ANALYTICAL REPORT

June 03, 2019

Cardno - Newark, DE

Sample Delivery Group:	L1099840
Samples Received:	05/17/2019
Project Number:	
Description:	Deer Park Fire
Report To:	Art Saunders 121 Continental Drive Suite 308 Newark, DE 19713

Entire Report Reviewed By:

Craig Cothron
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

90015953

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LCS(R3413503-1) WG1282671 05/21/19 23:24 BNAMS24 436
LCS(R3414602-1) WG1282671 05/23/19 19:39 BNAMS19 438
MS(R3413503-3) WG1282671 05/22/19 03:25 BNAMS24 439
MSD(R3413503-4) WG1282671 05/22/19 03:45 BNAMS24 441
8015M SVOC-GC-GLYCOLS 444
Surrogate Recovery 444
GW Surrogate Summary 444
WW Surrogate Summary 445
Matrix Spike / Duplicate 446
WG1283631 MS(R3413206-4) MSD(R3413206-5) 446
Laboratory Control Sample / Duplicate 447
WG1283631 LCS(R3413206-2) LCSD(R3413206-3) 447
Method Blank 448
WG1283631 R3413206-1 SVGC10 05/20/19 11:07 448
Sample Result Summary Organic Analysis Data Sheet 449
L1099840-01 05/21/19 20:37 SVGC10 449
Retention Time of Single Component Analytes 450
SVGC10 01/15/19 00:04 450
Calibration Factor of Single Component Analytes 451
SVGC10 01/15/19 00:04 451
Calibration Verification Single Component Analytes 452
SVGC10 01/15/19 01:34 452
SVGC10 05/20/19 10:31 453
SVGC10 05/20/19 12:18 454
SVGC10 05/20/19 18:39 455
SVGC10 05/21/19 17:57 456
SVGC10 05/21/19 22:24 457
Analytical Sequence 458
SVGC10 01/15/19 00:04 458
QC Result Summary Organic Analysis Data Sheet 459
BLANK(R3413206-1) WG1283631 05/20/19 11:07 SVGC10 459
LCS(R3413206-2) WG1283631 05/20/19 11:24 SVGC10 460
LCSD(R3413206-3) WG1283631 05/20/19 11:42 SVGC10 461
MS(R3413206-4) WG1283631 05/20/19 16:35 SVGC10 462
MSD(R3413206-5) WG1283631 05/20/19 16:52 SVGC10 463
8151 Chlorinated Acid Herbicides (GC) 465
Surrogate Recovery 465
WW Surrogate Summary 465
Laboratory Control Sample / Duplicate 466
WG1283676 LCS(R3413169-2) LCSD(R3413169-3) 466

Method Blank **467**

WG1283676 R3413169-1 SVGC11 05/21/19 01:29 467

Sample Result Summary Organic Analysis Data Sheet **468**

L1099840-01 05/21/19 02:10 SVGC11 468

Retention Time of Single Component Analytes **469**

SVGC11-1 05/20/19 12:13 469

SVGC11-2 05/20/19 12:13 470

Calibration Factor of Single Component Analytes **471**

SVGC11-1 05/20/19 12:13 471

SVGC11-2 05/20/19 12:13 473

Calibration Verification of Dual Column Analytes **475**

SVGC11-1 05/20/19 13:37 475

SVGC11-2 05/20/19 13:37 476

SVGC11-1 05/21/19 01:01 477

SVGC11-2 05/21/19 01:01 478

SVGC11-1 05/21/19 04:26 479

SVGC11-2 05/21/19 04:26 480

Analytical Sequence **481**

SVGC11 05/20/19 12:13 481

QC Result Summary Organic Analysis Data Sheet **482**

BLANK(R3413169-1) WG1283676 05/21/19 01:29 SVGC11 482

LCS(R3413169-2) WG1283676 05/21/19 01:43 SVGC11 483

LCSD(R3413169-3) WG1283676 05/21/19 01:56 SVGC11 484

Calc. Calculated Results **486**

Sample Result Inorganic Analysis Data Sheet **486**

L1099840-01 05/22/19 11:46 NONE 486

EPA 608.3 Pesticides (GC) **488**

Surrogate Recovery **488**

WW Surrogate Summary 488

GW Surrogate Summary 489

Matrix Spike / Duplicate **490**

WG1283994 MS(R3413628-3) MSD(R3413628-4) 490

Laboratory Control Sample / Duplicate **491**

WG1283994 LCS(R3413628-1) 491

Method Blank **492**

WG1283994 R3413628-2 SVGC30 05/21/19 14:53 492

Internal Standard & Retention Time **493**

SVGC30 AVG 493

Sample Result Summary Organic Analysis Data Sheet **494**

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Retention Time of Single Component Analytes 495
SVGC30-1 05/14/19 10:28 495
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Calibration Factor of Single Component Analytes 499
SVGC30-1 05/14/19 10:28 499
SVGC30-2 05/14/19 10:28 502
Pesticides Breakdown 505
SVGC30 05/21/19 07:27 505
Calibration Verification of Dual Column Analytes 506
SVGC30-1 05/14/19 12:20 506
SVGC30-2 05/14/19 12:20 507
SVGC30-1 05/21/19 11:35 508
SVGC30-2 05/21/19 11:35 509
Analytical Sequence 510
SVGC30 05/14/19 10:28 510
Single Component Analysis Identification 511
BLANK(R3413628-2) WG1283994 05/21/19 14:53 SVGC30 511
LCS(R3413628-1) WG1283994 05/21/19 14:41 SVGC30 512
MS(R3413628-3) WG1283994 05/21/19 17:35 SVGC30 513
MSD(R3413628-4) WG1283994 05/21/19 17:47 SVGC30 514
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BLANK(R3413628-2) WG1283994 05/21/19 14:53 SVGC30 515
LCS(R3413628-1) WG1283994 05/21/19 14:41 SVGC30 516
MS(R3413628-3) WG1283994 05/21/19 17:35 SVGC30 517
MSD(R3413628-4) WG1283994 05/21/19 17:47 SVGC30 518
EPA-608.3 Polychlorinated Biphenyls (GC) 520
Surrogate Recovery 520
WW Surrogate Summary 520
GW Surrogate Summary 521
Matrix Spike / Duplicate 522
WG1283994 MS(R3413779-3) MSD(R3413779-4) 522
Laboratory Control Sample / Duplicate 523
WG1283994 LCS(R3413779-2) 523
Method Blank 524
WG1283994 R3413779-1 SVGC28 05/21/19 17:23 524
Internal Standard & Retention Time 525
SVGC28 AVG 525
Sample Result Summary Organic Analysis Data Sheet 526
L1099840-01 05/21/19 18:00 SVGC28 526
Retention Time of Multicomponent Analytes 527

SVGC28-1 05/20/19 08:09 527
SVGC28-2 05/20/19 08:09 529
Calibration Factor of Multicomponent Analytes 531
SVGC28-1 05/20/19 08:09 531
SVGC28-2 05/20/19 08:09 533
Calibration Verification of Dual Column Analytes 535
SVGC28-1 05/20/19 16:17 535
SVGC28-2 05/20/19 16:17 536
SVGC28-1 05/21/19 16:58 537
SVGC28-2 05/21/19 16:58 538
Analytical Sequence 539
SVGC28 05/20/19 08:09 539
QC Result Summary Organic Analysis Data Sheet 540
BLANK(R3413779-1) WG1283994 05/21/19 17:23 SVGC28 540
LCS(R3413779-2) WG1283994 05/21/19 17:35 SVGC28 541
MS(R3413779-3) WG1283994 05/21/19 20:17 SVGC28 542
MSD(R3413779-4) WG1283994 05/21/19 20:29 SVGC28 543
Gl: Glossary of Terms 544
Al: Accreditations & Locations 545
Sc: Sample Chain of Custody 546

WW-20190515-002-DAY 13 L1099840-01 WW

Collected by: Stephanie Healey | Collected date/time: 05/15/19 11:30 | Received date/time: 05/17/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1284142	1	05/22/19 11:46	05/22/19 11:46	BRJ	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 C-2011	WG1284161	1	05/21/19 14:53	05/21/19 15:40	MMF	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG1283783	1	05/20/19 19:26	05/20/19 19:39	MMF	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1283017	10	05/17/19 23:15	05/17/19 23:15	ELN	Mt. Juliet, TN
Wet Chemistry by Method 350.1	WG1284142	1	05/22/19 11:46	05/22/19 11:46	BRJ	Mt. Juliet, TN
Wet Chemistry by Method 351.2	WG1282996	1	05/18/19 07:43	05/20/19 16:17	SDL	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG1283935	1	05/18/19 07:43	05/20/19 17:00	SDL	Mt. Juliet, TN
Wet Chemistry by Method 410.4	WG1284199	1	05/21/19 09:17	05/21/19 12:42	MJA	Mt. Juliet, TN
Wet Chemistry by Method 4500S2 D-2011	WG1283322	1	05/18/19 13:47	05/18/19 13:47	MJA	Mt. Juliet, TN
Wet Chemistry by Method 5310 B-2011	WG1282843	1	05/17/19 14:16	05/17/19 14:16	EEM	Mt. Juliet, TN
Metals (ICPMS) by Method 200.8	WG1283250	1	05/19/19 20:42	05/21/19 22:09	LD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 624.1	WG1283043	1	05/17/19 22:01	05/17/19 22:01	BMB	Mt. Juliet, TN
EDB / DBCP by Method 504.1	WG1282811	1	05/20/19 08:52	05/21/19 07:48	KLM	Mt. Juliet, TN
SVOC-GC-GLYCOLS by Method 8015M	WG1283631	1	05/19/19 20:05	05/21/19 20:37	MTJ	Mt. Juliet, TN
Chlorinated Acid Herbicides (GC) by Method 8151	WG1283676	1.08	05/20/19 09:44	05/21/19 02:10	LEL	Mt. Juliet, TN
OP Pesticides by Method 1657M	WG1283595	1	05/20/19 07:12	05/22/19 01:59	ADF	Mt. Juliet, TN
Pesticides (GC) by Method EPA 608.3	WG1283994	1.08	05/21/19 07:42	05/21/19 17:10	LEL	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method EPA-608.3	WG1283994	1.08	05/21/19 07:42	05/21/19 18:00	RAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1282671	1.02	05/21/19 08:39	05/21/19 22:24	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1282671	1.02	05/21/19 08:39	05/22/19 20:52	AO	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 625.1	WG1282671	1.02	05/21/19 08:39	05/23/19 21:21	JNJ	Mt. Juliet, TN

WW-20190515-002-DAY 13 L1099840-02 WW

Collected by: Stephanie Healey | Collected date/time: 05/15/19 11:30 | Received date/time: 05/17/19 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 1664A	WG1285807	1	05/23/19 17:44	05/23/19 20:10	DAD	Mt. Juliet, TN
Wet Chemistry by Method 4500CN E-2011	WG1284201	1	05/22/19 08:28	05/22/19 13:42	SDL	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Su
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Craig Cothron
Project Manager

Sample Handling and Receiving

Analysis was performed from an unpreserved or improperly preserved sample.

