----------				
68		Thionazin	50.000	52.563	-5.1	95	-0.01	8.18
69	P	4-Nitroaniline		----------NA----------				
70	I	Phenanthrene-d10	40.000	40.000	0.0	92	0.00	9.03
		----------	Amount	Calc.	%Drift	----------		
71	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
72	P	n-Nitrosodiphenylamine		----------NA----------				
73		Diphenylamine		----------NA----------				
74		1,2-Diphenylhydrazine		----------NA----------				
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep	50.000	50.961	-1.9	95	0.00	8.47
77		Phorate	50.000	54.548	-9.1	101	0.00	8.58
78	P	4-Bromophenyl-phenylether		----------NA----------				
79	P	Hexachlorobenzene		----------NA----------				
80		Dimethoate	50.000	54.945	-9.9	103	0.00	8.74
81		Simazine		----------NA----------				
82	P	Atrazine		----------NA----------				

7.1.17

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044547.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
83	P	Pentachlorophenol		NA				
			Amount	Calc.	%Drift			
84	P	Phenanthrene		NA				
85	P	Anthracene		NA				
86		Disulfoton	50.000	42.997	14.0	84	0.00	9.05
87	P	Carbazole		NA				
88		Methyl Parathion	50.000	52.466	-4.9	95	0.00	9.38
			Amount	Calc.	%Drift			
89	P	Di-n-butylphthalate		NA				
			Amount	Calc.	%Drift			
90		Ethyl Parathion	50.000	52.912	-5.8	97	0.00	9.73
91	P	Fluoranthene		NA				
92	I	Chrysene-d12	40.000	40.000	0.0	89	-0.01	11.80
			Amount	Calc.	%Drift			
93		Benzidine		NA				
			Amount	Calc.	%Drift			
94	P	Pyrene		NA				
95	S	Terphenyl-d14		NA				
96		Famphur	50.000	60.615	-21.2#	112	0.00	11.00
97	P	Butylbenzylphthalate		NA				
98	P	3,3'-Dichlorobenzidine		NA				
99	P	Benzo[a]anthracene		NA				
100	P	Chrysene		NA				
101	P	bis(2-Ethylhexyl)phthalat		NA				
102	I	Perylene-d12	40.000	40.000	0.0	92	-0.01	14.45
103	P	Di-n-octylphthalate		NA				
104	P	Benzo[b]fluoranthene		NA				
105	P	Benzo[k]fluoranthene		NA				
106	P	Benzo[a]pyrene		NA				
107	P	Indeno[1,2,3-cd]pyrene		NA				
108	P	Dibenz[a,h]anthracene		NA				
109	P	Benzo[g,h,i]perylene		NA				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x044541.D 8270daOP.m Wed Feb 17 08:42:52 2016

7.1.17

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044549.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1995\x044549.D          Vial: 14
Acq On    : 16 Feb 2016   4:25 pm                   Operator: marthav
Sample    : icv1995-25 benzaldehyde                 Inst    : MSBNA05
Misc      : op59237,sx1995,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Feb 16 15:51:26 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	98	0.00	5.05
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine		NA				
			Amount	Calc.	%Drift			
5	P	Benzaldehyde	25.000	27.195	-8.8	97	0.00	4.68
			Amount	Calc.	%Drift			
6		Aniline		NA				
7	S	2-Fluorophenol		NA				
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol		NA				
16	P	bis(2-chloroisopropyl)eth		NA				
17	P	2-Methylphenol		NA				
18	P	Acetophenone		NA				
19	P	Hexachloroethane		NA				
20	P	N-Nitroso-di-n-propylamin		NA				
21	P	3&4-Methylphenol		NA				
22	I	Naphthalene-d8	40.000	40.000	0.0	100	0.00	6.16
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28		O,O,O-Triethylphosphoroth		NA				
29	P	bis(2-Chloroethoxy)methan		NA				
			Amount	Calc.	%Drift			
30		Benzoic Acid		NA				
			Amount	Calc.	%Drift			
31	P	2,4-Dichlorophenol		NA				
32		1,2,4-Trichlorobenzene		NA				
33		alpha-Terpineol		NA				

7.7.18

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044549.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

34	P	Naphthalene		----------NA----------				
35	P	4-Chloroaniline		----------NA----------				
36		2,6-Dichlorophenol		----------NA----------				
37	P	Hexachlorobutadiene		----------NA----------				
38	P	Caprolactam		----------NA----------				
39	P	4-Chloro-3-methylphenol		----------NA----------				
40	P	2-Methylnaphthalene		----------NA----------				
41		1-Methylnaphthalene		----------NA----------				
42	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
43	I	Acenaphthene-d10	40.000	40.000	0.0	101	0.00	7.71
44	P	Hexachlorocyclopentadiene		----------NA----------				
45	P	2,4,6-Trichlorophenol		----------NA----------				
46	P	2,4,5-Trichlorophenol		----------NA----------				
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl		----------NA----------				
49	P	2-Chloronaphthalene		----------NA----------				
50	P	2-Nitroaniline		----------NA----------				
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene		----------NA----------				
53	P	Dimethylphthalate		----------NA----------				
54		m-Dinitrobenzene		----------NA----------				
55	P	2,6-Dinitrotoluene		----------NA----------				
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene		----------NA----------				
58	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
60	P	Dibenzofuran		----------NA----------				
61	P	2,4-Dinitrotoluene		----------NA----------				
62	P	4-Nitrophenol		----------NA----------				
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
65	P	Fluorene		----------NA----------				
66	P	4-Chlorophenyl-phenylethe		----------NA----------				
67	P	Diethylphthalate		----------NA----------				
68		Thionazin		----------NA----------				
69	P	4-Nitroaniline		----------NA----------				
70	I	Phenanthrene-d10	40.000	40.000	0.0	99	0.00	9.03
		----------	Amount	Calc.	%Drift	----------		
71	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
72	P	n-Nitrosodiphenylamine		----------NA----------				
73		Diphenylamine		----------NA----------				
74		1,2-Diphenylhydrazine		----------NA----------				
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep		----------NA----------				
77		Phorate		----------NA----------				
78	P	4-Bromophenyl-phenylether		----------NA----------				
79	P	Hexachlorobenzene		----------NA----------				
80		Dimethoate		----------NA----------				
81		Simazine		----------NA----------				
82	P	Atrazine		----------NA----------				

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044549.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift		
83	P	Pentachlorophenol		NA			
			Amount	Calc.	%Drift		
84	P	Phenanthrene		NA			
85	P	Anthracene		NA			
86		Disulfoton		NA			
87	P	Carbazole		NA			
88		Methyl Parathion		NA			
			Amount	Calc.	%Drift		
89	P	Di-n-butylphthalate		NA			
			Amount	Calc.	%Drift		
90		Ethyl Parathion		NA			
91	P	Fluoranthene		NA			
92	I	Chrysene-d12	40.000	40.000	0.0	98	0.00 11.80
			Amount	Calc.	%Drift		
93		Benzidine		NA			
			Amount	Calc.	%Drift		
94	P	Pyrene		NA			
95	S	Terphenyl-d14		NA			
96		Famphur		NA			
97	P	Butylbenzylphthalate		NA			
98	P	3,3'-Dichlorobenzidine		NA			
99	P	Benzo[a]anthracene		NA			
100	P	Chrysene		NA			
101	P	bis(2-Ethylhexyl)phthalat		NA			
102	I	Perylene-d12	40.000	40.000	0.0	99	0.00 14.46
103	P	Di-n-octylphthalate		NA			
104	P	Benzo[b]fluoranthene		NA			
105	P	Benzo[k]fluoranthene		NA			
106	P	Benzo[a]pyrene		NA			
107	P	Indeno[1,2,3-cd]pyrene		NA			
108	P	Dibenz[a,h]anthracene		NA			
109	P	Benzo[g,h,i]perylene		NA			

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x044540.D 8270daOP.m Wed Feb 17 08:33:27 2016

7.7.18

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044550.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx1995\x044550.D          Vial: 15
Acq On    : 16 Feb 2016   4:50 pm                   Operator: marthav
Sample    : icv1995-25 benzidine                    Inst    : MSBNA05
Misc      : op59237,sx1995,1000,,,1,1,water         Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Feb 16 15:51:26 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	Amount	Calc.	%Drift	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	40.000	40.000	0.0	85	0.00	5.05
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine		NA				
			Amount	Calc.	%Drift			
5	P	Benzaldehyde		NA				
			Amount	Calc.	%Drift			
6		Aniline		NA				
7	S	2-Fluorophenol		NA				
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol		NA				
16	P	bis(2-chloroisopropyl)eth		NA				
17	P	2-Methylphenol		NA				
18	P	Acetophenone		NA				
19	P	Hexachloroethane		NA				
20	P	N-Nitroso-di-n-propylamin		NA				
21	P	3&4-Methylphenol		NA				
22	I	Naphthalene-d8	40.000	40.000	0.0	87	0.00	6.16
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28		O,O,O-Triethylphosphoroth		NA				
29	P	bis(2-Chloroethoxy)methan		NA				
			Amount	Calc.	%Drift			
30		Benzoic Acid		NA				
			Amount	Calc.	%Drift			
31	P	2,4-Dichlorophenol		NA				
32		1,2,4-Trichlorobenzene		NA				
33		alpha-Terpineol		NA				

7.7.19

7

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044550.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

34	P	Naphthalene		----------NA----------				
35	P	4-Chloroaniline		----------NA----------				
36		2,6-Dichlorophenol		----------NA----------				
37	P	Hexachlorobutadiene		----------NA----------				
38	P	Caprolactam		----------NA----------				
39	P	4-Chloro-3-methylphenol		----------NA----------				
40	P	2-Methylnaphthalene		----------NA----------				
41		1-Methylnaphthalene		----------NA----------				
42	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
43	I	Acenaphthene-d10	40.000	40.000	0.0	86	0.00	7.71
44	P	Hexachlorocyclopentadiene		----------NA----------				
45	P	2,4,6-Trichlorophenol		----------NA----------				
46	P	2,4,5-Trichlorophenol		----------NA----------				
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl		----------NA----------				
49	P	2-Chloronaphthalene		----------NA----------				
50	P	2-Nitroaniline		----------NA----------				
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene		----------NA----------				
53	P	Dimethylphthalate		----------NA----------				
54		m-Dinitrobenzene		----------NA----------				
55	P	2,6-Dinitrotoluene		----------NA----------				
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene		----------NA----------				
58	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
60	P	Dibenzofuran		----------NA----------				
61	P	2,4-Dinitrotoluene		----------NA----------				
62	P	4-Nitrophenol		----------NA----------				
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
65	P	Fluorene		----------NA----------				
66	P	4-Chlorophenyl-phenylethe		----------NA----------				
67	P	Diethylphthalate		----------NA----------				
68		Thionazin		----------NA----------				
69	P	4-Nitroaniline		----------NA----------				
70	I	Phenanthrene-d10	40.000	40.000	0.0	85	0.00	9.03
		----------	Amount	Calc.	%Drift	----------		
71	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
72	P	n-Nitrosodiphenylamine		----------NA----------				
73		Diphenylamine		----------NA----------				
74		1,2-Diphenylhydrazine		----------NA----------				
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep		----------NA----------				
77		Phorate		----------NA----------				
78	P	4-Bromophenyl-phenylether		----------NA----------				
79	P	Hexachlorobenzene		----------NA----------				
80		Dimethoate		----------NA----------				
81		Simazine		----------NA----------				
82	P	Atrazine		----------NA----------				

Initial Calibration Verification

Job Number: FA31827 **Sample:** SX1995-ICV1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044550.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
83	P	Pentachlorophenol		NA				
			Amount	Calc.	%Drift			
84	P	Phenanthrene		NA				
85	P	Anthracene		NA				
86		Disulfoton		NA				
87	P	Carbazole		NA				
88		Methyl Parathion		NA				
			Amount	Calc.	%Drift			
89	P	Di-n-butylphthalate		NA				
			Amount	Calc.	%Drift			
90		Ethyl Parathion		NA				
91	P	Fluoranthene		NA				
92	I	Chrysene-d12	40.000	40.000	0.0	85	-0.02	11.79
			Amount	Calc.	%Drift			
93		Benzidine	25.000	56.587	-126.3#	137	0.00	10.26
			Amount	Calc.	%Drift			
94	P	Pyrene		NA				
95	S	Terphenyl-d14		NA				
96		Famphur		NA				
97	P	Butylbenzylphthalate		NA				
98	P	3,3'-Dichlorobenzidine		NA				
99	P	Benzo[a]anthracene		NA				
100	P	Chrysene		NA				
101	P	bis(2-Ethylhexyl)phthalat		NA				
102	I	Perylene-d12	40.000	40.000	0.0	83	-0.01	14.44
103	P	Di-n-octylphthalate		NA				
104	P	Benzo[b]fluoranthene		NA				
105	P	Benzo[k]fluoranthene		NA				
106	P	Benzo[a]pyrene		NA				
107	P	Indeno[1,2,3-cd]pyrene		NA				
108	P	Dibenz[a,h]anthracene		NA				
109	P	Benzo[g,h,i]perylene		NA				

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x044540.D 8270daOP.m Wed Feb 17 08:33:30 2016

7.7.19

7

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SX2009-CC1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044961.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx2009\x044961.D          Vial: 2
Acq On    :  7 Mar 2016  11:47 am                   Operator: marthav
Sample    : cc1995-25                               Inst    : MSBNA05
Misc      : op59441,sx2009,30.0,,,1,1,soil          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Feb 16 15:51:26 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	69	0.00	4.84
2		1,4-Dioxane	0.574	0.619	-7.8	74	0.00	2.05
3		N-nitrosodimethylamine	0.703	0.778	-10.7	74	0.00	2.39
4		Pyridine	1.452	1.539	-6.0	72	0.00	2.41
		----------	Amount	Calc.	%Drift		----------	
5	P	Benzaldehyde	25.000	33.558	-34.2#	79	0.00	4.47
		----------	AvgRF	CCRF	%Dev		----------	
6		Aniline	1.971	1.927	2.2	66	0.00	4.57
7	S	2-Fluorophenol	1.305	1.272	2.5	64	0.00	3.75
8	P	bis(2-Chloroethyl)ether	1.345	1.358	-1.0	68	0.00	4.63
9	S	Phenol-d5	1.671	1.445	13.5	58	0.00	4.59
10	P	Phenol	1.639	1.582	3.5	65	0.00	4.60
11	P	2-Chlorophenol	1.393	1.422	-2.1	70	0.00	4.68
12		1,3-Dichlorobenzene	1.568	1.563	0.3	68	0.00	4.79
13		1,4-Dichlorobenzene	1.592	1.584	0.5	67	0.00	4.86
14		1,2-Dichlorobenzene	1.492	1.520	-1.9	68	0.00	4.99
15		Benzyl alcohol	0.859	0.929	-8.1	72	0.00	4.99
16	P	bis(2-chloroisopropyl)eth	2.188	2.095	4.3	62	0.00	5.10
17	P	2-Methylphenol	1.212	1.254	-3.5	71	0.00	5.11
18	P	Acetophenone	1.897	1.844	2.8	66	0.00	5.20
19	P	Hexachloroethane	0.688	0.732	-6.4	72	0.00	5.28
20	P	N-Nitroso-di-n-propylamin	0.628	0.712	-13.4	75	0.00	5.21
21	P	3&4-Methylphenol	1.284	1.329	-3.5	69	0.00	5.24
22	I	Naphthalene-d8	1.000	1.000	0.0	60	0.00	5.95
23	S	Nitrobenzene-d5	0.491	0.529	-7.7	63	0.00	5.33
24	P	Nitrobenzene	0.439	0.489	-11.4	65	0.00	5.35
25	P	Isophorone	0.770	0.822	-6.8	63	0.00	5.56
26	P	2-Nitrophenol	0.202	0.245	-21.3#	72	0.00	5.62
27	P	2,4-Dimethylphenol	0.386	0.453	-17.4	69	0.00	5.69
28		O,O,O-Triethylphosphoroth	0.201	0.238	-18.4	72	0.00	5.74
29	P	bis(2-Chloroethoxy)methan	0.437	0.487	-11.4	66	0.00	5.76
		----------	Amount	Calc.	%Drift		----------	
30		Benzoic Acid	25.000	30.577	-22.3#	79	0.00	5.81
		----------	AvgRF	CCRF	%Dev		----------	
31	P	2,4-Dichlorophenol	0.333	0.391	-17.4	70	0.00	5.85
32		1,2,4-Trichlorobenzene	0.367	0.427	-16.3	71	0.00	5.90
33		alpha-Terpineol		----------NA----------				

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SX2009-CC1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044961.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

34	P	Naphthalene	1.032	1.110	-7.6	60	0.00	5.97
35	P	4-Chloroaniline	0.460	0.532	-15.7	69	0.00	6.04
36		2,6-Dichlorophenol	0.337	0.393	-16.6	71	0.00	6.04
37	P	Hexachlorobutadiene	0.252	0.295	-17.1	72	0.00	6.08
38	P	Caprolactam	0.114	0.152	-33.3#	80	0.00	6.36
39	P	4-Chloro-3-methylphenol	0.346	0.404	-16.8	69	0.00	6.49
40	P	2-Methylnaphthalene	0.713	0.775	-8.7	63	0.00	6.58
41		1-Methylnaphthalene	0.658	0.720	-9.4	64	0.00	6.67
42	P	1,2,4,5-Tetrachlorobenzen	0.418	0.466	-11.5	67	0.00	6.73
43	I	Acenaphthene-d10	1.000	1.000	0.0	64	0.00	7.50
44	P	Hexachlorocyclopentadiene	0.399	0.444	-11.3	73	0.00	6.72
45	P	2,4,6-Trichlorophenol	0.427	0.482	-12.9	73	0.00	6.85
46	P	2,4,5-Trichlorophenol	0.441	0.501	-13.6	75	0.00	6.89
47	S	2-Fluorobiphenyl	1.464	1.420	3.0	59	0.00	6.92
48	P	1,1'-Biphenyl	1.400	1.441	-2.9	63	0.00	7.00
49	P	2-Chloronaphthalene	1.145	1.170	-2.2	63	0.00	7.01
50	P	2-Nitroaniline	0.425	0.463	-8.9	68	0.00	7.12
51		p-Dinitrobenzene	0.263	0.313	-19.0	73	0.00	7.24
52	P	Acenaphthylene	1.706	1.716	-0.6	61	0.00	7.38
53	P	Dimethylphthalate	1.298	1.315	-1.3	62	0.00	7.29
54		m-Dinitrobenzene	0.224	0.263	-17.4	74	0.00	7.31
55	P	2,6-Dinitrotoluene	0.313	0.352	-12.5	72	0.00	7.34
56		o-Dinitrobenzene	0.304	0.362	-19.1	72	0.00	7.38
57	P	Acenaphthene	1.142	1.177	-3.1	64	0.00	7.53
58	P	3-Nitroaniline	0.326	0.353	-8.3	67	0.00	7.49
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol	25.000	27.163	-8.7	75	0.00	7.57
		----------	AvgRF	CCRF	%Dev	----------		
60	P	Dibenzofuran	1.571	1.600	-1.8	61	0.00	7.69
61	P	2,4-Dinitrotoluene	0.415	0.466	-12.3	71	0.00	7.69
62	P	4-Nitrophenol	0.197	0.260	-32.0#	76	0.00	7.69
63		2,3,5,6-Tetrachlorophenol	0.360	0.421	-16.9	74	0.00	7.77
64	P	2,3,4,6-Tetrachlorophenol	0.357	0.406	-13.7	74	0.00	7.80
65	P	Fluorene	1.305	1.355	-3.8	63	0.00	7.99
66	P	4-Chlorophenyl-phenylethe	0.716	0.758	-5.9	66	0.00	8.00
67	P	Diethylphthalate	1.327	1.357	-2.3	63	0.00	7.92
68		Thionazin	0.310	0.358	-15.5	70	0.00	7.99
69	P	4-Nitroaniline	0.299	0.340	-13.7	71	0.00	8.03
70	I	Phenanthrene-d10	1.000	1.000	0.0	61	0.00	8.82
		----------	Amount	Calc.	%Drift	----------		
71	P	4,6-Dinitro-2-methylpheno	25.000	30.207	-20.8#	73	0.00	8.05
		----------	AvgRF	CCRF	%Dev	----------		
72	P	n-Nitrosodiphenylamine	0.554	0.598	-7.9	63	0.00	8.11
73		Diphenylamine	0.665	0.718	-8.0	63	0.00	8.11
74		1,2-Diphenylhydrazine	0.756	0.815	-7.8	60	0.00	8.14
75	S	2,4,6-Tribromophenol	0.078	0.093	-19.2	74	0.00	8.21
76		Sulfotep	0.140	0.180	-28.6#	74	0.00	8.26
77		Phorate	0.430	0.487	-13.3	65	0.00	8.37
78	P	4-Bromophenyl-phenylether	0.218	0.260	-19.3	72	0.00	8.43
79	P	Hexachlorobenzene	0.194	0.233	-20.1#	76	0.00	8.47
80		Dimethoate	0.272	0.332	-22.1#	70	0.00	8.53
81		Simazine	0.132	0.127	3.8	58	0.00	8.57
82	P	Atrazine	0.240	0.271	-12.9	70	0.00	8.60

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SX2009-CC1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044961.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
83	P	Pentachlorophenol	25.000	28.136	-12.5	73	0.00	8.66
			AvgRF	CCRF	%Dev			
84	P	Phenanthrene	1.063	1.111	-4.5	59	0.00	8.84
85	P	Anthracene	1.083	1.162	-7.3	60	0.00	8.88
86		Disulfoton	0.450	0.513	-14.0	67	0.00	8.84
87	P	Carbazole	0.974	1.015	-4.2	61	0.00	9.04
88		Methyl Parathion	0.262	0.316	-20.6#	69	0.00	9.17
			Amount	Calc.	%Drift			
89	P	Di-n-butylphthalate	25.000	25.397	-1.6	59	0.00	9.37
			AvgRF	CCRF	%Dev			
90		Ethyl Parathion	0.167	0.212	-26.9#	73	0.00	9.52
91	P	Fluoranthene	1.176	1.237	-5.2	59	0.00	9.90
92	I	Chrysene-d12	1.000	1.000	0.0	63	0.00	11.47
			Amount	Calc.	%Drift			
93		Benzidine		----------NA----------				
			AvgRF	CCRF	%Dev			
94	P	Pyrene	1.175	1.140	3.0	58	0.00	10.09
95	S	Terphenyl-d14	0.783	0.750	4.2	60	0.00	10.26
96		Famphur	0.398	0.422	-6.0	63	0.00	10.72
97	P	Butylbenzylphthalate	0.530	0.573	-8.1	67	0.00	10.80
98	P	3,3'-Dichlorobenzidine	0.325	0.403	-24.0#	74	0.00	11.45
99	P	Benzo[a]anthracene	1.151	1.132	1.7	61	0.00	11.45
100	P	Chrysene	1.075	1.079	-0.4	61	0.00	11.50
101	P	bis(2-Ethylhexyl)phthalat	0.728	0.791	-8.7	66	0.00	11.58
102	I	Perylene-d12	1.000	1.000	0.0	68	0.00	13.95
103	P	Di-n-octylphthalate	1.521	1.513	0.5	67	0.00	12.69
104	P	Benzo[b]fluoranthene	1.190	1.152	3.2	65	0.00	13.20
105	P	Benzo[k]fluoranthene	1.261	1.170	7.2	63	0.00	13.26
106	P	Benzo[a]pyrene	1.189	1.160	2.4	66	0.00	13.82
107	P	Indeno[1,2,3-cd]pyrene	0.821	0.886	-7.9	70	0.00	16.21
108	P	Dibenz[a,h]anthracene	0.859	0.907	-5.6	69	0.00	16.29
109	P	Benzo[g,h,i]perylene	0.901	0.950	-5.4	69	0.00	16.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
x044540.D 8270daOP.m Tue Mar 08 15:19:33 2016

7.7.20

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Continuing Calibration Summary

Job Number: FA31827 **Sample:** SX2009-CC1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044962.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\sx2009\x044962.D          Vial: 3
Acq On    :  7 Mar 2016  12:25 pm                   Operator: marthav
Sample    : cc1995-25                               Inst    : MSBNA05
Misc      : op59441,sx2009,30.0,,,1,1,soil          Multiplr: 1.00
MS Integration Params: lscint.p

Method       : C:\msdchem\1\METHODS\8270daOP.m (RTE Integrator)
Title        : SW846 8270D OR EPA 625
Last Update  : Tue Feb 16 15:51:26 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	68	-0.03	4.84
2		1,4-Dioxane		NA				
3		N-nitrosodimethylamine		NA				
4		Pyridine		NA				
		----------	Amount	Calc.	%Drift	----------		
5	P	Benzaldehyde		NA				
		----------	AvgRF	CCRF	%Dev	----------		
6		Aniline		NA				
7	S	2-Fluorophenol		NA				
8	P	bis(2-Chloroethyl)ether		NA				
9	S	Phenol-d5		NA				
10	P	Phenol		NA				
11	P	2-Chlorophenol		NA				
12		1,3-Dichlorobenzene		NA				
13		1,4-Dichlorobenzene		NA				
14		1,2-Dichlorobenzene		NA				
15		Benzyl alcohol		NA				
16	P	bis(2-chloroisopropyl)eth		NA				
17	P	2-Methylphenol		NA				
18	P	Acetophenone		NA				
19	P	Hexachloroethane		NA				
20	P	N-Nitroso-di-n-propylamin		NA				
21	P	3&4-Methylphenol		NA				
22	I	Naphthalene-d8	1.000	1.000	0.0	60	-0.04	5.95
23	S	Nitrobenzene-d5		NA				
24	P	Nitrobenzene		NA				
25	P	Isophorone		NA				
26	P	2-Nitrophenol		NA				
27	P	2,4-Dimethylphenol		NA				
28		O,O,O-Triethylphosphoroth		NA				
29	P	bis(2-Chloroethoxy)methan		NA				
		----------	Amount	Calc.	%Drift	----------		
30		Benzoic Acid		NA				
		----------	AvgRF	CCRF	%Dev	----------		
31	P	2,4-Dichlorophenol		NA				
32		1,2,4-Trichlorobenzene		NA				
33		alpha-Terpineol		NA				

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SX2009-CC1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044962.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

34	P	Naphthalene		----------NA----------				
35	P	4-Chloroaniline		----------NA----------				
36		2,6-Dichlorophenol		----------NA----------				
37	P	Hexachlorobutadiene		----------NA----------				
38	P	Caprolactam		----------NA----------				
39	P	4-Chloro-3-methylphenol		----------NA----------				
40	P	2-Methylnaphthalene		----------NA----------				
41		1-Methylnaphthalene		----------NA----------				
42	P	1,2,4,5-Tetrachlorobenzen		----------NA----------				
43	I	Acenaphthene-d10	1.000	1.000	0.0	65	-0.05	7.50
44	P	Hexachlorocyclopentadiene		----------NA----------				
45	P	2,4,6-Trichlorophenol		----------NA----------				
46	P	2,4,5-Trichlorophenol		----------NA----------				
47	S	2-Fluorobiphenyl		----------NA----------				
48	P	1,1'-Biphenyl		----------NA----------				
49	P	2-Chloronaphthalene		----------NA----------				
50	P	2-Nitroaniline		----------NA----------				
51		p-Dinitrobenzene		----------NA----------				
52	P	Acenaphthylene		----------NA----------				
53	P	Dimethylphthalate		----------NA----------				
54		m-Dinitrobenzene		----------NA----------				
55	P	2,6-Dinitrotoluene		----------NA----------				
56		o-Dinitrobenzene		----------NA----------				
57	P	Acenaphthene		----------NA----------				
58	P	3-Nitroaniline		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59	P	2,4-Dinitrophenol		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
60	P	Dibenzofuran		----------NA----------				
61	P	2,4-Dinitrotoluene		----------NA----------				
62	P	4-Nitrophenol		----------NA----------				
63		2,3,5,6-Tetrachlorophenol		----------NA----------				
64	P	2,3,4,6-Tetrachlorophenol		----------NA----------				
65	P	Fluorene		----------NA----------				
66	P	4-Chlorophenyl-phenylethe		----------NA----------				
67	P	Diethylphthalate		----------NA----------				
68		Thionazin		----------NA----------				
69	P	4-Nitroaniline		----------NA----------				
70	I	Phenanthrene-d10	1.000	1.000	0.0	61	-0.06	8.82
		----------	Amount	Calc.	%Drift	----------		
71	P	4,6-Dinitro-2-methylpheno		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
72	P	n-Nitrosodiphenylamine		----------NA----------				
73		Diphenylamine		----------NA----------				
74		1,2-Diphenylhydrazine		----------NA----------				
75	S	2,4,6-Tribromophenol		----------NA----------				
76		Sulfotep		----------NA----------				
77		Phorate		----------NA----------				
78	P	4-Bromophenyl-phenylether		----------NA----------				
79	P	Hexachlorobenzene		----------NA----------				
80		Dimethoate		----------NA----------				
81		Simazine		----------NA----------				
82	P	Atrazine		----------NA----------				