Lab Sample ID	Project Sample ID	Method
L1099840-02	WW-20190515-002-DAY 13	1664A

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Craig Cothron
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 06/03/2019 08:21
Project Name: Deer Park Fire	Laboratory Job Number: L1099840-01 and 02
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1283043, WG1283017, WG1283322, WG1282843, WG1282996, WG1283935, WG1283676, WG1284199, WG1283631, WG1283783, WG1282811, WG1283250, WG1282671, WG1283994, WG1284142, WG1283595, WG1284201, WG1284161 and WG1285807

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?		X			1
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?		X			2
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			3
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			4
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			5
		Were MS/MSD RPDs within laboratory QC limits?		X			6
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			7
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 06/03/2019 08:21
Project Name: Deer Park Fire	Laboratory Job Number: L1099840-01 and 02
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1283043, WG1283017, WG1283322, WG1282843, WG1282996, WG1283935, WG1283676, WG1284199, WG1283631, WG1283783, WG1282811, WG1283250, WG1282671, WG1283994, WG1284142, WG1283595, WG1284201, WG1284161 and WG1285807

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?	X				
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
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3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 06/03/2019 08:21
Project Name: Deer Park Fire	Laboratory Job Number: L1099840-01 and 02
Reviewer Name: Craig Cothron	Prep Batch Number(s): WG1283043, WG1283017, WG1283322, WG1282843, WG1282996, WG1283935, WG1283676, WG1284199, WG1283631, WG1283783, WG1282811, WG1283250, WG1282671, WG1283994, WG1284142, WG1283595, WG1284201, WG1284161 and WG1285807

ER #[1]	Description
1	1664A WG1285807 L1099840-02: Analysis was performed from an unpreserved or improperly preserved sample.
2	WG1282671 R3413503-3 and 4: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). WG1284142 R3413651-4 and 5: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). WG1282996 R3412989-3 and 4: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL). WG1283935 R3413004-3 and 4: The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
3	WG1282671 Phenol-d5 R3413503-4: Percent Recovery is outside of established control limits. 624.1 WG1283043 1,2-Dichloroethane-d4 L1099840-01: Percent Recovery is outside of established control limits.
4	625.1 WG1282671 Hexachlorophene: Percent Recovery is outside of established control limits. 624.1 WG1283043 2,2-Dichloropropane: Percent Recovery is outside of established control limits.
5	625.1 WG1282671 Aniline, Benzyl Alcohol, Atrazine, Benzidine, Caprolactam, 3,3-Dichlorobenzidine, 3-Nitroaniline, 4-Nitroaniline, Benzoic Acid, 4-Chloro-3-methylphenol, 3&4-Methyl Phenol, n-Decane, n-Octadecane: Percent Recovery is outside of established control limits. 200.8 WG1283250 Zinc: Percent Recovery is outside of established control limits. 350.1 WG1283322 Sulfide: Percent Recovery is outside of established control limits. 350.1 WG1284142 Ammonia Nitrogen: Percent Recovery is outside of established control limits. 351.2 WG1282996 Kjeldahl Nitrogen, TKN: Percent Recovery is outside of established control limits. 351.2 WG1284201 Cyanide: Percent Recovery is outside of established control limits.
6	625.1 WG1282671 Caprolactam, Pyridine, 3-Nitroaniline, 4-Chloro-3-methylphenol: Relative Percent Difference is outside of established control limits. 200.8 WG1283250 Zinc: Relative Percent Difference is outside of established control limits. 351.2 WG1284201 Cyanide: Relative Percent Difference is outside of established control limits.
7	351.2 WG1282996 Kjeldahl Nitrogen, TKN: Relative Percent Difference is outside of established control limits. 351.2 WG1284201 Cyanide: Relative Percent Difference is outside of established control limits. 2540 C-2011 WG1283783 Suspended Solids: Relative Percent Difference is outside of established control limits.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

1657M OP Pesticides

2A-OR

SURROGATE RECOVERY

Analytical Method: 1657M **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
WW-20190515-002 -DAY 13	L1099840-01	SVGC12	0521A_21	89.8	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Triphenyl Phosphate	42.0 - 129

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

2A-OR

SURROGATE RECOVERY

Analytical Method: 1657M **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
MS	R3415288-1	SVGC12	0524_24	90.8	0
MSD	R3415288-2	SVGC12	0524_25	88.0	0
BLANK	R3413718-1	SVGC12	0521A_13	98.4	0
LCS	R3413718-2	SVGC12	0521A_17	98.6	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Triphenyl Phosphate	42.0 - 129

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3415288-1
R3415288-2

MS Sample / File ID:	R3415288-1 / 0524_24	**SDG:**	L1099840
MSD Sample / File ID:	R3415288-2 / 0524_25	**Analytical Batch:**	WG1283595
OS Sample / File ID:	L1100493-02 / 0524_23	**Matrix:**	WW
Instrument ID:	SVGC12		
Analytical Method:	1657M		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Azinphos-Methyl	0.00500	U	0.00456	0.00453	91.2	90.6	1	29.0 - 157	0.660	20
Chlorpyrifos	0.00500	U	0.00444	0.00430	88.8	86.0	1	42.0 - 131	3.20	20
Demeton,-O and -S	0.00250	U	0.00213	0.00190	85.2	76.0	1	30.0 - 152	11.4	20
Diazinon	0.00500	U	0.00506	0.00474	101	94.8	1	47.0 - 134	6.53	20
Malathion	0.00500	U	0.00423	0.00418	84.6	83.6	1	39.0 - 126	1.19	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1099840-01

SAMPLE NO.:
R3413718-2

LCS Sample / File ID:	R3413718-2 / 0521A_17	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1283595
Instrument ID:	SVGC12	**Dilution Factor:**	1
Analytical Method:	1657M	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Azinphos-Methyl	0.00500	0.00474		94.8		43.0 - 142		
Chlorpyrifos	0.00500	0.00475		95.0		50.0 - 126		
Demeton,-O and -S	0.00250	0.00174		69.6		22.0 - 150		
Diazinon	0.00500	0.00511		102		54.0 - 130		
Malathion	0.00500	0.00452		90.4		47.0 - 121		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3413718-1

Lab Sample ID:	R3413718-1	**SDG:**	L1099840
Lab File ID:	0521A_13	**Preparation Date/Time:**	05/20/19 07:11
Instrument ID:	SVGC12	**Analysis Date/Time:**	05/21/19 21:45
Analytical Batch:	WG1283595	**Dilution Factor:**	1
Analytical Method:	1657M	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3413718-2	SVGC12	0521A_17	05/21/19 23:52
WW-20190515-002-DAY 13	L1099840-01	SVGC12	0521A_21	05/22/19 01:59
OS	L1100493-02	SVGC12	0524_23	05/25/19 01:59
MS	R3415288-1	SVGC12	0524_24	05/25/19 02:30
MSD	R3415288-2	SVGC12	0524_25	05/25/19 03:02

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	1657M
Instrument ID:	SVGC12	**Calibration Start Date:**	05/21/19 15:58
Std File:	AVG	**Calibration End Date:**	05/21/19 19:39
		Std Analysis Date:	AVG

Sample ID	File ID	TBP	
		Response	*RT*
STANDARD		1592001250	15.11
UPPER LIMIT		33936820	
LOWER LIMIT		11312280	
BLANK R3413718-1 WG1283595 1x	0521A_13	1134305000	15.10
LCS R3413718-2 WG1283595 1x	0521A_17	1186536000	15.10
L1099840-01 WG1283595 1x	0521A_21	1433012000	15.10
OS L1100493-02 WG1283595 1x	0524_23	1716724000	15.39
MS R3415288-1 WG1283595 1x	0524_24	1715819000	15.39
MSD R3415288-2 WG1283595 1x	0524_25	1693907000	15.39

TBP - TRIBUTYL PHOSPHATE

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0521A_21	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/20/19 07:12
Analytical Batch:	WG1283595	**Analysis Date/Time:**	05/22/19 01:59
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
Azinphos-Methyl	86-50-0	0	U		0.000140	0.00100	0.00100
Chlorpyrifos	2921-88-2	0	U		0.000133	0.00100	0.00100
Diazinon	333-41-5	0	U		0.000377	0.00100	0.00100
Demeton,-O and -S	8065-48-3	0	U		0.0000680	0.00200	0.00200
Malathion	121-75-5	0	U		0.000116	0.00100	0.00100

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 15:58
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/21/19 19:39
Analytical Method:	1657M		