Continuing Calibration Summary

Job Number: FA31827 **Sample:** SX2009-CC1995
Account: URSNCM AECOM, INC. **Lab FileID:** X044962.D
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

			Amount	Calc.	%Drift			
83	P	Pentachlorophenol		NA				
			AvgRF	CCRF	%Dev			
84	P	Phenanthrene		NA				
85	P	Anthracene		NA				
86		Disulfoton		NA				
87	P	Carbazole		NA				
88		Methyl Parathion		NA				
			Amount	Calc.	%Drift			
89	P	Di-n-butylphthalate		NA				
			AvgRF	CCRF	%Dev			
90		Ethyl Parathion		NA				
91	P	Fluoranthene		NA				
92	I	Chrysene-d12	1.000	1.000	0.0	66	-0.11	11.46
			Amount	Calc.	%Drift			
93		Benzidine	25.000	30.533	-22.1#	74	-0.07	10.03
			AvgRF	CCRF	%Dev			
94	P	Pyrene		NA				
95	S	Terphenyl-d14		NA				
96		Famphur		NA				
97	P	Butylbenzylphthalate		NA				
98	P	3,3'-Dichlorobenzidine		NA				
99	P	Benzo[a]anthracene		NA				
100	P	Chrysene		NA				
101	P	bis(2-Ethylhexyl)phthalat		NA				
102	I	Perylene-d12	1.000	1.000	0.0	72	-0.19	13.94
103	P	Di-n-octylphthalate		NA				
104	P	Benzo[b]fluoranthene		NA				
105	P	Benzo[k]fluoranthene		NA				
106	P	Benzo[a]pyrene		NA				
107	P	Indeno[1,2,3-cd]pyrene		NA				
108	P	Dibenz[a,h]anthracene		NA				
109	P	Benzo[g,h,i]perylene		NA				

(#) = Out of Range SPCC's out = 62 CCC's out = 0
x044540.D 8270daOP.m Tue Mar 08 13:08:27 2016

7.7.21

7

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: H50309W2.CSV Date Analyzed: 03/09/16 Methods: EPA 245.1
Analyst: JL Run ID: MA13020
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
11:10	MA13020-STD1	1		STD1
11:11	MA13020-STD2	1		STD2
11:13	MA13020-STD3	1		STD3
11:14	MA13020-STD4	1		STD4
11:16	MA13020-STD5	1		STD5
11:18	MA13020-STD6	1		STD6
11:20	MA13020-HSTD1	1		
11:22	MA13020-ICV1	1		
11:23	MA13020-ICB1	1		
11:25	MA13020-CRI1	1		
11:27	MA13020-CCV1	1		
11:28	MA13020-CCB1	1		
11:30	MP30081-MB1	1		
11:31	MP30081-B1	1		
11:33	FA31983-1	1		(sample used for QC only; not part of login FA31827)
11:34	MP30081-D1	1		
11:36	MP30081-SD1	5		
11:37	MP30081-S1	1		
11:38	MP30081-S2	1		
11:40	ZZZZZZ	1		
11:42	ZZZZZZ	1		
11:43	ZZZZZZ	1		
11:45	MA13020-CCV2	1		
11:46	MA13020-CCB2	1		
11:48	ZZZZZZ	1		
11:49	FA31827-1	1		
11:51	FA31827-2	1		
---------->	Last reportable sample/prep for job FA31827			
11:52	ZZZZZZ	1		
11:53	ZZZZZZ	1		
11:55	ZZZZZZ	1		
12:02	MA13020-CCV3	1		
12:03	MA13020-CCB3	1		
12:19	MA13020-CCV4	1		

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: H50309W2.CSV Date Analyzed: 03/09/16 Methods: EPA 245.1
Analyst: JL Run ID: MA13020
Parameters: Hg

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:20	MA13020-CCB4	1		
12:37	MA13020-CCV5	1		
12:38	MA13020-CCB5	1		
12:50	MA13020-CRI2	1		
12:51	MA13020-CCV6	1		
12:53	MA13020-CCB6	1		

----------> Last reportable CCB for job FA31827
Refer to raw data for calibration curve and standards.

8.1
8

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: H50309W2.CSV Date Analyzed: 03/09/16 Methods: EPA 245.1
QC Limits: result < RL Run ID: MA13020 Units: ug/l

Time:			11:23		11:28		11:46		12:03	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Mercury	0.50	.03	0.0019	<0.50	0.0069	<0.50	0.0080	<0.50	0.011	<0.50

(*) Outside of QC limits
(anr) Analyte not requested

8.1.1
8

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: H50309W2.CSV Date Analyzed: 03/09/16 Methods: EPA 245.1
QC Limits: result < RL Run ID: MA13020 Units: ug/l

Time:			12:20		12:38		12:53	
Sample ID:			CCB4		CCB5		CCB6	
Metal	RL	IDL	raw	final	raw	final	raw	final
Mercury	0.50	.03	0.0047	<0.50	0.0070	<0.50	0.0049	<0.50

(*) Outside of QC limits
(anr) Analyte not requested

8.1.1
8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: H50309W2.CSV Date Analyzed: 03/09/16 Methods: EPA 245.1
QC Limits: 90 to 110 % Recovery Run ID: MA13020 Units: ug/l

Time:		11:22			11:27			11:45	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	3.0	3.0	100.0	3.0	3.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

8.1.2
8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: H50309W2.CSV Date Analyzed: 03/09/16 Methods: EPA 245.1
QC Limits: 90 to 110 % Recovery Run ID: MA13020 Units: ug/l

Time:		12:02			12:19			12:37	
Sample ID:	CCV	CCV3		CCV	CCV4		CCV	CCV5	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Mercury	3.0	3.0	100.0	3.0	3.0	100.0	3.0	3.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

8.1.2
8

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: H50309W2.CSV Date Analyzed: 03/09/16 Methods: EPA 245.1
QC Limits: 90 to 110 % Recovery Run ID: MA13020 Units: ug/l

Time:		12:51	
Sample ID:	CCV	CCV6	
Metal	True	Results	% Rec
Mercury	3.0	3.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

8.1.2
8

HIGH STANDARD CHECK SUMMARY

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: H50309W2.CSV Date Analyzed: 03/09/16 Methods: EPA 245.1
QC Limits: 95 to 105 % Recovery Run ID: MA13020 Units: ug/l

Time:		11:20	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Mercury	6	5.9	98.3

(*) Outside of QC limits
(anr) Analyte not requested

8.1.3

8

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: H50309W2.CSV Date Analyzed: 03/09/16 Methods: EPA 245.1
QC Limits: 80 to 120 % Recovery Run ID: MA13020 Units: ug/l

Time:			11:25		12:50	
Sample ID:	CRI	CRIA	CRI1		CRI2	
Metal	True	True	Results	% Rec	Results	% Rec
Mercury	0.20		0.18	90.0	0.19	95.0

(*) Outside of QC limits
(anr) Analyte not requested

8.1.4

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

QC Batch ID: MP30081 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/09/16

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.50	.03	.03	-0.0013	<0.50

Associated samples MP30081: FA31827-1, FA31827-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.2.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

QC Batch ID: MP30081 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/09/16 03/09/16

Metal	FA31983-1 Original	DUP	RPD	QC Limits	FA31983-1 Original	MS	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.0	0.0	NC	0-10	0.0	3.0	3	100.0	70-130

Associated samples MP30081: FA31827-1, FA31827-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

8.2.2
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

QC Batch ID: MP30081 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/09/16

Metal	FA31983-1 Original	MSD	Spikelot HGFLWS1	% Rec	MSD RPD	QC Limit
Mercury	0.0	3.0	3	100.0	0.0	

Associated samples MP30081: FA31827-1, FA31827-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

8.2.2
8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

QC Batch ID: MP30081 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/09/16

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	3.1	3	103.3	85-115

Associated samples MP30081: FA31827-1, FA31827-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.2.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

QC Batch ID: MP30081 Methods: EPA 245.1
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 03/09/16

Metal	FA31983-1 Original	SDL 1:5	%DIF	QC Limits
Mercury	0.00	0.00	NC	0-10

Associated samples MP30081: FA31827-1, FA31827-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

8.2.4
8

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries
- Instrument Runlogs/QC

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP27520/GN70019	2.0	0.0	mg/l	50	48.2	96.4	90-110%
Nitrogen, Ammonia	GP27572/GN70096	0.10	0.0	mg/l	2.5	2.41	96.4	90-110%
Nitrogen, Nitrate	GP27520/GN70019	0.10	0.0	mg/l	2.5	2.46	98.4	90-110%
Nitrogen, Nitrite	GP27520/GN70019	0.10	0.0	mg/l	2.5	2.45	98.0	90-110%
Sulfate	GP27520/GN70019	2.0	0.0	mg/l	50	48.6	97.2	90-110%

Associated Samples:
Batch GP27520: FA31827-1, FA31827-2
Batch GP27572: FA31827-1, FA31827-2
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP27520/GN70019	FA31827-1	mg/l	3.5	100	102	102.0	90-110%
Nitrogen, Ammonia	GP27572/GN70096	FA31925-3	mg/l	7.5	2.5	9.6	84.0N	90-110%
Nitrogen, Nitrate	GP27520/GN70019	FA31827-1	mg/l	0.033	5	5.1	101.6	90-110%
Nitrogen, Nitrite	GP27520/GN70019	FA31827-1	mg/l	0.0	5	4.9	98.6	90-110%
Sulfate	GP27520/GN70019	FA31827-1	mg/l	5.0	100	107	107.0	90-110%

Associated Samples:
Batch GP27520: FA31827-1, FA31827-2
Batch GP27572: FA31827-1, FA31827-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP27520/GN70019	FA31827-1	mg/l	3.5	100	102	0.0	20%
Nitrogen, Ammonia	GP27572/GN70096	FA31925-3	mg/l	7.5	2.5	9.7	1.0	20%
Nitrogen, Nitrate	GP27520/GN70019	FA31827-1	mg/l	0.033	5	5.0	2.0	20%
Nitrogen, Nitrite	GP27520/GN70019	FA31827-1	mg/l	0.0	5	4.9	0.0	20%
Sulfate	GP27520/GN70019	FA31827-1	mg/l	5.0	100	106	0.9	20%

Associated Samples:
Batch GP27520: FA31827-1, FA31827-2
Batch GP27572: FA31827-1, FA31827-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: 216030201.TXT Date Analyzed: 03/02/16 Methods: EPA 300/SW846 9056A
Analyst: DM Run ID: GN70019
Parameters: Nitrogen, Nitrate,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:56	GN70019-CCV1	1		
16:13	GP27520-MB1	1		
16:30	GP27520-B1	1		
17:21	ZZZZZZ	10		
17:38	ZZZZZZ	5		
17:55	ZZZZZZ	5		
18:12	ZZZZZZ	1		
18:29	ZZZZZZ	1		
18:45	FA31818-20	1		(sample used for QC only; not part of login FA31827)
19:02	GN70019-CCV2	1		
19:19	GN70019-CCB1	1		
19:36	ZZZZZZ	5		
19:53	ZZZZZZ	10		
20:10	ZZZZZZ	1		
20:27	ZZZZZZ	10		
20:44	FA31827-1	1		
21:01	FA31827-2	1		
21:18	ZZZZZZ	1		
21:35	ZZZZZZ	1		
21:52	ZZZZZZ	1		
22:08	ZZZZZZ	1		
22:25	GN70019-CCV3	1		
22:42	GN70019-CCB2	1		
22:59	ZZZZZZ	1		
23:16	ZZZZZZ	1		
23:33	ZZZZZZ	1		
23:50	FA31674-7	1		(sample used for QC only; not part of login FA31827)
00:07	GP27520-S1	1		
00:24	GP27520-S2	1		
00:41	GP27520-S3	1		
00:58	GP27520-S4	1		
01:15	GN70019-CCV4	1		
01:32	GN70019-CCB3	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: 216030201.TXT Date Analyzed: 03/02/16 Methods: EPA 300/SW846 9056A
Run ID: GN70019 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN70019-CCV1	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN70019-CCV1	Sulfate	49.5	2.0	0.60	50	99.0	90-110
GN70019-CCV2	Nitrogen, Nitrate	2.4	0.10	0.050	2.5	96.0	90-110
GN70019-CCV2	Sulfate	47.4	2.0	0.60	50	94.8	90-110
GN70019-CCB1	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN70019-CCB1	Sulfate	0.60 U	2.0	0.60			
GN70019-CCV3	Nitrogen, Nitrate	2.4	0.10	0.050	2.5	96.0	90-110
GN70019-CCV3	Sulfate	48.0	2.0	0.60	50	96.0	90-110
GN70019-CCB2	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN70019-CCB2	Sulfate	0.60 U	2.0	0.60			
GN70019-CCV4	Nitrogen, Nitrate	2.6	0.10	0.050	2.5	104.0	90-110
GN70019-CCV4	Sulfate	50.5	2.0	0.60	50	101.0	90-110
GN70019-CCB3	Nitrogen, Nitrate	0.050 U	0.10	0.050			
GN70019-CCB3	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: B031016AMN1.CSV Date Analyzed: 03/10/16 Methods: EPA 350.1
Analyst: JK Run ID: GN70096
Parameters: Nitrogen, Ammonia

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:26	GN70096-ICV1	1		
17:27	GN70096-CCV1	1		
17:28	GN70096-CCB1	1		
17:29	GP27572-MB1	1		
17:30	GP27572-B1	1		
17:36	ZZZZZZ	1		
17:41	GN70096-CCV2	1		
17:42	GN70096-CCB2	1		
17:57	GN70096-CCV3	1		
17:58	GN70096-CCB3	1		
17:59	GP27572-S1	2		Spike recovery outside of acceptable QC criteria due to dilution.
18:00	GP27572-S2	2		Spike recovery outside of acceptable QC criteria due to dilution.
18:01	FA31925-3	2		(sample used for QC only; not part of login FA31827)
18:02	ZZZZZZ	20		
18:05	GN70096-CCV4	1		
18:06	GN70096-CCB4	1		
19:05	GN70096-CCV5	1		
19:06	GN70096-CCB5	1		
19:07	ZZZZZZ	1		
19:09	ZZZZZZ	1		
19:10	ZZZZZZ	1		
19:13	ZZZZZZ	1		
19:14	ZZZZZZ	1		
19:15	GP27572-S3	1		
19:16	GP27572-S4	1		
19:17	FA31925-4	1		(sample used for QC only; not part of login FA31827)
19:19	GN70096-CCV6	1		
19:20	GN70096-CCB6	1		
19:21	ZZZZZZ	1		
19:22	ZZZZZZ	1		
19:23	ZZZZZZ	1		
19:24	ZZZZZZ	1		
19:25	ZZZZZZ	1		

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: B031016AMN1.CSV Date Analyzed: 03/10/16 Methods: EPA 350.1
Analyst: JK Run ID: GN70096
Parameters: Nitrogen, Ammonia

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:26	ZZZZZZ	1		
19:28	FA31827-1	1		
19:29	FA31827-2	1		
19:30	ZZZZZZ	1		
19:31	ZZZZZZ	1		
19:32	GN70096-CCV7	1		
19:33	GN70096-CCB7	1		
19:34	ZZZZZZ	10		
19:35	ZZZZZZ	2		
19:38	GN70096-CCV8	1		
19:39	GN70096-CCB8	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FA31827
Account: URSNCM - AECOM, INC.
Project: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: B031016AMN1.CSV Date Analyzed: 03/10/16 Methods: EPA 350.1
Run ID: GN70096 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN70096-ICV1	Nitrogen, Ammonia	2.5	0.10	0.030	2.5	100.0	90-110
GN70096-CCV1	Nitrogen, Ammonia	2.5	0.10	0.030	2.5	100.0	90-110
GN70096-CCB1	Nitrogen, Ammonia	0.030 U	0.10	0.030			
GN70096-CCV2	Nitrogen, Ammonia	2.5	0.10	0.030	2.5	100.0	90-110
GN70096-CCB2	Nitrogen, Ammonia	0.030 U	0.10	0.030			
GN70096-CCV3	Nitrogen, Ammonia	2.5	0.10	0.030	2.5	100.0	90-110
GN70096-CCB3	Nitrogen, Ammonia	0.030 U	0.10	0.030			
GN70096-CCV4	Nitrogen, Ammonia	2.5	0.10	0.030	2.5	100.0	90-110
GN70096-CCB4	Nitrogen, Ammonia	0.030 U	0.10	0.030			
GN70096-CCV5	Nitrogen, Ammonia	2.5	0.10	0.030	2.5	100.0	90-110
GN70096-CCB5	Nitrogen, Ammonia	0.030 U	0.10	0.030			
GN70096-CCV6	Nitrogen, Ammonia	2.5	0.10	0.030	2.5	100.0	90-110
GN70096-CCB6	Nitrogen, Ammonia	0.030 U	0.10	0.030			
GN70096-CCV7	Nitrogen, Ammonia	2.5	0.10	0.030	2.5	100.0	90-110
GN70096-CCB7	Nitrogen, Ammonia	-0.034	0.10	0.030			
GN70096-CCV8	Nitrogen, Ammonia	2.5	0.10	0.030	2.5	100.0	90-110
GN70096-CCB8	Nitrogen, Ammonia	0.030 U	0.10	0.030			

(!) Outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody
- Analyst Legend

SGS ACCUTEST

CHAIN OF CUSTODY

4405 Vineland Rd, Suite C-15, Orlando, FL 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.sgs.com

FED-EX Tracking # 6623 7770 1688
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest Job FA31827

Client / Reporting Information

Company Name: SGS Accutest
Street Address: 4405 Vineland Rd, Suite C-15
City: Orlando State: FL Zip: 32811
Project Contact: heatherw E-mail: heatherw@accutest.com
Phone #: 407-425-6700 Fax #:
Sampler(s) Name(s): JAAB Phone:

Project Information

Project Name: Pine Level Dump; Rains Crossroads Rd, Selma, NC
Street
City State
Project #
Client Purchase Order #
Project Manager

Billing Information (if different from Report to)

Company Name
Street Address
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet)

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	XMETHSLMS, FEMS, 200.8
1	WELL-182D PINE		3/1/16	1:50:00 PM	JAAB	AQ	1			1						X
2	DUP-2		3/1/16	2:00:00 PM	JAAB	AQ	1			1						X

Number of preserved Bottles

INITIAL ASESSMENT 3/5/16
LABEL VERIFICATION JN

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinses Blank
TB-Trip Blank

LAB USE ONLY
FL

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

- [ ] 10 Day (business)
- [ ] 5-7 Day
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [x] other 14

Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1, Results Only)
- [ ] Commercial "B" (Level 2, Results + QC summary)
- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] DOD FULT1 (Level 4)
- [x] Other REDT1
- [ ] EDD Format

Comments / Special Instructions

ALNJ

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	3/4/16 17:00	1	2	3/5/16 09:45	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # Green Accutest	[x] Intact [ ] Not intact	Preserved where applicable [x]

On Ice [x] Cooler Temp. 3.2°C

10.1 10

FA31827: Chain of Custody
Page 1 of 2
Accutest New Jersey

SGS Accutest Sample Receipt Summary

Job Number: FA31827 **Client:** _____ **Project:** _____

Date / Time Received: 3/5/2016 9:41:00 AM **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Raw Measured) °C: Cooler 1: (3.2);

Cooler Temps (Corrected) °C: Cooler 1: (3.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

10.1

10

FA31827: Chain of Custody

Page 2 of 2

Analyst Legend

Job Number: FA31827
Account: ALSE Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

Initials	Full Name	Analysis Type
JO	Jaclyn O'Connor	Metals Analysis

Metals Analysis

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38903
Parameters: Sb,As,Be,Cd,Cr,Cu,Fe,Pb,Mn,Ni,Se,Ag,Tl,Zn

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:27	MA38903-STD1	1		STDA
09:31	MA38903-STD2	1		STDA
09:36	MA38903-STD3	1		STDA
09:40	MA38903-STD4	1		STDB
09:45	MA38903-STD5	1		STDC
09:49	MA38903-STD6	1		STDD
09:53	MA38903-STD7	1		STDE
09:58	MA38903-STD8	1		STDF
10:02	MA38903-STD9	1		STDG
10:07	MA38903-STD10	1		STDH
10:11	MA38903-STD11	1		STDI
10:16	MA38903-STD12	1		STDJ
10:31	ZZZZZZ	1		
10:36	MA38903-ICVA1	1		
10:40	MA38903-ICV1	1		Al
10:44	MA38903-ICB1	1		
10:49	MA38903-CRI1	1		
10:54	MA38903-CCVA1	1		Sb out
10:58	MA38903-CCB1	1		
11:12	MP92393-MB2	1		
11:16	ZZZZZZ	1		
11:21	MP92393-B2	2		Ag
11:25	ZZZZZZ	1		
11:30	MP92393-S1	2		Ag
11:34	ZZZZZZ	1		
11:38	MP92393-S2	2		Ag
11:43	ZZZZZZ	1		
11:47	FA31827-1	1		CCV out for Sb
11:52	MA38903-CCVA2	1		Sb out
11:56	MA38903-CCB2	1		
12:01	ZZZZZZ	1		
12:05	ZZZZZZ	1		
12:12	ZZZZZZ	1		

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38903
Parameters: Sb,As,Be,Cd,Cr,Cu,Fe,Pb,Mn,Ni,Se,Ag,Tl,Zn

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	12:17	ZZZZZZ	1		
	12:22	MA38903-CCVA3	1		
	12:27	MA38903-CCB3	1		
	12:31	MP92393-MB2	1		Sb
	12:35	MP92393-B2	1		
	12:40	MP92393-S1	1		
	12:44	MP92393-S2	1		
	12:49	FA31827-1	1		Sb
	12:53	FA31827-2	1		CCV out for Ag
---------->	Last reportable sample/prep for job FA31827				
	12:58	ZZZZZZ	1		
	13:02	ZZZZZZ	1		
	13:06	ZZZZZZ	1		
	13:11	ZZZZZZ	1		
	13:16	MA38903-CCVA4	1		Ag out
	13:20	MA38903-CCB4	1		
---------->	Last reportable CCB for job FA31827				

Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38903
Parameters: Sb,As,Be,Cd,Cr,Cu,Fe,Pb,Mn,Ni,Se,Ag,Tl,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
09:27	MA38903-STD1	100	100	100	100	100	100	100	100
09:31	MA38903-STD2	100	100	100	100	100	100	100	100
09:36	MA38903-STD3	100	100	100	100	100	100	100	100
09:40	MA38903-STD4	100.771	100.077	99.832	101.369	99.944	100.055	100.582	99.166
09:45	MA38903-STD5	100.66	99.714	98.877	99.193	100.418	99.603	100.061	100.001
09:49	MA38903-STD6	100.746	99.699	100.061	98.927	100.595	100.932	100.259	100.503
09:53	MA38903-STD7	100.408	99.16	99.107	99.755	100.172	99.672	100.063	99.278
09:58	MA38903-STD8	99.014	98.516	98.036	99.167	99.96	98.757	99.319	98.502
10:02	MA38903-STD9	100.05	98.69	99.187	99.253	98.523	99.02	100.06	98.267
10:07	MA38903-STD10	100.034	99.728	99.407	99.587	98.835	99.722	98.439	98.789
10:11	MA38903-STD11	97.854	98.432	98.896	99.172	96.736	97.828	97.708	96.068
10:16	MA38903-STD12	96.673	98.699	96.773	97.985	97.979	96.372	97.629	95.201
10:31	ZZZZZZ	No results reported for the elements associated with this internal standard.							
10:36	MA38903-ICVA1	97.858	99.504	100.019	99.995	99.272	99.902	99.466	96.984
10:40	MA38903-ICV1	98.386	97.76	97.854	97.874	97.923	98.046	97.421	98.209
10:44	MA38903-ICB1	99.531	99.131	98.41	98.505	98.805	98.627	97.755	98.46
10:49	MA38903-CRI1	98.129	99.544	98.762	99.156	99.145	99.173	99.139	99.36
10:54	MA38903-CCVA1	97.134	100.004	100.215	98.972	98.817	99.99	97.729	96.957
10:58	MA38903-CCB1	98.083	98.055	98.25	98.533	98.149	98.493	99.37	98.399
11:12	MP92393-MB2	99.705	101.13	101.109	100.442	102.534	102.106	101.401	101.637
11:16	ZZZZZZ	No results reported for the elements associated with this internal standard.							
11:21	MP92393-B2	97.785	100.114	99.615	99.601	100.519	100.91	99.423	99.465
11:25	ZZZZZZ	No results reported for the elements associated with this internal standard.							
11:30	MP92393-S1	97.447	102.563	100.927	100.537	102.508	101.267	99.104	98.564
11:34	ZZZZZZ	No results reported for the elements associated with this internal standard.							
11:38	MP92393-S2	98.656	101.82	99.985	100.09	102.179	100.483	100.868	97.792
11:43	ZZZZZZ	No results reported for the elements associated with this internal standard.							
11:47	FA31827-1	96.902	102.16	99.93	100.059	100.002	101.129	100.144	95.775
11:52	MA38903-CCVA2	100.129	101.793	101.653	100.79	101.192	100.485	100.31	99.057
11:56	MA38903-CCB2	101.174	103.151	103.509	102.242	103.154	104.272	101.661	103.564
12:01	ZZZZZZ	No results reported for the elements associated with this internal standard.							
12:05	ZZZZZZ	No results reported for the elements associated with this internal standard.							
12:12	ZZZZZZ	No results reported for the elements associated with this internal standard.							

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38903
Parameters: Sb,As,Be,Cd,Cr,Cu,Fe,Pb,Mn,Ni,Se,Ag,Tl,Zn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
12:17	ZZZZZZ	No results reported for the elements associated with this internal standard.							
12:22	MA38903-CCVA3	99.418	102.304	102.274	100.324	101.928	102.41	99.346	100.829
12:27	MA38903-CCB3	98.277	100.085	100.082	100.973	101.285	102.527	101.51	101.508
12:31	MP92393-MB2	99.292	100.15	99.318	100.765	101.92	101.495	101.33	101.045
12:35	MP92393-B2	95.634	96.124	98.656	99.022	99.323	101.251	100.875	96.937
12:40	MP92393-S1	95.339	102.477	100.086	102.011	102.448	103.17	102.679	96.9
12:44	MP92393-S2	96.117	102.988	100.321	101.588	101.969	103.055	102.578	97.731
12:49	FA31827-1	97.822	104.676	102.355	102.864	102.585	102.954	102.735	97.799
12:53	FA31827-2	98.36	105.592	102.04	103.188	105.168	104.503	103.394	100.262
12:58	ZZZZZZ	96.351	102.733	99.58	100.146	100.911	100.275	99.952	96.139
13:02	ZZZZZZ	98.66	102.895	101.3	101.647	102.308	101.861	101.276	97.26
13:06	ZZZZZZ	96.995	102.453	103.935	104.933	102.523	105.996	104.69	97.916
13:11	ZZZZZZ	No results reported for the elements associated with this internal standard.							
13:16	MA38903-CCVA4	101.449	105.394	103.282	101.724	103.677	105.464	103.078	103.485
13:20	MA38903-CCB4	100.394	102.735	103.409	103.885	102.861	104.58	104.828	103.739

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#1	Lithium	60-125 %	60-125 %
Istd#2	Scandium (45-1)	60-125 %	60-125 %
Istd#3	Scandium (45-2)	60-125 %	60-125 %
Istd#4	Scandium (45-3)	60-125 %	60-125 %
Istd#5	Germanium (74-1)	60-125 %	60-125 %
Istd#6	Germanium (74-2)	60-125 %	60-125 %
Istd#7	Germanium (74-3)	60-125 %	60-125 %
Istd#8	Rhodium (103-1)	60-125 %	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38903
Parameters: Sb,As,Be,Cd,Cr,Cu,Fe,Pb,Mn,Ni,Se,Ag,Tl,Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
09:27	MA38903-STD1	100	100	100	100	100	100	100	100
09:31	MA38903-STD2	100	100	100	100	100	100	100	100
09:36	MA38903-STD3	100	100	100	100	100	100	100	100
09:40	MA38903-STD4	99.64	99.709	99.102	99.267	99.059	100.821	100.236	99.23
09:45	MA38903-STD5	98.685	98.235	99.307	98.586	99.024	99.991	99.159	99.416
09:49	MA38903-STD6	99.377	99.092	99.226	99.542	100.654	100.892	99.231	101.023
09:53	MA38903-STD7	99.208	98.943	98.408	98.758	100.238	100.868	99.639	100.677
09:58	MA38903-STD8	98.668	98.152	97.962	99.291	98.702	100.256	99.583	99.755
10:02	MA38903-STD9	98.408	97.797	98.587	99.442	98.988	100.934	98.866	100.001
10:07	MA38903-STD10	98.029	96.919	98.556	100.425	99.94	101.277	99.582	100.579
10:11	MA38903-STD11	96.42	96.013	97.076	98.485	98.88	100.899	99.102	100.16
10:16	MA38903-STD12	94.468	93.818	95.566	96.307	97.858	99.714	97.597	98.309
10:31	ZZZZZZ	No results reported for the elements associated with this internal standard.							
10:36	MA38903-ICVA1	97.231	96.19	97.882	99.427	99.357	101.422	98.956	100.203
10:40	MA38903-ICV1	98.153	98.164	97.285	98.753	97.995	99.979	98.016	97.806
10:44	MA38903-ICB1	97.768	96.893	98.75	99.735	99.013	99.604	97.299	99.61
10:49	MA38903-CRI1	98.316	98.009	99.376	99.355	98.054	100.019	98.439	99.324
10:54	MA38903-CCVA1	97.138	95.815	98.518	98.658	98.913	100.737	98.401	99.431
10:58	MA38903-CCB1	98.288	98.283	97.675	98.61	98.477	99.951	98.744	99.201
11:12	MP92393-MB2	101.131	99.256	99.719	101.671	99.998	102.78	99.541	101.398
11:16	ZZZZZZ	No results reported for the elements associated with this internal standard.							
11:21	MP92393-B2	98.716	97.686	99.075	100.388	99.707	101.304	99.107	100.276
11:25	ZZZZZZ	No results reported for the elements associated with this internal standard.							
11:30	MP92393-S1	97.191	96.278	99.207	99.115	99.45	100.229	97.568	100.25
11:34	ZZZZZZ	No results reported for the elements associated with this internal standard.							
11:38	MP92393-S2	97.412	96.161	99.653	99.763	100.493	101.528	98.131	100.883
11:43	ZZZZZZ	No results reported for the elements associated with this internal standard.							
11:47	FA31827-1	95.623	94.663	97.514	99.426	98.604	100.704	97.848	99.576
11:52	MA38903-CCVA2	98.627	96.797	99.666	100.884	100.577	103.028	98.8	102.501
11:56	MA38903-CCB2	102.814	100.952	102.541	103.664	102.04	103.65	100.271	102.738
12:01	ZZZZZZ	No results reported for the elements associated with this internal standard.							
12:05	ZZZZZZ	No results reported for the elements associated with this internal standard.							
12:12	ZZZZZZ	No results reported for the elements associated with this internal standard.							