Analyte	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**	**CS: 2000**	**CS: 5000**	**CS: 10000**	**CS: 20000**
DIAZINON	15.81	15.81	15.81	15.81	15.81	15.81	15.82	15.82
DEMETON,-O AND -S	16.70	16.70	16.70	16.70	16.70	16.70	16.70	16.70
CHLORPYRIFOS	20.13	20.14	20.13	20.14	20.13	20.14	20.14	20.15
MALATHION	22.06	22.07	22.07	22.07	22.07	22.07	22.08	22.08
AZINPHOS-METHYL	26.98	26.98	26.98	26.98	26.98	26.98	26.98	26.98
TRIPHENYL PHOSPHATE	26.12	26.12	26.12	26.12	26.12	26.12	26.12	26.12
File ID:	0521A_02	0521A_03	0521A_04	0521A_05	0521A_06	0521A_07	0521A_08	0521A_09

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 15:58
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/21/19 19:39
Analytical Method:	1657M		

Analyte	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**	**CS: 2000**	**CS: 5000**	**CS: 10000**	**CS: 20000**
DIAZINON	18.10	18.10	18.11	18.11	18.11	18.12	18.12	18.13
DEMETON,-O AND -S	16.77	16.79	16.79	16.78	16.79	16.79	16.79	16.80
CHLORPYRIFOS	22.59	22.60	22.60	22.60	22.60	22.61	22.61	22.62
MALATHION	22.43	22.45	22.45	22.46	22.45	22.46	22.47	22.48
AZINPHOS-METHYL	27.41	27.41	27.41	27.41	27.41	27.41	27.41	27.41
TRIPHENYL PHOSPHATE	26.70	26.70	26.70	26.70	26.70	26.70	26.70	26.70
File ID:	0521A_02	0521A_03	0521A_04	0521A_05	0521A_06	0521A_07	0521A_08	0521A_09

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/24/19 14:55
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/24/19 18:36
Analytical Method:	1657M		

Analyte	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**	**CS: 2000**	**CS: 5000**	**CS: 10000**	**CS: 20000**
DIAZINON	16.10	16.09	16.10	16.09	16.10	16.10	16.11	16.12
DEMETON,-O AND -S	17	16.99	16.99	16.98	16.99	17	17	17
CHLORPYRIFOS	20.44	20.44	20.44	20.43	20.44	20.44	20.45	20.45
MALATHION	22.36	22.36	22.36	22.35	22.36	22.36	22.37	22.38
AZINPHOS-METHYL	27.01	27.01	27.01	27	27	27	27.01	27.01
TRIPHENYL PHOSPHATE	26.16	26.16	26.16	26.15	26.15	26.16	26.16	26.16
File ID:	0524_02	0524_03	0524_04	0524_05	0524_06	0524_07	0524_08	0524_09

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/24/19 14:55
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/24/19 18:36
Analytical Method:	1657M		

Analyte	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**	**CS: 2000**	**CS: 5000**	**CS: 10000**	**CS: 20000**
DIAZINON	18.41	18.40	18.41	18.40	18.41	18.41	18.42	18.43
DEMETON,-O AND -S	17.09	17.08	17.08	17.07	17.08	17.09	17.09	17.10
CHLORPYRIFOS	22.91	22.90	22.90	22.89	22.90	22.91	22.91	22.93
MALATHION	22.72	22.74	22.75	22.74	22.75	22.75	22.76	22.78
AZINPHOS-METHYL	27.43	27.43	27.43	27.42	27.42	27.42	27.43	27.43
TRIPHENYL PHOSPHATE	26.72	26.72	26.72	26.72	26.72	26.72	26.73	26.73
File ID:	0524_02	0524_03	0524_04	0524_05	0524_06	0524_07	0524_08	0524_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 15:58
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/21/19 19:39
Analytical Method:	1657M		

Analyte	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**
DIAZINON	0.7450	0.8730	0.8070	1.0460	0.8260	0.7640	0.6580	0.5690
DEMETON,-O AND -S	1.2830	1.4860	1.4060	1.7810	1.4490	1.4310	1.3140	1.1640
CHLORPYRIFOS	0.6720	0.88	0.77	0.9740	0.7750	0.7270	0.5970	0.5450
MALATHION	0.5680	0.6370	0.6310	0.7750	0.6420	0.6470	0.5680	0.5170
AZINPHOS-METHYL	0.4170	0.5540	0.5350	0.7210	0.5730	0.5370	0.4490	0.3890
TRIPHENYL PHOSPHATE	0.7220	0.8120	0.7130	0.8960	0.7130	0.6590	0.5430	0.4830
File ID:	0521A_02	0521A_03	0521A_04	0521A_05	0521A_06	0521A_07	0521A_08	0521A_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 15:58
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/21/19 19:39
Analytical Method:	1657M		

Analyte	RRF. Avg	%RSD	COD
DIAZINON	0.786163	18.17	
DEMETON,-O AND -S	1.414357	12.85	
CHLORPYRIFOS	0.74234	19.02	
MALATHION	0.623224	12.36	
AZINPHOS-METHYL	0.521896	20.15	
TRIPHENYL PHOSPHATE	0.692722	19.25	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 15:58
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/21/19 19:39
Analytical Method:	1657M		

Analyte	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**
DIAZINON	0.8760	0.9990	0.9380	1.1080	0.8580	0.8310	0.8630	0.8460
DEMETON,-O AND -S	1.4380	1.3890	1.55	1.9030	1.4430	1.41	1.5090	1.3510
CHLORPYRIFOS	0.9960	0.9980	0.8640	1.0270	0.7950	0.8060	0.8270	0.7970
MALATHION	0.83	0.7940	0.7510	0.9110	0.6770	0.6970	0.7180	0.6890
AZINPHOS-METHYL	0.7540	1.1280	0.9750	1.27	1.0070	0.9810	1.05	0.9480
TRIPHENYL PHOSPHATE	1.4390	1.5220	1.3530	1.7150	1.3490	1.3570	1.3840	1.3050
File ID:	0521A_02	0521A_03	0521A_04	0521A_05	0521A_06	0521A_07	0521A_08	0521A_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 15:58
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/21/19 19:39
Analytical Method:	1657M		

Analyte	RRF. Avg	%RSD	COD
DIAZINON	0.914809	10.46	
DEMETON,-O AND -S	1.499266	11.68	
CHLORPYRIFOS	0.888721	11.33	
MALATHION	0.758395	10.77	
AZINPHOS-METHYL	1.014071	14.65	
TRIPHENYL PHOSPHATE	1.427889	9.38	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/24/19 14:55
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/24/19 18:36
Analytical Method:	1657M		

Analyte	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**
DIAZINON	0.9980	0.8270	0.7550	0.8720	0.7930	0.7260	0.6740	0.6250
DEMETON,-O AND -S	1.4870	1.1980	1.2060	1.4310	1.3330	1.2350	1.3120	1.3110
CHLORPYRIFOS	0.9860	0.7760	0.7130	0.8310	0.7360	0.7010	0.6560	0.5840
MALATHION	0.7420	0.5990	0.5480	0.69	0.6650	0.6420	0.64	0.5750
AZINPHOS-METHYL	0.4510	0.4030	0.4340	0.5510	0.5330	0.5130	0.4850	0.4070
TRIPHENYL PHOSPHATE	0.8360	0.6860	0.6130	0.7460	0.6830	0.6490	0.6010	0.5320
File ID:	0524_02	0524_03	0524_04	0524_05	0524_06	0524_07	0524_08	0524_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/24/19 14:55
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/24/19 18:36
Analytical Method:	1657M		

Analyte	RRF. Avg	%RSD	COD
DIAZINON	0.783828	15.03	
DEMETON,-O AND -S	1.314122	7.91	
CHLORPYRIFOS	0.747876	16.22	
MALATHION	0.637613	9.87	
AZINPHOS-METHYL	0.472235	12.04	
TRIPHENYL PHOSPHATE	0.668184	13.98	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/24/19 14:55
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/24/19 18:36
Analytical Method:	1657M		

Analyte	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**
DIAZINON	1.18	0.8830	0.8180	0.9840	0.8620	0.7940	0.8460	0.8460
DEMETON,-O AND -S	2.3750	1.5240	1.2020	1.3020	1.2970	1.3430	1.3340	1.3910
CHLORPYRIFOS	1.3490	0.9450	0.7590	0.8720	0.79	0.7720	0.8020	0.8230
MALATHION	0.94	0.6760	0.6120	0.7790	0.6790	0.6690	0.7030	0.7420
AZINPHOS-METHYL	1.2170	0.9020	0.7940	1.0870	1.0270	0.9810	0.9940	1.04
TRIPHENYL PHOSPHATE	1.7320	1.3690	1.2010	1.4690	1.3170	1.29	1.32	1.3740
File ID:	0524_02	0524_03	0524_04	0524_05	0524_06	0524_07	0524_08	0524_09

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/24/19 14:55
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/24/19 18:36
Analytical Method:	1657M		

Analyte	RRF. Avg	%RSD	COD
DIAZINON	0.901582	13.98	
DEMETON,-O AND -S	1.470828	25.6	0.998
CHLORPYRIFOS	0.889119	21.99	0.999
MALATHION	0.725114	13.83	
AZINPHOS-METHYL	1.005289	12.43	
TRIPHENYL PHOSPHATE	1.384118	11.57	

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 15:58
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/21/19 19:39
Lab File ID:	0521A_11-1	**Analysis date/time:**	05/21/19 20:42
Analytical Method:	1657M	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	2.194	110	70 - 130
CHLORPYRIFOS	2	2.134	107	70 - 130
DEMETON,-O AND -S	1	1.113	111	70 - 130
DIAZINON	2	2.156	108	70 - 130
MALATHION	2	2.084	104	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 15:58
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/21/19 19:39
Lab File ID:	0521A_11-1	**Analysis date/time:**	05/21/19 20:42
Analytical Method:	1657M	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	1.983	99.20	70 - 130
CHLORPYRIFOS	2	2.042	102	70 - 130
DEMETON,-O AND -S	1	1.090	109	70 - 130
DIAZINON	2	2.002	100	70 - 130
MALATHION	2	1.977	98.80	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/24/19 14:55
Instrument ID:	SVGC12 - 1	**Calibration (end) date/time:**	05/24/19 18:36
Lab File ID:	0524_11-1	**Analysis date/time:**	05/24/19 19:39
Analytical Method:	1657M	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	2.385	119	70 - 130
CHLORPYRIFOS	2	2.056	103	70 - 130
DEMETON,-O AND -S	1	1.120	112	70 - 130
DIAZINON	2	2.016	101	70 - 130
MALATHION	2	2.144	107	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/24/19 14:55
Instrument ID:	SVGC12 - 2	**Calibration (end) date/time:**	05/24/19 18:36
Lab File ID:	0524_11-1	**Analysis date/time:**	05/24/19 19:39
Analytical Method:	1657M	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
AZINPHOS-METHYL	2	1.968	98.40	70 - 130
CHLORPYRIFOS	2	2.106	105	70 - 130
DEMETON,-O AND -S	1	1.089	109	70 - 130
DIAZINON	2	1.952	97.60	70 - 130
MALATHION	2	2.018	101	70 - 130

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1099840	**Analytical Method:**	1657M
Instrument ID:	SVGC12	**Calibration Start Date:**	05/21/19 15:58
		Calibration End Date:	05/21/19 19:39

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	100	0521A_02	05/21/19 15:58	1	
CAL	200	0521A_03	05/21/19 16:29	1	
CAL	500	0521A_04	05/21/19 17:01	1	
CAL	1000	0521A_05	05/21/19 17:33	1	
CAL	2000	0521A_06	05/21/19 18:04	1	
CAL	5000	0521A_07	05/21/19 18:36	1	
CAL	10000	0521A_08	05/21/19 19:07	1	
CAL	20000	0521A_09	05/21/19 19:39	1	
SSCV	SVGC12052119A0521A_11-1472403	0521A_11-1	05/21/19 20:42	1	
BLANK	R3413718-1	0521A_13	05/21/19 21:45	1	WG1283595
LCS	R3413718-2	0521A_17	05/21/19 23:52	1	WG1283595
WW-20190515-002-DAY 13	L1099840-01	0521A_21	05/22/19 01:59	1	WG1283595

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1099840	**Analytical Method:**	1657M
Instrument ID:	SVGC12	**Calibration Start Date:**	05/24/19 14:55
		Calibration End Date:	05/24/19 18:36

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	100	0524_02	05/24/19 14:55	1	
CAL	200	0524_03	05/24/19 15:26	1	
CAL	500	0524_04	05/24/19 15:58	1	
CAL	1000	0524_05	05/24/19 16:30	1	
CAL	2000	0524_06	05/24/19 17:01	1	
CAL	5000	0524_07	05/24/19 17:33	1	
CAL	10000	0524_08	05/24/19 18:04	1	
CAL	20000	0524_09	05/24/19 18:36	1	
SSCV	SVGC120524190524_11-1472713	0524_11-1	05/24/19 19:39	1	
OS	L1100493-02	0524_23	05/25/19 01:59	1	WG1283595
MS	R3415288-1	0524_24	05/25/19 02:30	1	WG1283595
MSD	R3415288-2	0524_25	05/25/19 03:02	1	WG1283595

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3413718-1

Lab Sample ID:	R3413718-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0521A_13	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/20/19 07:11
Analytical Batch:	WG1283595	**Analysis Date/Time:**	05/21/19 21:45
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Azinphos-Methyl	1	0	U	0
Chlorpyrifos	1	0	U	0
Demeton,-O and -S	1	0	U	0
Diazinon	1	0	U	0
Malathion	1	0	U	0

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3413718-2

Lab Sample ID:	R3413718-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0521A_17	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/20/19 07:11
Analytical Batch:	WG1283595	**Analysis Date/Time:**	05/21/19 23:52
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Azinphos-Methyl	1	26.98	0.00474	1.22
Chlorpyrifos	1	20.14	0.00475	.634
Demeton,-O and -S	1	16.70	0.00174	2.56
Diazinon	1	15.81	0.00511	8.61
Malathion	1	22.07	0.00452	6.83

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3415288-1

Lab Sample ID:	R3415288-1	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 15:11
Lab File ID:	0524_24	**Received Date/Time:**	05/18/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/20/19 07:12
Analytical Batch:	WG1283595	**Analysis Date/Time:**	05/25/19 02:30
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Azinphos-Methyl	1	27.01	0.00456	8.49
	2	27.43	0.00419	
Chlorpyrifos	1	20.44	0.00444	8.63
	2	22.90	0.00407	
Demeton,-O and -S	1	16.99	0.00213	14.6
	2	17.09	0.00184	
Diazinon	1	16.10	0.00506	77.1
	2	18.42	0.00224	
Malathion	1	22.36	0.00423	8.32
	2	22.74	0.00460	

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3415288-2

Lab Sample ID:	R3415288-2	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/15/19 15:11
Lab File ID:	0524_25	**Received Date/Time:**	05/18/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/20/19 07:12
Analytical Batch:	WG1283595	**Analysis Date/Time:**	05/25/19 03:02
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Azinphos-Methyl	1	27.01	0.00453	11.1
	2	27.43	0.00405	
Chlorpyrifos	1	20.44	0.00430	1.78
	2	22.91	0.00422	
Demeton,-O and -S	1	17	0.00190	81.7
	2	17.09	0.000799	
Diazinon	1	16.10	0.00474	15.9
	2	18.42	0.00405	
Malathion	1	22.37	0.00418	.74
	2	22.75	0.00421	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413718-1

Lab Sample ID:	R3413718-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0521A_13	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/20/19 07:11
Analytical Batch:	WG1283595	**Analysis Date/Time:**	05/21/19 21:45
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
Azinphos-Methyl	86-50-0	0	U		0.000140	0.0010	0.00100
Chlorpyrifos	2921-88-2	0	U		0.000133	0.0010	0.00100
Demeton,-O and -S	8065-48-3	0	U		0.0000680	0.0020	0.00200
Diazinon	333-41-5	0	U		0.000377	0.0010	0.00100
Malathion	121-75-5	0	U		0.000116	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413718-2

Lab Sample ID:	R3413718-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0521A_17	**Received Date/Time:**	_____
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/20/19 07:11
Analytical Batch:	WG1283595	**Analysis Date/Time:**	05/21/19 23:52
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Azinphos-Methyl	86-50-0	26.98	0.00474		0.000140	0.0010	0.00100
Chlorpyrifos	2921-88-2	20.14	0.00475		0.000133	0.0010	0.00100
Demeton,-O and -S	8065-48-3	16.70	0.00174		0.0000680	0.0020	0.00200
Diazinon	333-41-5	15.81	0.00511		0.000377	0.0010	0.00100
Malathion	121-75-5	22.07	0.00452		0.000116	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3415288-1

Lab Sample ID:	R3415288-1	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 15:11
Lab File ID:	0524_24	**Received Date/Time:**	05/18/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/20/19 07:12
Analytical Batch:	WG1283595	**Analysis Date/Time:**	05/25/19 02:30
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Azinphos-Methyl	86-50-0	27.01	0.00456		0.000140	0.0010	0.00100
Chlorpyrifos	2921-88-2	20.44	0.00444		0.000133	0.0010	0.00100
Demeton,-O and -S	8065-48-3	16.99	0.00213		0.0000680	0.0020	0.00200
Diazinon	333-41-5	16.10	0.00506		0.000377	0.0010	0.00100
Malathion	121-75-5	22.36	0.00423		0.000116	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3415288-2

Lab Sample ID:	R3415288-2	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/15/19 15:11
Lab File ID:	0524_25	**Received Date/Time:**	05/18/19 08:45
Instrument ID:	SVGC12	**Preparation Date/Time:**	05/20/19 07:12
Analytical Batch:	WG1283595	**Analysis Date/Time:**	05/25/19 03:02
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	1657M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	1 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Azinphos-Methyl	86-50-0	27.01	0.00453		0.000140	0.0010	0.00100
Chlorpyrifos	2921-88-2	20.44	0.00430		0.000133	0.0010	0.00100
Demeton,-O and -S	8065-48-3	17	0.00190		0.0000680	0.0020	0.00200
Diazinon	333-41-5	16.10	0.00474		0.000377	0.0010	0.00100
Malathion	121-75-5	22.37	0.00418		0.000116	0.0010	0.00100

1664A Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-02	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	15	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/23/19 17:44
Analytical Batch:	WG1285807	**Analysis Date/Time:**	05/23/19 20:10
Dilution Factor:	1	**Prep Method:**	1664A
Analytical Method:	1664A	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	930 ml
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Oil & Grease (Hexane Extr)		U		1.25	5.38	5.38

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3414408-1

Lab Sample ID:	R3414408-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/23/19 16:44
Analytical Batch:	WG1285807	**Analysis Date/Time:**	05/23/19 20:10
Dilution Factor:	1	**Prep Method:**	1664A
Analytical Method:	1664A	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	1000 ml
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Oil & Grease (Hexane Extr)		U		1.16	5	5.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3414408-2

Lab Sample ID:	R3414408-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	04	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/23/19 16:44
Analytical Batch:	WG1285807	**Analysis Date/Time:**	05/23/19 20:10
Dilution Factor:	1	**Prep Method:**	1664A
Analytical Method:	1664A	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	1000 ml
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Oil & Grease (Hexane Extr)		36.2		1.16	5	5.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3414408-3