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38903
Parameters: Sb,As,Be,Cd,Cr,Cu,Fe,Pb,Mn,Ni,Se,Ag,Tl,Zn

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
12:17	ZZZZZZ	No results reported for the elements associated with this internal standard.							
12:22	MA38903-CCVA3	100.705	98	100.769	101.304	103.268	105.652	102.355	103.684
12:27	MA38903-CCB3	102.33	101.425	100.842	100.829	101.837	104.193	102.627	103.039
12:31	MP92393-MB2	101.436	100.664	100.196	100.215	101.165	103.239	101.93	101.657
12:35	MP92393-B2	101.034	98.238	97.058	99.997	98.483	104.359	102.487	100.384
12:40	MP92393-S1	98.59	96.969	99.466	100.24	102.526	104.291	102.903	103.075
12:44	MP92393-S2	97.852	96.814	99.525	99.609	101.773	103.792	101.766	103.024
12:49	FA31827-1	99.441	97.866	100.838	100.682	102.948	104.639	102.581	103.867
12:53	FA31827-2	99.79	98.746	102.478	100.257	103.842	104.194	103.556	104.889
12:58	ZZZZZZ	96.261	94.633	98.628	97.781	100.682	102.256	100.055	102.317
13:02	ZZZZZZ	97.833	96.146	99.653	99.423	103.03	104.915	101.957	103.897
13:06	ZZZZZZ	100.589	100.215	100.356	102.941	103.013	107.6	106.449	103.562
13:11	ZZZZZZ	No results reported for the elements associated with this internal standard.							
13:16	MA38903-CCVA4	103.616	99.894	103.573	103.615	106.588	108.235	103.188	106.474
13:20	MA38903-CCB4	106.107	103.618	102.864	104.344	103.936	106.729	105.201	104.901

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#9	Rhodium (103-2)	60-125 %	60-125 %
Istd#10	Rhodium (103-3)	60-125 %	60-125 %
Istd#11	Indium (115-1)	60-125 %	60-125 %
Istd#12	Indium (115-2)	60-125 %	60-125 %
Istd#13	Terbium (159-1)	60-125 %	60-125 %
Istd#14	Terbium (159-2)	60-125 %	60-125 %
Istd#15	Terbium (159-3)	60-125 %	60-125 %
Istd#16	Holmium (165-1)	60-125 %	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38903
Parameters: Sb,As,Be,Cd,Cr,Cu,Fe,Pb,Mn,Ni,Se,Ag,Tl,Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19
09:27	MA38903-STD1	100	100	100
09:31	MA38903-STD2	100	100	100
09:36	MA38903-STD3	100	100	100
09:40	MA38903-STD4	100.822	99.875	99.892
09:45	MA38903-STD5	99.825	101.257	99.278
09:49	MA38903-STD6	101.048	101.98	101.101
09:53	MA38903-STD7	100.585	101.101	101.637
09:58	MA38903-STD8	99.815	100.77	100.857
10:02	MA38903-STD9	100.836	99.65	99.465
10:07	MA38903-STD10	101.304	99.633	100.001
10:11	MA38903-STD11	101.445	97.485	98.899
10:16	MA38903-STD12	99.786	96.374	96.218
10:31	ZZZZZZ	No results reported for the elements associated with this internal standard.		
10:36	MA38903-ICVA1	100.919	97.291	99.156
10:40	MA38903-ICV1	99.77	99.264	99.608
10:44	MA38903-ICB1	99.883	99.558	99.082
10:49	MA38903-CRI1	99.743	99.565	99.934
10:54	MA38903-CCVA1	100.905	97.276	98.091
10:58	MA38903-CCB1	99.735	99.574	99.665
11:12	MP92393-MB2	102.155	103.511	104.57
11:16	ZZZZZZ	No results reported for the elements associated with this internal standard.		
11:21	MP92393-B2	101.084	99.527	101.267
11:25	ZZZZZZ	No results reported for the elements associated with this internal standard.		
11:30	MP92393-S1	99.6	99.569	99.443
11:34	ZZZZZZ	No results reported for the elements associated with this internal standard.		
11:38	MP92393-S2	101.698	100.278	101.194
11:43	ZZZZZZ	No results reported for the elements associated with this internal standard.		
11:47	FA31827-1	100.272	98.038	98.899
11:52	MA38903-CCVA2	103.294	99.415	100.109
11:56	MA38903-CCB2	103.271	101.909	102.717
12:01	ZZZZZZ	No results reported for the elements associated with this internal standard.		
12:05	ZZZZZZ	No results reported for the elements associated with this internal standard.		
12:12	ZZZZZZ	No results reported for the elements associated with this internal standard.		

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38903
Parameters: Sb,As,Be,Cd,Cr,Cu,Fe,Pb,Mn,Ni,Se,Ag,Tl,Zn

Time	Sample Description	Istd#17	Istd#18	Istd#19
12:17	ZZZZZZ	No results reported for the elements associated with this internal standard.		
12:22	MA38903-CCVA3	105.345	102.349	103.244
12:27	MA38903-CCB3	104.492	102.941	103.261
12:31	MP92393-MB2	103.137	103.888	104.956
12:35	MP92393-B2	104.311	100.23	103.852
12:40	MP92393-S1	104.218	101.631	103.208
12:44	MP92393-S2	104.269	100.983	100.939
12:49	FA31827-1	104.122	102.472	101.971
12:53	FA31827-2	104.608	102.869	102.21
12:58	ZZZZZZ	102.357	99.709	99.81
13:02	ZZZZZZ	105.37	101.422	101.927
13:06	ZZZZZZ	107.522	99.475	102.546
13:11	ZZZZZZ	No results reported for the elements associated with this internal standard.		
13:16	MA38903-CCVA4	108.12	103.839	104.537
13:20	MA38903-CCB4	106.172	104.453	105.888

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#17	Holmium (165-2)	60-125 %	60-125 %
Istd#18	Bismuth (209-1)	60-125 %	60-125 %
Istd#19	Bismuth (209-2)	60-125 %	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
QC Limits: result < RL Run ID: MA38903 Units: ug/l

Time:			10:44		10:58		11:56		12:27	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	25	.34								
Antimony	2.0	.12	-0.061	<2.0	0.040	<2.0	0.052	<2.0	1.3	<2.0<
Arsenic	1.0	.025	0.00083	<1.5	0.018	<1.5	0.026	<1.0	0.026	<1.0
Barium	1.0	.011								
Beryllium	0.50	.004	0.0031	<0.50	0.0067	<0.50	0.015	<0.50	0.017	<0.50
Boron	25	3.2								
Cadmium	0.50	.011	0.0086	<3.0	0.021	<3.0	0.016	<0.50	0.0095	<0.50
Calcium	250	2.7								
Chromium	4.0	.016	0.0036	<4.0	-0.00066	<4.0	0.00016	<4.0	0.0089	<4.0
Cobalt	0.50	.003								
Copper	4.0	.1	-0.029	<5.0	-0.0049	<5.0	-0.0075	<4.0	-0.0087	<4.0
Iron	25	.51	-0.032	<25	0.53	<25	0.74	<50	0.80	<50
Lead	0.50	.009	0.0076	<1.5	0.020	<1.5	0.030	<0.50	0.038	<0.50
Magnesium	250	.39								
Manganese	1.0	.02	0.0086	<2.0	0.024	<2.0	0.017	<1.0	0.019	<1.0
Molybdenum	1.0	.02								
Nickel	4.0	.025	0.000095	<4.0	0.0044	<4.0	-0.0071	<4.0	0.012	<4.0
Potassium	250	4.9								
Selenium	1.0	.031	-0.037	<1.0	-0.0085	<1.0	0.014	<1.0	-0.026	<1.0
Silver	1.0	.019	0.0048	<1.0	0.014	<1.0	0.023	<2.0	0.90	<2.0<
Sodium	250	8.7								
Strontium	5.0	.009								
Thallium	0.50	.016	0.015	<1.0	0.062	<1.0	0.069	<0.50<	0.045	<0.50
Tin	5.0	.019								
Titanium	1.0	.047								
Vanadium	1.5	.045								
Zinc	10	.11	-0.15	<10	-0.17	<10	-0.18	<10	-0.16	<10

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
QC Limits: result < RL Run ID: MA38903 Units: ug/l

Time:			13:20	
Sample ID:			CCB4	
Metal	RL	IDL	raw	final
Aluminum	25	.34		
Antimony	2.0	.12	1.1	<2.0<
Arsenic	1.0	.025	0.030	<1.0
Barium	1.0	.011		
Beryllium	0.50	.004	0.016	<0.50
Boron	25	3.2		
Cadmium	0.50	.011	0.029	<0.50
Calcium	250	2.7		
Chromium	4.0	.016	0.012	<4.0
Cobalt	0.50	.003		
Copper	4.0	.1	-0.011	<4.0
Iron	25	.51	0.77	<50
Lead	0.50	.009	0.045	<0.50
Magnesium	250	.39		
Manganese	1.0	.02	0.025	<1.0
Molybdenum	1.0	.02		
Nickel	4.0	.025	0.013	<4.0
Potassium	250	4.9		
Selenium	1.0	.031	-0.032	<1.0
Silver	1.0	.019	0.60	<2.0<
Sodium	250	8.7		
Strontium	5.0	.009		
Thallium	0.50	.016	0.039	<0.50
Tin	5.0	.019		
Titanium	1.0	.047		
Vanadium	1.5	.045		
Zinc	10	.11	-0.11	<10

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
QC Limits: 90 to 110 % Recovery Run ID: MA38903 Units: ug/l

Time:		10:36			10:40			10:54	
Sample ID:	ICVA	ICVA1		ICV	ICV1		CCVA	CCVA1	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	60	63.7	106.2				50	57.7	115.4*(a
Arsenic	60	56.8	94.7				50	51.7	103.4
Barium									
Beryllium	60	57.7	96.2				50	54.3	108.6
Boron									
Cadmium	60	55.2	92.0				50	51.5	103.0
Calcium									
Chromium	60	57.0	95.0				50	52.0	104.0
Cobalt									
Copper	60	55.8	93.0				50	51.8	103.6
Iron	5500	5500	100.0				5000	5150	103.0
Lead	60	57.8	96.3				50	53.4	106.8
Magnesium									
Manganese	60	56.5	94.2				50	51.6	103.2
Molybdenum									
Nickel	60	56.2	93.7				50	51.3	102.6
Potassium									
Selenium	60	55.1	91.8				50	51.7	103.4
Silver	60	62.4	104.0				50	47.3	94.6
Sodium									
Strontium									
Thallium	60	60.1	100.2				50	53.5	107.0
Tin									
Titanium									
Vanadium									
Zinc	60	55.1	91.8				50	51.2	102.4

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element in the area bracketed by this QC.

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
QC Limits: 90 to 110 % Recovery Run ID: MA38903 Units: ug/l

Time:		11:52			12:22			13:16	
Sample ID:	CCVA	CCVA2		CCVA	CCVA3		CCVA	CCVA4	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony	50	57.8	115.6*(a	50	50.0	100.0	50	50.3	100.6
Arsenic	50	51.8	103.6	50	49.6	99.2	50	51.5	103.0
Barium									
Beryllium	50	54.4	108.8	50	51.6	103.2	50	52.8	105.6
Boron									
Cadmium	50	52.2	104.4	50	49.7	99.4	50	51.1	102.2
Calcium									
Chromium	50	52.6	105.2	50	50.4	100.8	50	51.1	102.2
Cobalt									
Copper	50	52.1	104.2	50	50.0	100.0	50	50.7	101.4
Iron	5000	5240	104.8	5000	5000	100.0	5000	5140	102.8
Lead	50	54.0	108.0	50	51.1	102.2	50	52.3	104.6
Magnesium									
Manganese	50	52.7	105.4	50	49.9	99.8	50	50.8	101.6
Molybdenum									
Nickel	50	51.9	103.8	50	49.4	98.8	50	50.5	101.0
Potassium									
Selenium	50	51.1	102.2	50	50.0	100.0	50	49.4	98.8
Silver	50	48.3	96.6	50	53.7	107.4	50	60.6	121.2*(a
Sodium									
Strontium									
Thallium	50	54.0	108.0	50	50.9	101.8	50	52.5	105.0
Tin									
Titanium									
Vanadium									
Zinc	50	51.3	102.6	50	50.7	101.4	50	51.6	103.2

(*) Outside of QC limits
(anr) Analyte not requested
(a) No samples reported for this element in the area bracketed by this QC.