Lab Sample ID:	R3414408-3	**SDG:**	L1099840
Client Sample ID:	LCSD	**Collected Date/Time:**	
Lab File ID:	05	**Received Date/Time:**	
Instrument ID:	OGBAL1	**Preparation Date/Time:**	05/23/19 16:44
Analytical Batch:	WG1285807	**Analysis Date/Time:**	05/23/19 20:10
Dilution Factor:	1	**Prep Method:**	1664A
Analytical Method:	1664A	**Sample Vol Used:**	
Matrix:	WW	**Initial Wt/Vol:**	1000 ml
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Oil & Grease (Hexane Extr)		38.2		1.16	5	5.00

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	_____
Instrument ID:	OGBAL1	**Calibration (end) date/time:**	_____
Analytical Method:	1664A	**Analytical Run:**	WG1285807

Sample ID:	**BLANK Result**	**BLANK Qual**
File ID:	01	
Analyte	mg/l	
OIL & GREASE (HEXANE EXTR)	U	

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-02

SAMPLE NO.:
R3414408-2
R3414408-3

LCS Sample / File ID:	R3414408-2 / 04	**SDG:**	L1099840
LCSD Sample / File ID:	R3414408-3 / 05	**Analytical Batch:**	WG1285807
Instrument ID:	OGBAL1	**Dilution Factor:**	1
Analytical Method:	1664A	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Oil & Grease (Hexane Extr)	40.0	36.2	38.2	90.5	95.5	78.0 - 114	5.38	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	1664A
Instrument ID:	OGBAL1	**Calibration Start Date:**	_____
Analytical Run:	WG1285807	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R3414408-1	01	05/23/19 20:10	1	WG1285807
LCS	R3414408-2	04	05/23/19 20:10	1	WG1285807
LCSD	R3414408-3	05	05/23/19 20:10	1	WG1285807
WW-20190515-002-DAY 13	L1099840-02	15	05/23/19 20:10	1	WG1285807

200.8 Metals (ICPMS)

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190521220907	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/19/19 20:42
Analytical Batch:	WG1283250	**Analysis Date/Time:**	05/21/19 22:09
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.00110	J	0.000754	0.00200	0.00200
Arsenic	7440-38-2	0.00125		0.000170	0.00100	0.00100
Cadmium	7440-43-9	0.000227	J	0.000220	0.00100	0.00100
Chromium	7440-47-3	0.000432	J	0.000320	0.00100	0.00100
Cobalt	7440-48-4	0.00137	J	0.000270	0.00200	0.00200
Copper	7440-50-8	0.00152		0.000270	0.00100	0.00100
Lead	7439-92-1	U		0.000260	0.00100	0.00100
Nickel	7440-02-0	0.00353		0.000320	0.00100	0.00100
Selenium	7782-49-2	0.000876	J	0.000320	0.00200	0.00200
Silver	7440-22-4	U		0.000180	0.00100	0.00100
Thallium	7440-28-0	U		0.000280	0.00100	0.00100
Tin	7440-31-5	U		0.000240	0.00100	0.00100
Zinc	7440-66-6	0.0229	B J3 J5	0.00191	0.0100	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413448-9

Lab Sample ID:	R3413448-9	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190521213705	**Received Date/Time:**	_____
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/19/19 20:41
Analytical Batch:	WG1283250	**Analysis Date/Time:**	05/21/19 21:37
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	U		0.000754	0.0020	0.00200
Arsenic	7440-38-2	U		0.000170	0.0010	0.00100
Cadmium	7440-43-9	U		0.000220	0.0010	0.00100
Chromium	7440-47-3	U		0.000320	0.0010	0.00100
Cobalt	7440-48-4	U		0.000270	0.0020	0.00200
Copper	7440-50-8	U		0.000270	0.0010	0.00100
Lead	7439-92-1	U		0.000260	0.0010	0.00100
Nickel	7440-02-0	U		0.000320	0.0010	0.00100
Selenium	7782-49-2	U		0.000320	0.0020	0.00200
Silver	7440-22-4	U		0.000180	0.0010	0.00100
Thallium	7440-28-0	U		0.000280	0.0010	0.00100
Tin	7440-31-5	U		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.00307	J	0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413448-10

Lab Sample ID:	R3413448-10	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190521214141	**Received Date/Time:**	_____
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/19/19 20:41
Analytical Batch:	WG1283250	**Analysis Date/Time:**	05/21/19 21:41
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0470		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0493		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0494		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0493		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0496		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0505		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0482		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0504		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0479		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0478		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0478		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0459		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0507		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413448-11

Lab Sample ID:	R3413448-11	**SDG:**	L1099840
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	20190521214615	**Received Date/Time:**	_____
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/19/19 20:41
Analytical Batch:	WG1283250	**Analysis Date/Time:**	05/21/19 21:46
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0490		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0496		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0503		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0498		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0502		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0513		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0491		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0507		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0501		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0492		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0480		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0479		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0521		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413448-13

Lab Sample ID:	R3413448-13	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 08:20
Lab File ID:	20190521215958	**Received Date/Time:**	05/15/19 13:25
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/19/19 20:42
Analytical Batch:	WG1283250	**Analysis Date/Time:**	05/21/19 21:59
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0496		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0496		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0511		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0499		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0497		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0555		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0503		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0498		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0490		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0489		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0497		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0486		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0677		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413448-17

Lab Sample ID:	R3413448-17	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190521225213	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/19/19 20:42
Analytical Batch:	WG1283250	**Analysis Date/Time:**	05/21/19 22:52
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0520		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0521		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0514		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0493		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0514		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0515		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0488		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0528		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0524		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0485		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0476		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0504		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0774		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413448-14

Lab Sample ID:	R3413448-14	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/15/19 08:20
Lab File ID:	20190521220432	**Received Date/Time:**	05/15/19 13:25
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/19/19 20:42
Analytical Batch:	WG1283250	**Analysis Date/Time:**	05/21/19 22:04
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0486		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0494		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0496		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0493		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0493		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0556		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0485		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0497		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0493		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0482		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0481		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0481		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.0677		0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413448-18

Lab Sample ID:	R3413448-18	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190521225648	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/19/19 20:42
Analytical Batch:	WG1283250	**Analysis Date/Time:**	05/21/19 22:56
Dilution Factor:	1	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	0.0494		0.000754	0.0020	0.00200
Arsenic	7440-38-2	0.0505		0.000170	0.0010	0.00100
Cadmium	7440-43-9	0.0502		0.000220	0.0010	0.00100
Chromium	7440-47-3	0.0478		0.000320	0.0010	0.00100
Cobalt	7440-48-4	0.0496		0.000270	0.0020	0.00200
Copper	7440-50-8	0.0500		0.000270	0.0010	0.00100
Lead	7439-92-1	0.0479		0.000260	0.0010	0.00100
Nickel	7440-02-0	0.0507		0.000320	0.0010	0.00100
Selenium	7782-49-2	0.0494		0.000320	0.0020	0.00200
Silver	7440-22-4	0.0470		0.000180	0.0010	0.00100
Thallium	7440-28-0	0.0467		0.000280	0.0010	0.00100
Tin	7440-31-5	0.0481		0.000240	0.0010	0.00100
Zinc	7440-66-6	0.101	J3 J5	0.00191	0.01	0.0100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413448-12

Lab Sample ID:	R3413448-12	**SDG:**	L1099840
Client Sample ID:	SD	**Collected Date/Time:**	05/15/19 08:20
Lab File ID:	20190521215524	**Received Date/Time:**	05/15/19 13:25
Instrument ID:	ICPMS9	**Preparation Date/Time:**	05/19/19 20:42
Analytical Batch:	WG1283250	**Analysis Date/Time:**	05/21/19 21:55
Dilution Factor:	5	**Prep Method:**	200.8
Analytical Method:	200.8	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	25 mL
Total Solids (%):	_____	**Final Wt/Vol:**	25 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Antimony	7440-36-0	ND		0.00377	0.0020	0.0100
Arsenic	7440-38-2	ND		0.000850	0.0010	0.00500
Cadmium	7440-43-9	ND		0.00110	0.0010	0.00500
Chromium	7440-47-3	ND		0.00160	0.0010	0.00500
Cobalt	7440-48-4	ND		0.00135	0.0020	0.0100
Copper	7440-50-8	0.00547		0.00135	0.0010	0.00500
Lead	7439-92-1	ND		0.00130	0.0010	0.00500
Nickel	7440-02-0	ND		0.00160	0.0010	0.00500
Selenium	7782-49-2	ND		0.00160	0.0020	0.0100
Silver	7440-22-4	ND		0.000900	0.0010	0.00500
Thallium	7440-28-0	ND		0.00140	0.0010	0.00500
Tin	7440-31-5	ND		0.00120	0.0010	0.00500
Zinc	7440-66-6	0.0205		0.00955	0.01	0.0500

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A
Concentration Units:	mg/l		

	ICV				**CCV**				**ICVLL**			
Sample ID:	ICPMS90521192023				ICPMS90521192056				ICPMS90521192113			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ANTIMONY	0.10	0.1011877	101	0.960000	0.10	0.09889054	98.90	1.070000	0.0010	0.001255262	126	2.840000
ARSENIC	0.10	0.09923462	99.20	0.960000	0.10	0.09803761	98	1.530000	0.0010	0.000945653	94.60	3.620000
CADMIUM	0.10	0.09807193	98.10	0.600000	0.10	0.0971913	97.20	0.830000	0.0010	0.001058464	106	4.120000
CHROMIUM	0.10	0.1008163	101	0.770000	0.10	0.09719148	97.20	1.990000	0.0010	0.000936399	93.60	4.840000
COBALT	0.10	0.101008	101	1.240000	0.10	0.09672774	96.70	2.110000	0.0010	0.000983145	98.30	2.040000
COPPER	0.10	0.09917795	99.20	1.320000	0.10	0.0998242	99.80	1.220000	0.0010	0.001085192	109	3.370000
LEAD	0.10	0.09852594	98.50	1.640000	0.10	0.09770871	97.70	0.550000	0.0010	0.000963647	96.40	1.500000
NICKEL	0.10	0.100768	101	1.310000	0.10	0.09840443	98.40	2.040000	0.0010	0.001039247	104	6.390000
SELENIUM	0.10	0.09995368	100	2.140000	0.10	0.09866154	98.70	1.080000	0.0010	0.000845415	84.50	5.020000
SILVER	0.10	0.1006851	101	0.860000	0.10	0.09926873	99.30	0.480000	0.0010	0.00097547	97.50	1.200000
THALLIUM	0.10	0.09855985	98.60	4.150000	0.10	0.09687876	96.90	1.490000	0.0010	0.000923913	92.40	1.550000
TIN	0.10	0.09778463	97.80	0.530000	0.10	0.09880783	98.80	1.480000	0.0010	0.001002882	100	3.680000
ZINC	0.10	0.1002656	100	1.670000	0.10	0.09830559	98.30	0.630000	0.01	0.01010004	101	1.060000

ICV Limits: 95 - 105 CCV Limits: 90 - 110 ICVLL Limits: 50 - 150 CCVLL Limits: 50 - 150

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A
Concentration Units:	mg/l		

	CCV				**CCV**				**CCVLL**			
Sample ID:	ICPMS90521192223				ICPMS90521192320				ICPMS90521192333			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ANTIMONY	0.10	0.09698781	97	2.740000	0.10	0.09934666	99.30	0.740000	0.0010	0.001160447	116	2.920000
ARSENIC	0.10	0.09888912	98.90	0.450000	0.10	0.09893237	98.90	0.350000	0.0010	0.000937371	93.70	2.980000
CADMIUM	0.10	0.09840665	98.40	0.500000	0.10	0.09780897	97.80	0.560000	0.0010	0.00100479	100	3.460000
CHROMIUM	0.10	0.0986848	98.70	0.580000	0.10	0.09850897	98.50	0.800000	0.0010	0.000979987	98	3.240000
COBALT	0.10	0.09906435	99.10	1.960000	0.10	0.09904204	99	0.810000	0.0010	0.000971484	97.10	3.460000
COPPER	0.10	0.1005068	101	1.370000	0.10	0.1004928	100	0.030000	0.0010	0.001159779	116	1.070000
LEAD	0.10	0.09944906	99.40	0.790000	0.10	0.0957824	95.80	3.590000	0.0010	0.000963486	96.30	3.620000
NICKEL	0.10	0.09836261	98.40	1.290000	0.10	0.09874546	98.70	1.070000	0.0010	0.000967992	96.80	4.430000
SELENIUM	0.10	0.09770849	97.70	0.810000	0.10	0.0997878	99.80	1.560000	0.0010	0.00098586	98.60	8.190000
SILVER	0.10	0.09961306	99.60	0.150000	0.10	0.09985762	99.90	0.640000	0.0010	0.00099228	99.20	2.490000
THALLIUM	0.10	0.09846607	98.50	2.050000	0.10	0.09620417	96.20	3.020000	0.0010	0.000937116	93.70	0.950000
TIN	0.10	0.09875334	98.80	1.160000	0.10	0.09783007	97.80	0.590000	0.0010	0.001018411	102	2.640000
ZINC	0.10	0.09792668	97.90	1.260000	0.10	0.09923767	99.20	1.560000	0.01	0.01060138	106	3.280000

ICV Limits: 95 - 105 CCV Limits: 90 - 110 ICVLL Limits: 50 - 150 CCVLL Limits: 50 - 150

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Sample ID:	**ICB Result**	**ICB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**
File ID:	20190521205141		20190521210839		20190521213705		20190521224649	
Analyte	mg/l		mg/l		mg/l		mg/l	
ANTIMONY	0.000276348	U	0.000370268	U	U		0.000046025	U
ARSENIC	-0.000009054	U	0.000004402	U	U		0.000010939	U
CADMIUM	0.000002896	U	0.000008015	U	U		-0.0000002130	U
CHROMIUM	0.000025233	U	0.000096186	U	U		0.000062393	U
COBALT	-0.000000007000	U	0.000006577	U	U		0.000003755	U
COPPER	0.000110683	U	0.000015694	U	U		0.000045619	U
LEAD	0.000004095	U	0.000007037	U	U		0.000019452	U
NICKEL	0.000063962	U	0.000106563	U	U		-0.000028246	U
SELENIUM	0.000013103	U	-0.000016519	U	U		0.000011778	U
SILVER	0.000001329	U	0.000005036	U	U		0.000003586	U
THALLIUM	0.000008723	U	0.000012064	U	U		0.000007525	U
TIN	0.000017462	U	0.000037219	U	U		0.000034091	U
ZINC	-0.000049076	U	-0.0000009240	U	0.00307	J	0.001000291	

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Sample ID:	**CCB Result**	**CCB Qual**
File ID:	20190521232849	
Analyte	mg/l	
ANTIMONY	0.000449706	U
ARSENIC	0.000009694	U
CADMIUM	0.000003725	U
CHROMIUM	0.00009035	U
COBALT	0.000004544	U
COPPER	0.000038133	U
LEAD	0.000017199	U
NICKEL	0.000032903	U
SELENIUM	0.000003249	U
SILVER	0.000002875	U
THALLIUM	0.000013615	U
TIN	0.000040729	U
ZINC	0.000687993	U

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1099840	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Date:**	05/21/19 21:18
Instrument Run:	052119ICPMS9A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	102.1721	102	100	99.91416	99.90
ANTIMONY	0	0.000385611		0.02	0.02267478	113
ARSENIC	0	0.000055129		0.02	0.01842125	92.10
BARIUM	0	0.000198041		0.02	0.02087742	104
BERYLLIUM	0	0.000006344		0.02	0.02033165	102
BISMUTH (NO HE)		5602265	96.10		5641609	96.80
BORON	0	0.001890731		0.02	0.02148655	107
CADMIUM	0	0.000356861		0.02	0.02091753	105
CALCIUM	100	97.57314	97.60	100	96.07535	96.10
CHROMIUM	0	0.000277916		0.02	0.01887529	94.40
COBALT	0	0.000263858		0.02	0.0191682	95.80
COPPER	0	0.001669266		0.02	0.02041721	102
GERMANIUM		9158.533	108		9011.803	106
GERMANIUM (HIGH HE)		12333.69	112		12264.97	112
GERMANIUM (NO HE)		95410.11	104		96153.64	105
IRON	100	87.96077	88	100	88.88606	88.90
LEAD	0	0.000099658		0.02	0.01917811	95.90
LITHIUM	0	0.000500303		0	0.000523626	
MAGNESIUM	100	96.02118	96	100	95.8644	95.90
MANGANESE	0	0.000480624		0.02	0.01888331	94.40
MERCURY	0	0.000401423		0	0.006472034	
MOLYBDENUM	2	2.082294	104	2	2.074833	104
NICKEL	0	0.000348847		0.02	0.01907879	95.40
POTASSIUM	100	97.00904	97	100	95.76813	95.80
RHODIUM		251804.2	96		251765.8	96
SCANDIUM		103069.8	100		103315.8	100
SCANDIUM (NO HE)		3305587	98.90		3367423	101
SELENIUM	0	0.000037793		0.02	0.02113088	106
SILVER	0	0.000008340		0.02	0.01971129	98.60
SODIUM	100	97.3118	97.30	100	95.46008	95.50
STRONTIUM	0	0.000807635		0.02	0.02094717	105
TELLURIUM		35304.88	99.70		34791.4	98.20
TELLURIUM (HIGH HE)		108746.4	99.90		109280.6	100
TELLURIUM (NO HE)		360326.1	101		361354.2	101
THALLIUM	0	0.000007339		0.02	0.01891329	94.60
THORIUM	0	0.000021405		0.02	0.01929694	96.50
TIN	0	0.000369642		0.02	0.02081556	104
TITANIUM	2	2.03165	102	2	2.030837	102
URANIUM	0	0.000001179		0.02	0.01978878	98.90
VANADIUM	0	0.000034901		0.02	0.01912811	95.60
ZINC	0	0.000703601		0.02	0.01891262	94.60

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG:	L1099840	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Date:**	05/21/19 23:38
Instrument Run:	052119ICPMS9A		

Analyte	True	Found		True	Found	
	ICSA	*ICSA*	*ICSA*	*ICSAB*	*ICSAB*	*ICSAB*
	mg/l	*mg/l*	*% Rec.*	*mg/l*	*mg/l*	*% Rec.*
ALUMINUM	100	99.20956	99.20	100	99.99987	100
ANTIMONY	0	0.000308755		0.02	0.02286478	114
ARSENIC	0	0.000044088		0.02	0.01844926	92.20
BARIUM	0	0.000197556		0.02	0.02151124	108
BERYLLIUM	0	0.000003391		0.02	0.02096931	105
BISMUTH (NO HE)		5852046	100		5919237	102
BORON	0	0.006946949		0.02	0.02671758	134
CADMIUM	0	0.000346753		0.02	0.02135938	107
CALCIUM	100	97.30165	97.30	100	96.87706	96.90
CHROMIUM	0	0.000320778		0.02	0.01891278	94.60
COBALT	0	0.000276566		0.02	0.0193718	96.90
COPPER	0	0.001762595		0.02	0.02110073	106
GERMANIUM		10086.99	119		9630.097	113
GERMANIUM (HIGH HE)		13423.15	122		13537.9	123
GERMANIUM (NO HE)		99253.46	109		99368.35	109
IRON	100	88.02645	88	100	88.48312	88.50
LEAD	0	0.000104731		0.02	0.01969102	98.50
LITHIUM	0	0.000536913		0	0.000500812	
MAGNESIUM	100	93.26069	93.30	100	95.58762	95.60
MANGANESE	0	0.000387662		0.02	0.01923711	96.20
MERCURY	0	0.00125423		0	0.005194298	
MOLYBDENUM	2	2.131934	107	2	2.167242	108
NICKEL	0	0.000643026		0.02	0.01926587	96.30
POTASSIUM	100	96.1683	96.20	100	95.32592	95.30
RHODIUM		273979	104		263627.4	101
SCANDIUM		117448.6	114		110988.7	108
SCANDIUM (NO HE)		3523125	105		3586355	107
SELENIUM	0	0.000116958		0.02	0.02121792	106
SILVER	0	0.000020326		0.02	0.0201713	101
SODIUM	100	94.29005	94.30	100	96.72838	96.70
STRONTIUM	0	0.000904852		0.02	0.02137346	107
TELLURIUM		38774.75	109		36400.74	103
TELLURIUM (HIGH HE)		116607.8	107		116727.1	107
TELLURIUM (NO HE)		383295.4	107		384124.8	107
THALLIUM	0	0.000008825		0.02	0.01923905	96.20
THORIUM	0	0.00002742		0.02	0.01928945	96.40
TIN	0	0.000365366		0.02	0.02093161	105
TITANIUM	2	2.014943	101	2	2.033508	102
URANIUM	0	0.000002208		0.02	0.0200566	100
VANADIUM	0	0.000034618		0.02	0.01882417	94.10
ZINC	0	0.001363847		0.02	0.01980632	99