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031116M2.CSV Date Analyzed: 03/11/16 Methods: EPA 200.8, SW846 6020A
QC Limits: 70 to 130 % Recovery Run ID: MA38903 Units: ug/l

Time:			10:49	
Sample ID:	CRI	CRIA	CRI1	
Metal	True	True	Results	% Rec
Aluminum	25	25		
Antimony	2.0	0.25	2.3	115.0
Arsenic	0.50	0.50	0.47	94.0
Barium	1.0	0.50		
Beryllium	0.50	0.25	0.49	98.0
Boron	25	2.5		
Cadmium	0.50	0.25	0.49	98.0
Calcium	250	125		
Chromium	1.0	2.0	0.98	98.0
Cobalt	0.50	0.25		
Copper	2.0	2.0	2.1	105.0
Iron	25	25	25.3	101.2
Lead	0.50	0.25	0.48	96.0
Magnesium	250	125		
Manganese	0.50	0.25	0.51	102.0
Molybdenum	1.0	0.50		
Nickel	1.0	2.0	0.97	97.0
Potassium	250	125		
Selenium	0.50	0.50	0.48	96.0
Silver	0.50	1.0	0.54	108.0
Sodium	250	125		
Strontium	5.0	0.50		
Thallium	0.50	0.25	0.48	96.0
Tin	5.0	0.50		
Titanium	1.0	0.50		
Vanadium	1.0	2.0		
Zinc	5.0	2.0	5.0	100.0

(*) Outside of QC limits
(anr) Analyte not requested

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
08:59	MA38907-STD1	1		STDA
09:03	MA38907-STD2	1		STDA
09:08	MA38907-STD3	1		STDA
09:12	MA38907-STD4	1		STDA
09:17	MA38907-STD5	1		STDB
09:21	MA38907-STD6	1		STDC
09:26	MA38907-STD7	1		STDD
09:30	MA38907-STD8	1		STDE
09:34	MA38907-STD9	1		STDF
09:39	MA38907-STD10	1		STDG
09:43	MA38907-STD11	1		STDH
09:48	MA38907-STD12	1		STDI
09:52	MA38907-STD13	1		STDJ
10:03	ZZZZZZ	1		
10:07	MA38907-ICVA1	1		
10:12	MA38907-ICV1	1		60ppb Al.
10:16	MA38907-ICB1	1		
10:20	MA38907-CRI1	1		
10:25	MA38907-ICSA1	1		
10:30	MA38907-ICSAB1	1		
10:34	ZZZZZZ	1		
10:39	MA38907-CCVA1	1		
10:43	MA38907-CCB1	1		
10:48	MP92464-MB1	2		
10:52	MP92464-B1	10		
10:56	MP92464-S1	10		
11:01	MP92464-S2	10		
11:05	ZZZZZZ	1		
11:10	JC15699-1F	2		(sample used for QC only; not part of login FA31827)
11:14	MP92464-SD1	10		
11:19	ZZZZZZ	2		
11:23	ZZZZZZ	2		
11:27	MA38907-CCVA2	1		

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

	Time	Sample Description	Dilution Factor	PS Recov	Comments
	11:32	MA38907-CCB2	1		
	11:36	ZZZZZZ	2		
	11:41	ZZZZZZ	2		
	11:45	ZZZZZZ	2		
	11:50	ZZZZZZ	2		
	11:54	ZZZZZZ	2		
	11:59	ZZZZZZ	2		
	12:03	ZZZZZZ	2		
	12:08	ZZZZZZ	2		
	12:12	ZZZZZZ	2		
	12:17	MA38907-CCVA3	1		
	12:21	MA38907-CCB3	1		
	12:25	ZZZZZZ	2		
	12:30	ZZZZZZ	2		
	12:34	ZZZZZZ	2		
	12:39	ZZZZZZ	2		
	12:43	ZZZZZZ	2		
	12:48	ZZZZZZ	2		
	12:52	ZZZZZZ	2		
	12:56	ZZZZZZ	2		
	13:01	MA38907-CCVA4	1		
	13:05	MA38907-CCB4	1		
	13:10	ZZZZZZ	1		
	13:14	MA38907-CRI2	1		
	13:19	MA38907-CCVA5	1		
	13:23	MA38907-CCB5	1		
	13:31	ZZZZZZ	1		
	13:36	ZZZZZZ	1		
	13:40	ZZZZZZ	2		
	13:45	FA31827-2	1		
---------->	Last reportable sample/prep for job FA31827				
	13:49	ZZZZZZ	1		
	13:54	ZZZZZZ	1		
	13:58	ZZZZZZ	2		

SGS Accutest Instrument Runlog
Inorganics Analyses

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

Time	Sample Description	Dilution Factor	PS Recov	Comments
14:03	ZZZZZZ	2		
14:07	MA38907-CCVA6	1		
14:11	MA38907-CCB6	1		
14:16	ZZZZZZ	1		
14:20	ZZZZZZ	1		
14:25	ZZZZZZ	1		
14:29	ZZZZZZ	1		
14:34	MP92462-MB1	1		
14:38	MP92462-B1	1		
14:43	MP92462-S1	1		
14:47	MP92462-S2	1		
14:52	JC15718-1	1		(sample used for QC only; not part of login FA31827)
14:56	MA38907-CCVA7	1		
15:00	MA38907-CCB7	1		
15:05	ZZZZZZ	1		
15:09	ZZZZZZ	1		
15:14	ZZZZZZ	1		
15:18	MA38907-CRI3	1		
15:23	MA38907-CCVA8	1		
15:27	MA38907-CCB8	1		

----------> Last reportable CCB for job FA31827
Refer to raw data for calibration curve and standards.

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
08:59	MA38907-STD1	100	100	100	100	100	100	100	100
09:03	MA38907-STD2	100	100	100	100	100	100	100	100
09:08	MA38907-STD3	100	100	100	100	100	100	100	100
09:12	MA38907-STD4	100	100	100	100	100	100	100	100
09:17	MA38907-STD5	101.185	100.586	100.788	100.824	99.817	99.57	100.052	101.597
09:21	MA38907-STD6	101.669	100.342	100.719	100.524	99.241	100.221	100.7	100.965
09:26	MA38907-STD7	103.589	100.819	100.917	102.233	100.145	100.709	101.644	101.786
09:30	MA38907-STD8	102.397	99.591	100.476	101.613	99.657	100.388	101.618	100.549
09:34	MA38907-STD9	104.018	99.505	100.492	101.461	100.999	100.971	102.05	101.02
09:39	MA38907-STD10	104.261	100.788	100.308	101.7	98.952	99.279	101.56	100.881
09:43	MA38907-STD11	104.769	99.638	101.137	101.834	98.813	100.367	100.381	99.666
09:48	MA38907-STD12	103.054	98.294	98.714	98.863	97.007	97.824	97.33	96.873
09:52	MA38907-STD13	105.332	99.958	99.286	100.607	98.625	98.193	99.422	97.462
10:03	ZZZZZZ	108.346	100.755	102.794	102.606	100.397	102.613	101.89	101.489
10:07	MA38907-ICVA1	107.561	101.052	100.579	99.797	99.954	100.208	99.556	98.455
10:12	MA38907-ICV1	108.136	100.002	100.064	100.294	99.093	100.54	100.057	101.67
10:16	MA38907-ICB1	108.28	99.875	100.54	101.518	99.392	100.818	101.429	100.209
10:20	MA38907-CRI1	109.896	101.131	101.882	102.178	100.69	101.585	101.473	102.167
10:25	MA38907-ICSA1	101.268	94.622	93.065	94.855	91.908	91.496	91.944	87.297
10:30	MA38907-ICSAB1	102.018	98.395	97.618	100.163	95.557	95.252	96.434	89.277
10:34	ZZZZZZ	110.966	105.222	104.204	104.025	104.315	104.091	104.485	103.783
10:39	MA38907-CCVA1	110.198	105.547	105.865	105.682	103.355	104.626	104.227	101.789
10:43	MA38907-CCB1	109.093	105.541	105.946	107.009	104.42	106.415	105.736	102.582
10:48	MP92464-MB1	112.543	107.4	108.332	111.258	109.882	113.938	114.917	102.869
10:52	MP92464-B1	113.252	109.864	108.573	108.466	108.143	108.032	106.424	106.116
10:56	MP92464-S1	109.702	106.435	106.803	108.01	105.458	107.343	105.62	102.983
11:01	MP92464-S2	111.23	108.558	107.127	107.967	106.152	107.438	106.242	103.408
11:05	ZZZZZZ	111.912	107.149	107.22	107.855	105.898	106.273	106.296	104.778
11:10	JC15699-1F	111.093	109.562	109.156	111.051	110.04	113.02	112.013	98.167
11:14	MP92464-SD1	115.318	113.157	111.848	111.811	110.054	110.79	110.055	107.023
11:19	ZZZZZZ	111.4	110.232	111.85	112.945	111.219	113.656	115.494	98.574
11:23	ZZZZZZ	112.934	111.098	112.24	114.94	111.523	113.868	116.011	100.737
11:27	MA38907-CCVA2	114.112	110.286	110.241	112.748	106.112	109.684	109.061	103.931

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
11:32	MA38907-CCB2	113.583	110.602	110.745	113.992	106.851	109.19	109.928	105.429
11:36	ZZZZZZ	114.641	110.62	111.247	114.191	112.147	114.705	116.705	100.095
11:41	ZZZZZZ	115.592	111.742	111.788	113.65	114.164	115.036	116.781	101.253
11:45	ZZZZZZ	111.43	110.776	110.218	111.111	112.365	114.225	114.326	100.002
11:50	ZZZZZZ	111.31	107.69	109.637	113.232	107.53	111.512	113.602	96.754
11:54	ZZZZZZ	113.739	110.939	110.384	113.235	111.631	112.067	114.567	98.442
11:59	ZZZZZZ	112.556	110.985	111.917	115.126	110.681	114.906	115.714	98.137
12:03	ZZZZZZ	114.894	112.206	112.883	116.217	113.734	117.201	118.288	100.626
12:08	ZZZZZZ	110.938	107.431	105.563	110.299	106.031	109.826	111.986	96.382
12:12	ZZZZZZ	116.11	111.635	112.128	113.499	112.715	116.185	117.559	101.792
12:17	MA38907-CCVA3	117.004	111.625	111.198	111.376	107.465	109.498	110.121	104.187
12:21	MA38907-CCB3	117.452	109.786	110.291	113.66	107.991	110.812	111.011	107.2
12:25	ZZZZZZ	113.291	108.93	108.366	111.075	111.72	116.173	114.006	99.241
12:30	ZZZZZZ	116.046	110.915	109.643	112.174	112.614	115.799	115.52	101.597
12:34	ZZZZZZ	116.738	110.391	110.299	112.39	112.122	115.107	114.36	102.731
12:39	ZZZZZZ	112.19	109.813	108.879	111.891	110.263	113.691	115.306	98.273
12:43	ZZZZZZ	113.914	109.758	108.241	111.633	111.332	114.59	115.077	99.866
12:48	ZZZZZZ	116.202	110.161	109.664	112.061	110.61	114.534	115.875	101.494
12:52	ZZZZZZ	116.283	112.763	109.577	112.689	113.79	115.954	116.466	102.392
12:56	ZZZZZZ	114.308	111.33	112.063	115.464	113.338	117.986	118.744	102.889
13:01	MA38907-CCVA4	117.299	111.986	111.367	112.346	108.887	109.926	109.912	105.227
13:05	MA38907-CCB4	118.338	112.918	110.653	111.709	110.319	110.84	110.477	108.644
13:10	ZZZZZZ	119.13	113.574	112.089	113.738	110.819	112.412	111.299	109.078
13:14	MA38907-CRI2	118.808	111.897	110.609	111.374	110.313	110.698	109.998	108.161
13:19	MA38907-CCVA5	118.735	112.771	111.323	110.832	109.312	110.131	108.413	105.869
13:23	MA38907-CCB5	117.393	111.151	111.008	111.458	108.114	109.846	111.025	106.832
13:31	ZZZZZZ	123.767	115.701	114.389	112.859	112.315	114.278	110.817	109.652
13:36	ZZZZZZ	119.32	113.309	114.046	114.271	110.351	112.748	112.664	107.266
13:40	ZZZZZZ	120.293	112.417	112.418	111.894	109.095	111.12	111.061	106.892
13:45	FA31827-2	117.438	113.608	111.939	111.192	107.705	111.086	109.077	102.779
13:49	ZZZZZZ	113.838	110.651	108.448	109.544	106.273	107.324	107.862	99.985
13:54	ZZZZZZ	117.881	111.254	108.68	109.737	107.629	109.211	107.93	100.978
13:58	ZZZZZZ	119.573	110.846	110.252	111.528	108.409	110.169	110.163	102.449

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4	Istd#5	Istd#6	Istd#7	Istd#8
14:03	ZZZZZZ	117.463	110.218	111.195	112.214	107.427	111.497	111.223	102.263
14:07	MA38907-CCVA6	120.53	111.062	109.422	111.025	108.3	109.055	108.23	104.734
14:11	MA38907-CCB6	121.619	110.773	111.318	113.127	109.025	110.888	110.493	107.714
14:16	ZZZZZZ	118.989	109.456	109.02	110.479	106.823	108.934	108.147	104.759
14:20	ZZZZZZ	117.844	109.196	108.985	108.963	105.823	108.852	108.012	101.45
14:25	ZZZZZZ	120.238	111.41	110.467	111.434	108.508	111.643	110.2	103.5
14:29	ZZZZZZ	118.713	110.179	110.415	111.183	106.801	109.834	109.488	106.615
14:34	MP92462-MB1	120.753	111.296	109.355	111.563	107.413	110.245	109.566	105.503
14:38	MP92462-B1	120.78	110.843	110.896	110.612	107.712	110.968	109.073	105.703
14:43	MP92462-S1	111.71	106.986	107.123	107.223	104.121	107.116	105.045	97.208
14:47	MP92462-S2	109.729	105.826	106.352	108.383	102.827	107.013	105.829	96.621
14:52	JC15718-1	112.693	109.777	110.517	110.431	106.275	109.705	108.18	99.935
14:56	MA38907-CCVA7	121.117	115.517	115.318	114.705	112.43	114.198	111.543	108.021
15:00	MA38907-CCB7	120.414	112.037	112.88	114.213	109.346	112.719	113.082	107.634
15:05	ZZZZZZ	119.129	111.921	112.183	111.63	109.8	112.173	111.044	104.328
15:09	ZZZZZZ	121.724	113.225	114.096	113.506	109.617	114.136	111.498	108.443
15:14	ZZZZZZ	120.437	112.742	113.341	114.845	111.23	113.088	112.119	108.845
15:18	MA38907-CRI3	121.304	113.278	112.158	113.029	111.35	112.758	110.788	109.52
15:23	MA38907-CCVA8	121.273	111.902	111.829	112.078	108.975	111.641	109.485	107.286
15:27	MA38907-CCB8	119.893	111.071	111.451	112.452	108.893	111.001	111.851	108.318