ICSA Limits: 80 - 120 ICSAB Limits: 80 - 120

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413448-13
R3413448-14

MS Sample / File ID:	R3413448-13 / 20190521215958	**SDG:**	L1099840
MSD Sample / File ID:	R3413448-14 / 20190521220432	**Analytical Batch:**	WG1283250
OS Sample / File ID:	L1098954-01 / 20190521215049	**Matrix:**	WW
Instrument ID:	ICPMS9		
Analytical Method:	200.8		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Antimony	0.0500	ND	0.0496	0.0486	99.2	97.2	1	70.0 - 130	1.98	20
Arsenic	0.0500	ND	0.0496	0.0494	98.8	98.3	1	70.0 - 130	0.489	20
Cadmium	0.0500	ND	0.0511	0.0496	102	99.2	1	70.0 - 130	2.92	20
Chromium	0.0500	ND	0.0499	0.0493	98.9	97.5	1	70.0 - 130	1.32	20
Cobalt	0.0500	ND	0.0497	0.0493	99.3	98.6	1	70.0 - 130	0.730	20
Copper	0.0500	0.00486	0.0555	0.0556	101	102	1	70.0 - 130	0.123	20
Lead	0.0500	ND	0.0503	0.0485	101	97.0	1	70.0 - 130	3.59	20
Nickel	0.0500	ND	0.0498	0.0497	98.1	97.8	1	70.0 - 130	0.293	20
Selenium	0.0500	ND	0.0490	0.0493	97.3	97.9	1	70.0 - 130	0.612	20
Silver	0.0500	ND	0.0489	0.0482	97.8	96.4	1	70.0 - 130	1.46	20
Thallium	0.0500	ND	0.0497	0.0481	99.5	96.1	1	70.0 - 130	3.43	20
Tin	0.0500	ND	0.0486	0.0481	96.5	95.7	1	70.0 - 130	0.881	20
Zinc	0.0500	0.0191	0.0677	0.0677	97.1	97.2	1	70.0 - 130	0.0764	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413448-17
R3413448-18

MS Sample / File ID:	R3413448-17 / 20190521225213	**SDG:**	L1099840
MSD Sample / File ID:	R3413448-18 / 20190521225648	**Analytical Batch:**	WG1283250
OS Sample / File ID:	L1099840-01 / 20190521220907	**Matrix:**	WW
Instrument ID:	ICPMS9		
Analytical Method:	200.8		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Antimony	0.0500	0.00110	0.0520	0.0494	102	96.5	1	70.0 - 130	5.29	20
Arsenic	0.0500	0.00125	0.0521	0.0505	102	98.6	1	70.0 - 130	3.04	20
Cadmium	0.0500	0.000227	0.0514	0.0502	102	99.9	1	70.0 - 130	2.41	20
Chromium	0.0500	0.000432	0.0493	0.0478	97.7	94.7	1	70.0 - 130	3.04	20
Cobalt	0.0500	0.00137	0.0514	0.0496	100	96.6	1	70.0 - 130	3.41	20
Copper	0.0500	0.00152	0.0515	0.0500	100	96.9	1	70.0 - 130	3.11	20
Lead	0.0500	U	0.0488	0.0479	97.5	95.8	1	70.0 - 130	1.75	20
Nickel	0.0500	0.00353	0.0528	0.0507	98.5	94.4	1	70.0 - 130	3.94	20
Selenium	0.0500	0.000876	0.0524	0.0494	103	97.1	1	70.0 - 130	5.82	20
Silver	0.0500	U	0.0485	0.0470	96.9	94.0	1	70.0 - 130	3.10	20
Thallium	0.0500	U	0.0476	0.0467	95.2	93.3	1	70.0 - 130	1.96	20
Tin	0.0500	U	0.0504	0.0481	101	96.2	1	70.0 - 130	4.61	20
Zinc	0.0500	0.0229	0.0774	0.101	109	156*	1	70.0 - 130	26.5*	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3413448-10
R3413448-11

LCS Sample / File ID:	R3413448-10 / 20190521214141	**SDG:**	L1099840
LCSD Sample / File ID:	R3413448-11 / 20190521214615	**Analytical Batch:**	WG1283250
Instrument ID:	ICPMS9	**Dilution Factor:**	1
Analytical Method:	200.8	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Antimony	0.0500	0.0470	0.0490	94.1	98.0	85.0 - 115	4.11	20
Arsenic	0.0500	0.0493	0.0496	98.7	99.2	85.0 - 115	0.556	20
Cadmium	0.0500	0.0494	0.0503	98.7	101	85.0 - 115	1.87	20
Chromium	0.0500	0.0493	0.0498	98.6	99.6	85.0 - 115	0.934	20
Cobalt	0.0500	0.0496	0.0502	99.2	100	85.0 - 115	1.16	20
Copper	0.0500	0.0505	0.0513	101	103	85.0 - 115	1.47	20
Lead	0.0500	0.0482	0.0491	96.4	98.3	85.0 - 115	1.90	20
Nickel	0.0500	0.0504	0.0507	101	101	85.0 - 115	0.605	20
Selenium	0.0500	0.0479	0.0501	95.8	100	85.0 - 115	4.46	20
Silver	0.0500	0.0478	0.0492	95.7	98.4	85.0 - 115	2.83	20
Thallium	0.0500	0.0478	0.0480	95.6	96.0	85.0 - 115	0.428	20
Tin	0.0500	0.0459	0.0479	91.7	95.9	85.0 - 115	4.41	20
Zinc	0.0500	0.0507	0.0521	101	104	85.0 - 115	2.60	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8-IN

ICP AND ICP/MS SERIAL DILUTIONS

L1099840-01

SAMPLE NO.:
R3413448-12

SD Sample / File ID:	R3413448-12 / 20190521215524	**SDG:**	L1099840
OS Sample / File ID:	L1098954-01 / 20190521215049	**Analytical Batch:**	WG1283250
Lab File ID:	20190521215524	**Dilution Factor:**	5
Instrument ID:	ICPMS9	**Matrix:**	WW
Analytical Method:	200.8		

Analyte	**OS Result** *mg/l*	**SD Result** *mg/l*	**RPD** *%*	**RPD Limits** *%*
Antimony	ND	ND	0.000	10
Arsenic	ND	ND	0.000	10
Cadmium	ND	ND	0.000	10
Chromium	ND	ND	0.000	10
Cobalt	ND	ND	0.000	10
Copper	0.00486	0.00547	12.5	10
Lead	ND	ND	0.000	10
Nickel	ND	ND	0.000	10
Selenium	ND	ND	0.000	10
Silver	ND	ND	0.000	10
Thallium	ND	ND	0.000	10
Tin	ND	ND	0.000	10
Zinc	0.0191	0.0205	7.05	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

10C-IN

LINEAR DYNAMIC RANGE

SDG:	L1099840	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Date:**	02/25/19 08:18

Analyte	LDR *ppm*
ALUMINUM	500
ANTIMONY	10
ARSENIC	10
BARIUM	10
BERYLLIUM	10
BORON	10
CADMIUM	10
CALCIUM	1000
CHROMIUM	10
COBALT	2
COPPER	0.20
IRON	500
LEAD	10
MAGNESIUM	200
MANGANESE	10
MOLYBDENUM	10
NICKEL	2
POTASSIUM	1000
SELENIUM	10
SILVER	1
SODIUM	1000
STRONTIUM	5
THALLIUM	10
THORIUM	10
TIN	10
TITANIUM	10
URANIUM	10
VANADIUM	10
ZINC	2

11-IN

INTERNAL STANDARD ASSOCIATION

SDG:	L1099840	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Analysis Date:**	05/21/19 11:35
Instrument Run:	052119ICPMS9A		

Analyte	Assoc. Internal Standard 1
CHROMIUM - 52	GERMANIUM - 72
COBALT - 59	GERMANIUM - 72
NICKEL - 60	GERMANIUM - 72
COPPER - 63	GERMANIUM (NO HE) - 72
ZINC - 66	GERMANIUM - 72
ARSENIC - 75	GERMANIUM - 72
SELENIUM - 78	TELLURIUM (HIGH HE) - 125
SILVER - 107	RHODIUM - 103
CADMIUM - 111	TELLURIUM - 125
TIN - 118	RHODIUM - 103
ANTIMONY - 121	RHODIUM - 103
THALLIUM - 205	BISMUTH (NO HE) - 209
LEAD - 208	BISMUTH (NO HE) - 209

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Calibration Start Date:**	05/21/19 19:55
Analytical Run:	052119ICPMS9A	**Calibration End Date:**	05/21/19 20:18