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#1	Lithium	60-125 %	60-125 %
Istd#2	Scandium (45-1)	60-125 %	60-125 %
Istd#3	Scandium (45-2)	60-125 %	60-125 %
Istd#4	Scandium (45-3)	60-125 %	60-125 %
Istd#5	Germanium (74-1)	60-125 %	60-125 %
Istd#6	Germanium (74-2)	60-125 %	60-125 %
Istd#7	Germanium (74-3)	60-125 %	60-125 %
Istd#8	Rhodium (103-1)	60-125 %	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
08:59	MA38907-STD1	100	100	100	100	100	100	100	100
09:03	MA38907-STD2	100	100	100	100	100	100	100	100
09:08	MA38907-STD3	100	100	100	100	100	100	100	100
09:12	MA38907-STD4	100	100	100	100	100	100	100	100
09:17	MA38907-STD5	99.827	100.562	100.306	100.885	101.063	100.614	101.183	101.777
09:21	MA38907-STD6	100.429	101.27	99.45	100.502	101.001	101.276	100.814	101.39
09:26	MA38907-STD7	101.902	101.075	100.716	101.375	101.052	101.502	101.92	102.24
09:30	MA38907-STD8	100.774	100.69	99.858	100.532	100.756	101.661	101.635	101.094
09:34	MA38907-STD9	100.572	101.258	99.848	100.697	100.486	101.365	102.146	100.832
09:39	MA38907-STD10	99.886	100.199	100.692	100.406	101.728	100.274	101.147	102.004
09:43	MA38907-STD11	100.851	99.576	99.168	101.34	101.056	101.189	101.169	101.19
09:48	MA38907-STD12	97.17	96.874	97.427	98.79	99.134	99.788	100.841	99.849
09:52	MA38907-STD13	96.299	96.592	97.322	97.618	99.081	100.519	100.781	99.823
10:03	ZZZZZZ	102.388	100.6	99.858	103.121	101.043	103.033	101.587	102.091
10:07	MA38907-ICVA1	97.928	96.944	98.952	99.268	100.702	100.73	99.953	101.421
10:12	MA38907-ICV1	100.63	100.443	99.886	99.827	100.101	100.64	101.707	102.199
10:16	MA38907-ICB1	101.11	100.898	98.858	100.704	100.68	100.287	101.566	101.575
10:20	MA38907-CRI1	102.107	100.564	101.695	102.277	101.612	101.847	101.779	102.651
10:25	MA38907-ICSA1	85.183	85.931	91.068	89.864	96.012	93.764	94.509	97.172
10:30	MA38907-ICSAB1	86.186	86.829	92.359	92.295	95.84	94.12	93.957	96.827
10:34	ZZZZZZ	102.531	101.72	103.963	103.614	103.052	101.458	100.095	102.803
10:39	MA38907-CCVA1	101.287	99.814	101.221	102.541	102.68	101.984	100.078	102.922
10:43	MA38907-CCB1	103.294	103.173	103.149	103.857	100.364	101.706	101.655	100.86
10:48	MP92464-MB1	103.527	103.876	101.302	103.163	99.668	100.84	100.321	100.04
10:52	MP92464-B1	103.192	102.954	105.57	104.976	105.341	103.362	103.033	105.148
10:56	MP92464-S1	101.928	100.53	103.88	104.551	102.81	103.689	100.9	103.513
11:01	MP92464-S2	101.982	101.154	104.75	103.961	103.644	102.409	101.49	103.854
11:05	ZZZZZZ	103.419	103.256	104.285	104.865	102.269	101.795	100.441	102.137
11:10	JC15699-1F	98.693	98.01	100.753	102.116	100.018	101.278	99.027	100.566
11:14	MP92464-SD1	105.527	104.372	108.403	108.047	105.687	104.584	102.904	105.848
11:19	ZZZZZZ	99.478	99.32	100.292	102.106	98.958	99.886	99.571	99.436
11:23	ZZZZZZ	101.256	100.993	101.535	102.547	101.611	102.405	102.149	101.233
11:27	MA38907-CCVA2	104.059	104	103.183	103.961	103.317	103.017	102.777	103.196

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
11:32	MA38907-CCB2	105.621	106.2	104.784	105.339	102.23	102.502	103.34	102.851
11:36	ZZZZZZ	101.255	100.395	101.497	102.553	100.296	101.926	101.097	99.959
11:41	ZZZZZZ	101.531	100.824	102.351	103.222	101.488	102.054	101.198	102.211
11:45	ZZZZZZ	101.238	99.214	102.911	102.086	101.061	101.266	101.274	101.88
11:50	ZZZZZZ	97.299	98.111	99.143	99.867	99.374	100.877	101.393	100.775
11:54	ZZZZZZ	98.946	98.8	101.579	101.317	101.044	101.204	101.324	101.589
11:59	ZZZZZZ	100.96	100.767	101.173	102.858	100.224	101.792	103.024	101.438
12:03	ZZZZZZ	102.021	102.085	103.03	103.581	101.645	102.484	103.379	102.006
12:08	ZZZZZZ	97.855	98.582	98.635	97.71	99.374	100.812	101.363	101.093
12:12	ZZZZZZ	104.168	102.818	102.683	104.869	103.303	103.897	102.707	103.649
12:17	MA38907-CCVA3	106.037	104.188	105.125	105.949	105.761	106.423	104.109	106.025
12:21	MA38907-CCB3	107.041	107.1	106.421	107.396	104.126	104.06	104.69	105.484
12:25	ZZZZZZ	101.076	100.683	100.709	101.929	101.226	102.029	102.875	101.474
12:30	ZZZZZZ	101.239	99.933	102.579	103.456	102.149	103.802	101.789	103.544
12:34	ZZZZZZ	103.904	102.46	103.373	104.235	103.711	104.206	104.037	104.398
12:39	ZZZZZZ	100.86	100.641	101.468	102.3	101.439	102.41	103.624	101.192
12:43	ZZZZZZ	101.333	100.917	102.066	102.097	101.917	102.643	104.06	102.654
12:48	ZZZZZZ	102.514	101.691	103.263	102.23	104.673	103.733	103.461	104.763
12:52	ZZZZZZ	103.561	102.667	103.873	103.078	104.229	104.173	104.15	104.547
12:56	ZZZZZZ	104.955	105.124	103.374	105.965	103.01	104.812	105.754	103.554
13:01	MA38907-CCVA4	105.209	105.095	105.362	106.022	106.012	105.39	105.369	106.593
13:05	MA38907-CCB4	107.404	106.54	108.138	107.709	106.245	105.169	103.804	106.868
13:10	ZZZZZZ	107.94	108.467	107.571	109.217	106.063	106.878	106.027	106.226
13:14	MA38907-CRI2	106.325	105.959	106.972	107.452	104.739	104.105	103.946	105.682
13:19	MA38907-CCVA5	105.145	103.011	106.386	106.202	105.959	105.086	102.968	105.539
13:23	MA38907-CCB5	107.007	106.829	106.826	107.098	103.325	104.883	104.004	104.43
13:31	ZZZZZZ	110.289	106.193	108.014	110.712	106.044	107.154	104.184	105.484
13:36	ZZZZZZ	108.322	106.445	105.933	109.239	104.816	106.488	105.398	105.338
13:40	ZZZZZZ	106.235	104.982	107.275	107.139	103.859	105.178	102.689	105.569
13:45	FA31827-2	102.8	100.742	104.982	107.192	103.755	105.512	102.765	104.452
13:49	ZZZZZZ	99.45	99.71	102.27	103.31	100.814	103.195	103.535	102.455
13:54	ZZZZZZ	99.706	98.827	104.788	104.509	104.033	103.909	102.89	104.454
13:58	ZZZZZZ	104.024	103.091	104.867	107.437	105.082	105.508	104.458	105.49

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

Time	Sample Description	Istd#9	Istd#10	Istd#11	Istd#12	Istd#13	Istd#14	Istd#15	Istd#16
14:03	ZZZZZZ	103.909	104.12	103.894	107.861	103.371	106.522	105.904	105.393
14:07	MA38907-CCVA6	104.544	103.148	105.553	105.826	105.682	106.133	104.152	106.037
14:11	MA38907-CCB6	108.553	107.009	106.493	108.824	106.067	107.181	105.486	106.777
14:16	ZZZZZZ	106.086	104.844	105.98	106.678	103.086	104.789	103.747	104.018
14:20	ZZZZZZ	102.753	101.173	102.811	106.406	103.409	104.995	103.227	104.215
14:25	ZZZZZZ	104.882	102.877	105.352	108.3	105.723	107.457	104.785	105.888
14:29	ZZZZZZ	106.405	106.752	105.269	107.653	104.014	104.737	104.112	104.89
14:34	MP92462-MB1	106.613	104.452	105.106	106.862	104.864	106.446	102.762	105.303
14:38	MP92462-B1	106.498	104.114	105.801	107.075	105.441	106.03	104.496	106.148
14:43	MP92462-S1	97.914	96.237	100.384	102.566	103.368	103.706	102.742	104.053
14:47	MP92462-S2	96.909	96.192	99.088	102.758	101.496	102.514	102.043	102.848
14:52	JC15718-1	99.996	99.37	103.388	105.08	105.048	105.475	103.752	106.322
14:56	MA38907-CCVA7	108.558	106.54	108.093	110.612	109.073	110.639	107.347	109.472
15:00	MA38907-CCB7	108.941	108.714	107.267	110.37	106.061	108.867	107.846	105.35
15:05	ZZZZZZ	104.952	102.606	107.365	108.58	106.935	108.402	105.174	108.27
15:09	ZZZZZZ	109.514	106.869	108.173	111.909	107.424	110.791	106.585	108.488
15:14	ZZZZZZ	110.095	108.204	109.637	112.015	106.965	109.334	107.008	107.01
15:18	MA38907-CRI3	108.702	107.049	108.676	110.781	107.17	107.403	106.268	107.302
15:23	MA38907-CCVA8	106.755	103.804	106.638	108.805	107.458	109.35	105.19	107.47
15:27	MA38907-CCB8	108.499	108.394	107.159	110.175	106.231	108.051	106.769	107.408

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#9	Rhodium (103-2)	60-125 %	60-125 %
Istd#10	Rhodium (103-3)	60-125 %	60-125 %
Istd#11	Indium (115-1)	60-125 %	60-125 %
Istd#12	Indium (115-2)	60-125 %	60-125 %
Istd#13	Terbium (159-1)	60-125 %	60-125 %
Istd#14	Terbium (159-2)	60-125 %	60-125 %
Istd#15	Terbium (159-3)	60-125 %	60-125 %
Istd#16	Holmium (165-1)	60-125 %	60-125 %

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

Time	Sample Description	Istd#17	Istd#18	Istd#19
08:59	MA38907-STD1	100	100	100
09:03	MA38907-STD2	100	100	100
09:08	MA38907-STD3	100	100	100
09:12	MA38907-STD4	100	100	100
09:17	MA38907-STD5	100.601	101.346	100.842
09:21	MA38907-STD6	99.998	101.254	100.129
09:26	MA38907-STD7	101.458	103.306	102.604
09:30	MA38907-STD8	100.988	102.312	102.2
09:34	MA38907-STD9	101.51	102.171	102.146
09:39	MA38907-STD10	100.519	101.099	100.319
09:43	MA38907-STD11	101.565	101.317	100.802
09:48	MA38907-STD12	100.049	98.636	98.264
09:52	MA38907-STD13	100.831	97.594	98.43
10:03	ZZZZZZ	102.891	102.382	103.114
10:07	MA38907-ICVA1	100.734	100.489	99.601
10:12	MA38907-ICV1	100.817	101.993	101.573
10:16	MA38907-ICB1	100.812	101.043	101.118
10:20	MA38907-CRI1	102.105	102.872	102.821
10:25	MA38907-ICSA1	94.779	91.567	89.261
10:30	MA38907-ICSAB1	94.886	90.291	87.923
10:34	ZZZZZZ	101.784	101.217	101.117
10:39	MA38907-CCVA1	102.514	99.488	99.917
10:43	MA38907-CCB1	102.792	101.883	101.385
10:48	MP92464-MB1	101.189	104.305	102.654
10:52	MP92464-B1	103.867	103.293	101.324
10:56	MP92464-S1	103.697	100.75	101.17
11:01	MP92464-S2	102.754	102.029	101.266
11:05	ZZZZZZ	101.995	100.76	100.55
11:10	JC15699-1F	101.131	99.184	97.421
11:14	MP92464-SD1	105.075	104.606	103.424
11:19	ZZZZZZ	100.131	95.858	96.242
11:23	ZZZZZZ	102.191	94.837	96.297
11:27	MA38907-CCVA2	103.239	98.249	99.391

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

Time	Sample Description	Istd#17	Istd#18	Istd#19
11:32	MA38907-CCB2	102.679	99.999	101.464
11:36	ZZZZZZ	101.808	98.493	98.343
11:41	ZZZZZZ	102.342	96.296	97.506
11:45	ZZZZZZ	102.585	97.135	97.87
11:50	ZZZZZZ	101.908	92.317	94.259
11:54	ZZZZZZ	101.718	94.09	94.482
11:59	ZZZZZZ	103.29	93.915	95.728
12:03	ZZZZZZ	103.184	96.35	96.359
12:08	ZZZZZZ	101.655	94.54	94.566
12:12	ZZZZZZ	104.892	99.299	99.593
12:17	MA38907-CCVA3	106.845	101.363	102.319
12:21	MA38907-CCB3	105.226	103.543	103.602
12:25	ZZZZZZ	102.483	97.931	98.202
12:30	ZZZZZZ	104.81	97.708	98.465
12:34	ZZZZZZ	104.499	99.146	99.504
12:39	ZZZZZZ	103.5	95.562	96.901
12:43	ZZZZZZ	103.403	98.136	97.818
12:48	ZZZZZZ	104.815	98.919	99.767
12:52	ZZZZZZ	104.523	98.969	99.725
12:56	ZZZZZZ	105.192	98.451	100.22
13:01	MA38907-CCVA4	106.125	101.651	101.804
13:05	MA38907-CCB4	106.239	105.009	104.43
13:10	ZZZZZZ	107.268	104.225	105.449
13:14	MA38907-CRI2	104.394	103.497	103.394
13:19	MA38907-CCVA5	106.488	101.59	102.714
13:23	MA38907-CCB5	105.584	102.662	104.308
13:31	ZZZZZZ	108.536	106.613	108.017
13:36	ZZZZZZ	107.767	101.81	105.076
13:40	ZZZZZZ	105.712	102.904	103.425
13:45	FA31827-2	106.164	101.513	103.663
13:49	ZZZZZZ	104.347	98.911	100.092
13:54	ZZZZZZ	104.854	99.501	100.873
13:58	ZZZZZZ	106.321	102.925	104.642

INTERNAL STANDARD SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
Analyst: JO Run ID: MA38907
Parameters: Ag

Time	Sample Description	Istd#17	Istd#18	Istd#19
14:03	ZZZZZZ	107.776	101.815	105.068
14:07	MA38907-CCVA6	107.565	102.884	103.253
14:11	MA38907-CCB6	107.826	104.577	106.772
14:16	ZZZZZZ	105.353	105.28	106.505
14:20	ZZZZZZ	106.678	101.717	102.981
14:25	ZZZZZZ	108.131	101.323	104.877
14:29	ZZZZZZ	105.795	101.69	103.911
14:34	MP92462-MB1	106.183	104.195	106.102
14:38	MP92462-B1	107.961	104.101	105.245
14:43	MP92462-S1	105.532	96.917	98.142
14:47	MP92462-S2	104.515	95.369	96.931
14:52	JC15718-1	106.403	98.355	99.804
14:56	MA38907-CCVA7	111.593	104.289	107.562
15:00	MA38907-CCB7	108.96	104.02	107.655
15:05	ZZZZZZ	109.319	103.35	105.639
15:09	ZZZZZZ	110.939	106.428	109.373
15:14	ZZZZZZ	109.945	104.452	108.393
15:18	MA38907-CRI3	108.962	105.932	106.622
15:23	MA38907-CCVA8	109.575	103.896	105.687
15:27	MA38907-CCB8	108.715	105.095	107.584

! = Outside limits.