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
TUNE	ICPMS9tn052120191135	20190521113531	05/21/19 11:35	1	
CALBLK	ICPMS90521191951	20190521195117	05/21/19 19:51	1	
CAL	STD1	20190521195551	05/21/19 19:55	1	
CAL	STD2	20190521200026	05/21/19 20:00	1	
CAL	STD3	20190521200502	05/21/19 20:05	1	
CAL	STD4	20190521200938	05/21/19 20:09	1	
CAL	STD5	20190521201413	05/21/19 20:14	1	
CAL	STD6	20190521201848	05/21/19 20:18	1	
ICV	ICPMS90521192023	20190521202323	05/21/19 20:23	1	
ICB	ICPMS90521192051	20190521205141	05/21/19 20:51	1	
CCV	ICPMS90521192056	20190521205617	05/21/19 20:56	1	
CCB	ICPMS90521192108	20190521210839	05/21/19 21:08	1	
ICVLL	ICPMS90521192113	20190521211315	05/21/19 21:13	1	
ICSA	ICPMS90521192118	20190521211833	05/21/19 21:18	1	
ICSAB	ICPMS90521192123	20190521212309	05/21/19 21:23	1	
BLANK	R3413448-9	20190521213705	05/21/19 21:37	1	WG1283250
LCS	R3413448-10	20190521214141	05/21/19 21:41	1	WG1283250
LCSD	R3413448-11	20190521214615	05/21/19 21:46	1	WG1283250
OS	L1098954-01	20190521215049	05/21/19 21:50	1	WG1283250
SD	R3413448-12	20190521215524	05/21/19 21:55	5	WG1283250
MS	R3413448-13	20190521215958	05/21/19 21:59	1	WG1283250
MSD	R3413448-14	20190521220432	05/21/19 22:04	1	WG1283250
WW-20190515-002-DAY 13	L1099840-01	20190521220907	05/21/19 22:09	1	WG1283250
CCV	ICPMS90521192223	20190521222324	05/21/19 22:23	1	
CCB	ICPMS90521192246	20190521224649	05/21/19 22:46	1	
MS	R3413448-17	20190521225213	05/21/19 22:52	1	WG1283250
MSD	R3413448-18	20190521225648	05/21/19 22:56	1	WG1283250
CCV	ICPMS90521192320	20190521232038	05/21/19 23:20	1	
CCB	ICPMS90521192328	20190521232849	05/21/19 23:28	1	
CCVLL	ICPMS90521192333	20190521233324	05/21/19 23:33	1	
ICSA	ICPMS90521192338	20190521233800	05/21/19 23:38	1	
ICSAB	ICPMS90521192342	20190521234235	05/21/19 23:42	1	

13-IN

ICP/MS TUNE

Lab File ID:	20190521113531	**SDG:**	L1099840
Instrument ID:	ICPMS9	**Analysis Date/Time**	05/21/19 11:35
Analytical Method:	200.8		

Element - Mass	Avg. Measured Mass	Avg. Peak Width	Height	RSD
	u	u	%	%
IN - 115	115.05	0.37238490	5	0.87090090
PB - 206	206	0.52942150	5	1.648770
PB - 207	206.95	0.50610770	5	0.81839480
PB - 208	207.95	0.55264660	5	2.027364
MG - 24	23.95	0.53398080	5	1.087838
MG - 25	24.95	0.49444630	5	1.692459
MG - 26	25.95	0.53002270	5	1.091062
CO - 59	59	0.45910250	5	1.823874
BE - 9	9	0.52978930	5	0.76419560

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1099840	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	05/21/19 20:23
Instrument Run:	052119ICPMS9A	**End Date:**	05/21/19 21:37

Client Sample ID	Lab Sample ID	Analysis Date Time	BISMUTH (NO HE)		GERMANIUM		GERMANIUM (HIGH HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS90521192023	05/21/19 20:23	97.20		102		104	
ICB	ICPMS90521192051	05/21/19 20:51	103		103		102	
CCV	ICPMS90521192056	05/21/19 20:56	98.10		105		104	
CCB	ICPMS90521192108	05/21/19 21:08	103		105		104	
ICVLL	ICPMS90521192113	05/21/19 21:13	101		106		105	
ICSA	ICPMS90521192118	05/21/19 21:18	96.10		108		112	
ICSAB	ICPMS90521192123	05/21/19 21:23	96.80		106		112	
CCV	ICPMS90521192223	05/21/19 22:23	101		106		109	
CCB	ICPMS90521192246	05/21/19 22:46	100		102		105	
CCV	ICPMS90521192320	05/21/19 23:20	104		108		109	
CCB	ICPMS90521192328	05/21/19 23:28	104		106		109	
CCVLL	ICPMS90521192333	05/21/19 23:33	105		110		112	
ICSA	ICPMS90521192338	05/21/19 23:38	100		119		122	
ICSAB	ICPMS90521192342	05/21/19 23:42	102		113		123	
OS	L1098954-01	05/21/19 21:50	98.30		103		106	
WW-20190515-002-DAY 13	L1099840-01	05/21/19 22:09	90.80		97.20		102	
LCS	R3413448-10	05/21/19 21:41	98.60		101		106	
LCSD	R3413448-11	05/21/19 21:46	100		103		106	
SD	R3413448-12	05/21/19 21:55	100		103		105	
MS	R3413448-13	05/21/19 21:59	95.40		103		106	
MSD	R3413448-14	05/21/19 22:04	97.30		103		106	
MS	R3413448-17	05/21/19 22:52	95.10		103		105	
MSD	R3413448-18	05/21/19 22:56	94.40		102		108	
BLANK	R3413448-9	05/21/19 21:37	102		99.50		104	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1099840	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	05/21/19 20:23
Instrument Run:	052119ICPMS9A	**End Date:**	05/21/19 21:37

Client Sample ID	Lab Sample ID	Analysis Date Time	GERMANIUM (NO HE)		RHODIUM		SCANDIUM	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS90521192023	05/21/19 20:23	102		101		104	
ICB	ICPMS90521192051	05/21/19 20:51	101		104		103	
CCV	ICPMS90521192056	05/21/19 20:56	101		102		106	
CCB	ICPMS90521192108	05/21/19 21:08	99.80		104		104	
ICVLL	ICPMS90521192113	05/21/19 21:13	101		104		106	
ICSA	ICPMS90521192118	05/21/19 21:18	104		96		100	
ICSAB	ICPMS90521192123	05/21/19 21:23	105		96		100	
CCV	ICPMS90521192223	05/21/19 22:23	105		105		107	
CCB	ICPMS90521192246	05/21/19 22:46	101		105		104	
CCV	ICPMS90521192320	05/21/19 23:20	106		106		108	
CCB	ICPMS90521192328	05/21/19 23:28	103		107		107	
CCVLL	ICPMS90521192333	05/21/19 23:33	104		108		108	
ICSA	ICPMS90521192338	05/21/19 23:38	109		104		114	
ICSAB	ICPMS90521192342	05/21/19 23:42	109		101		108	
OS	L1098954-01	05/21/19 21:50	100		100		102	
WW-20190515-002-DAY 13	L1099840-01	05/21/19 22:09	97.70		92.90		97.90	
LCS	R3413448-10	05/21/19 21:41	99.90		99.90		102	
LCSD	R3413448-11	05/21/19 21:46	101		100		103	
SD	R3413448-12	05/21/19 21:55	99.90		102		104	
MS	R3413448-13	05/21/19 21:59	100		99.10		102	
MSD	R3413448-14	05/21/19 22:04	99.80		99.70		102	
MS	R3413448-17	05/21/19 22:52	102		97.10		102	
MSD	R3413448-18	05/21/19 22:56	102		98.10		103	
BLANK	R3413448-9	05/21/19 21:37	101		102		102	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1099840	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	05/21/19 20:23
Instrument Run:	052119ICPMS9A	**End Date:**	05/21/19 21:37

Client Sample ID	Lab Sample ID	Analysis Date Time	SCANDIUM (NO HE)		TELLURIUM		TELLURIUM (HIGH HE)	
			% Rec.	Q	% Rec.	Q	% Rec.	Q
ICV	ICPMS90521192023	05/21/19 20:23	101		105		104	
ICB	ICPMS90521192051	05/21/19 20:51	99.40		105		103	
CCV	ICPMS90521192056	05/21/19 20:56	99.60		108		105	
CCB	ICPMS90521192108	05/21/19 21:08	98.80		106		104	
ICVLL	ICPMS90521192113	05/21/19 21:13	101		107		105	
ICSA	ICPMS90521192118	05/21/19 21:18	98.90		99.70		99.90	
ICSAB	ICPMS90521192123	05/21/19 21:23	101		98.20		100	
CCV	ICPMS90521192223	05/21/19 22:23	107		109		111	
CCB	ICPMS90521192246	05/21/19 22:46	102		105		105	
CCV	ICPMS90521192320	05/21/19 23:20	107		111		110	
CCB	ICPMS90521192328	05/21/19 23:28	102		108		108	
CCVLL	ICPMS90521192333	05/21/19 23:33	104		110		112	
ICSA	ICPMS90521192338	05/21/19 23:38	105		109		107	
ICSAB	ICPMS90521192342	05/21/19 23:42	107		103		107	
OS	L1098954-01	05/21/19 21:50	101		101		105	
WW-20190515-002-DAY 13	L1099840-01	05/21/19 22:09	92.20		93.30		96.20	
LCS	R3413448-10	05/21/19 21:41	103		102		106	
LCSD	R3413448-11	05/21/19 21:46	99.10		103		105	
SD	R3413448-12	05/21/19 21:55	101		105		106	
MS	R3413448-13	05/21/19 21:59	99.90		101		105	
MSD	R3413448-14	05/21/19 22:04	96.70		101		105	
MS	R3413448-17	05/21/19 22:52	98.80		98.40		102	
MSD	R3413448-