LEGEND:

Istd#	Parameter	Limits	CCV/CCB Limits
Istd#17	Holmium (165-2)	60-125 %	60-125 %
Istd#18	Bismuth (209-1)	60-125 %	60-125 %
Istd#19	Bismuth (209-2)	60-125 %	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
QC Limits: result < RL Run ID: MA38907 Units: ug/l

Time:			10:16		10:43		11:32		12:21	
Sample ID:			ICB1		CCB1		CCB2		CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	25	.34								
Antimony	2.0	.12								
Arsenic	0.50	.025	anr							
Barium	1.0	.011								
Beryllium	0.50	.004								
Boron	25	3.2								
Cadmium	0.50	.011								
Calcium	250	2.7								
Chromium	1.0	.016								
Cobalt	0.50	.003								
Copper	2.0	.1	anr							
Iron	25	.51								
Lead	0.50	.009	anr							
Magnesium	250	.39								
Manganese	1.0	.02								
Molybdenum	1.0	.02								
Nickel	1.0	.025								
Potassium	250	4.9								
Selenium	0.50	.031								
Silver	0.50	.019	0.00091	<1.0	0.013	<1.0	0.0099	<0.50	0.0067	<0.50
Sodium	250	8.7								
Strontium	5.0	.009								
Thallium	0.50	.016								
Tin	5.0	.019								
Titanium	1.0	.047								
Vanadium	1.0	.045								
Zinc	5.0	.11	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
QC Limits: result < RL Run ID: MA38907 Units: ug/l

Time:			13:05		13:23		14:11		15:00	
Sample ID:			CCB4		CCB5		CCB6		CCB7	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	25	.34								
Antimony	2.0	.12								
Arsenic	0.50	.025	anr							
Barium	1.0	.011								
Beryllium	0.50	.004								
Boron	25	3.2								
Cadmium	0.50	.011								
Calcium	250	2.7								
Chromium	1.0	.016								
Cobalt	0.50	.003								
Copper	2.0	.1	anr							
Iron	25	.51								
Lead	0.50	.009	anr							
Magnesium	250	.39								
Manganese	1.0	.02								
Molybdenum	1.0	.02								
Nickel	1.0	.025								
Potassium	250	4.9								
Selenium	0.50	.031								
Silver	0.50	.019	0.0068	<0.50	0.0049	<0.50	0.0064	<2.0	0.011	<2.0
Sodium	250	8.7								
Strontium	5.0	.009								
Thallium	0.50	.016								
Tin	5.0	.019								
Titanium	1.0	.047								
Vanadium	1.0	.045								
Zinc	5.0	.11	anr							

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
QC Limits: result < RL Run ID: MA38907 Units: ug/l

Time:			15:27	
Sample ID:			CCB8	
Metal	RL	IDL	raw	final
Aluminum	25	.34		
Antimony	2.0	.12		
Arsenic	0.50	.025	anr	
Barium	1.0	.011		
Beryllium	0.50	.004		
Boron	25	3.2		
Cadmium	0.50	.011		
Calcium	250	2.7		
Chromium	1.0	.016		
Cobalt	0.50	.003		
Copper	2.0	.1	anr	
Iron	25	.51		
Lead	0.50	.009	anr	
Magnesium	250	.39		
Manganese	1.0	.02		
Molybdenum	1.0	.02		
Nickel	1.0	.025		
Potassium	250	4.9		
Selenium	0.50	.031		
Silver	0.50	.019	0.0064	<2.0
Sodium	250	8.7		
Strontium	5.0	.009		
Thallium	0.50	.016		
Tin	5.0	.019		
Titanium	1.0	.047		
Vanadium	1.0	.045		
Zinc	5.0	.11	anr	

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
QC Limits: 90 to 110 % Recovery Run ID: MA38907 Units: ug/l

Time:		10:07			10:12			10:39	
Sample ID:	ICVA	ICVA1		ICV	ICV1		CCVA	CCVA1	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	anr								
Iron									
Lead	anr								
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver	60	60.9	101.5				50	51.4	102.8
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
QC Limits: 90 to 110 % Recovery Run ID: MA38907 Units: ug/l

Time:		11:27			12:17			13:01	
Sample ID:	CCVA	CCVA2		CCVA	CCVA3		CCVA	CCVA4	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	anr								
Iron									
Lead	anr								
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver	50	51.2	102.4	50	51.1	102.2	50	51.3	102.6
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
QC Limits: 90 to 110 % Recovery Run ID: MA38907 Units: ug/l

Time:		13:19			14:07			14:56	
Sample ID:	CCVA	CCVA5		CCVA	CCVA6		CCVA	CCVA7	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum									
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	anr								
Iron									
Lead	anr								
Magnesium									
Manganese									
Molybdenum									
Nickel									
Potassium									
Selenium									
Silver	50	50.9	101.8	50	50.6	101.2	50	51.6	103.2
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
QC Limits: 90 to 110 % Recovery Run ID: MA38907 Units: ug/l

Time:		15:23	
Sample ID:	CCVA	CCVA8	
Metal	True	Results	% Rec
Aluminum			
Antimony			
Arsenic	anr		
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper	anr		
Iron			
Lead	anr		
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silver	50	50.9	101.8
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
QC Limits: 70 to 130 % Recovery Run ID: MA38907 Units: ug/l

Time:			10:20		13:14		15:18	
Sample ID:	CRI	CRIA	CRI1		CRI2		CRI3	
Metal	True	True	Results	% Rec	Results	% Rec	Results	% Rec
Aluminum	25	25						
Antimony	2.0	0.25						
Arsenic	0.50	0.50	anr					
Barium	1.0	0.50						
Beryllium	0.50	0.25						
Boron	25	2.5						
Cadmium	0.50	0.25						
Calcium	250	125						
Chromium	1.0	2.0						
Cobalt	0.50	0.25						
Copper	2.0	2.0	anr					
Iron	25	25						
Lead	0.50	0.25	anr					
Magnesium	250	125						
Manganese	0.50	0.25						
Molybdenum	1.0	0.50						
Nickel	1.0	2.0						
Potassium	250	125						
Selenium	0.50	0.50						
Silver	0.50	1.0	0.52	104.0	0.53	106.0	0.52	104.0
Sodium	250	125						
Strontium	5.0	0.50						
Thallium	0.50	0.25						
Tin	5.0	0.50						
Titanium	1.0	0.50						
Vanadium	1.0	2.0						
Zinc	5.0	2.0	anr					

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

File ID: XB031216M1.CSV Date Analyzed: 03/12/16 Methods: EPA 200.8, SW846 6020A
QC Limits: 80 to 120 % Recovery Run ID: MA38907 Units: ug/l

Time:			10:25		10:30	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	100000	100000	93200	93.2	94500	94.5
Antimony			0.19		0.31	
Arsenic		20	0.19		20.2	101.0
Barium			0.10		0.12	
Beryllium			0.0090		0.012	
Boron			3.1		1.2	
Cadmium		20	0.60		19.3	96.5
Calcium	100000	100000	95000	95.0	96300	96.3
Chromium		20	1.2		20.6	103.0
Cobalt		20	0.024		19.2	96.0
Copper		20	0.65		19.1	95.5
Iron	100000	100000	87300	87.3	87500	87.5
Lead			0.24		0.24	
Magnesium	100000	100000	89900	89.9	90900	90.9
Manganese		20	0.34		19.6	98.0
Molybdenum	2000	2000	2030	101.5	2070	103.5
Nickel		20	0.32		18.5	92.5
Potassium	100000	100000	95400	95.4	97400	97.4
Selenium		20	0.040		21.4	107.0
Silver		20	0.028		19.5	97.5
Sodium	100000	100000	93500	93.5	94700	94.7
Strontium			0.75		0.76	
Thallium			0.0086		0.0040	
Tin			0.29		0.23	
Titanium	2000	2000	1980	99.0	2010	100.5
Vanadium		20	0.38		22.1	110.5
Zinc		20	1.7		19.0	95.0

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

QC Batch ID: MP92393
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 03/10/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.34	1.3		
Antimony	2.0	.12	.26	0.63	<2.0
Arsenic	1.0	.025	.034	0.023	<1.0
Barium	1.0	.011	.028		
Beryllium	0.50	.004	.013	0.0026	<0.50
Boron	50	3.2			
Cadmium	0.50	.011	.12	0.0072	<0.50
Calcium	250	2.7	3.7		
Chromium	4.0	.016	.1	0.050	<4.0
Cobalt	0.50	.003	.018		
Copper	4.0	.1	.14	0.096	<4.0
Iron	50	.51	2	0.52	<50
Lead	0.50	.009	.011	0.011	<0.50
Magnesium	250	.39	3.6		
Manganese	1.0	.02	.095	0.029	<1.0
Molybdenum	1.0	.02	.23		
Nickel	4.0	.025	.11	0.013	<4.0
Potassium	250	4.9	8.8		
Selenium	1.0	.031	.12	-0.047	<1.0
Silver	2.0	.019	.041	0.0032	<2.0
Sodium	250	8.7	2.5		
Strontium	5.0	.009	.015		
Thallium	0.50	.016	.013	0.0069	<0.50
Tin	5.0	.019	.38		
Titanium	1.0	.047	.56		
Vanadium	4.0	.045	.2		
Zinc	10	.11	1.2	0.032	<10

Associated samples MP92393: FA31827-1, FA31827-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

QC Batch ID: MP92393
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 03/10/16

Metal	FA31827-1 Original	MS	Spikelot MPXDW7	% Rec	QC Limits
Aluminum					
Antimony	0.16	105	100	104.8	70-130
Arsenic	0.36	94.0	100	93.6	70-130
Barium					
Beryllium	0.0076	99.5	100	99.5	70-130
Boron					
Cadmium	0.011	92.2	100	92.2	70-130
Calcium					
Chromium	0.10	95.8	100	95.7	70-130
Cobalt					
Copper	2.7	99.0	100	96.3	70-130
Iron	16.7	1960	2000	97.2	70-130
Lead	0.25	97.4	100	97.2	70-130
Magnesium					
Manganese	0.12	95.1	100	95.0	70-130
Molybdenum					
Nickel	0.096	93.5	100	93.4	70-130
Potassium					
Selenium	0.0	177	200	88.5	70-130
Silver	0.0	103	100	103.0	70-130
Sodium					
Strontium					
Thallium	0.022	93.9	100	93.9	70-130
Tin					
Titanium					
Vanadium					
Zinc	3.9	96.8	100	92.9	70-130

Associated samples MP92393: FA31827-1, FA31827-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

QC Batch ID: MP92393
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 03/10/16

Metal	FA31827-1 Original	MSD	Spikelot MPXDW7	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.16	111	100	110.8	5.6	10
Arsenic	0.36	98.5	100	98.1	4.7	10
Barium						
Beryllium	0.0076	105	100	105.0	5.4	10
Boron						
Cadmium	0.011	96.8	100	96.8	4.9	10
Calcium						
Chromium	0.10	101	100	100.9	5.3	10
Cobalt						
Copper	2.7	103	100	100.3	4.0	11
Iron	16.7	1960	2000	97.2	0.0	10
Lead	0.25	104	100	103.8	6.6	10
Magnesium						
Manganese	0.12	100	100	99.9	5.0	10
Molybdenum						
Nickel	0.096	99.0	100	98.9	5.7	10
Potassium						
Selenium	0.0	181	200	90.5	2.2	10
Silver	0.0	110	100	110.0	6.6	10
Sodium						
Strontium						
Thallium	0.022	99.9	100	99.9	6.2	10
Tin						
Titanium						
Vanadium						
Zinc	3.9	100	100	96.1	3.3	10

Associated samples MP92393: FA31827-1, FA31827-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FA31827
Account: ALSE - Accutest Laboratories Southeast, Inc.
Project: URSNCM: Pine Level Dump; Rains Crossroads Rd, Selma, NC

QC Batch ID: MP92393
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 03/10/16

Metal	BSP Result	Spikelot MPXDW7	% Rec	QC Limits
Aluminum				
Antimony	112	100	112.0	85-115
Arsenic	96.3	100	96.3	85-115
Barium				
Beryllium	102	100	102.0	85-115
Boron				
Cadmium	94.6	100	94.6	85-115
Calcium				
Chromium	99.3	100	99.3	85-115
Cobalt				
Copper	99.5	100	99.5	85-115
Iron	2010	2000	100.5	85-115
Lead	103	100	103.0	85-115
Magnesium				
Manganese	98.2	100	98.2	85-115
Molybdenum				
Nickel	98.8	100	98.8	85-115
Potassium				
Selenium	188	200	94.0	85-115
Silver	109	100	109.0	85-115
Sodium				
Strontium				
Thallium	99.6	100	99.6	85-115
Tin				
Titanium				
Vanadium				
Zinc	94.8	100	94.8	85-115

Associated samples MP92393: FA31827-1, FA31827-2

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested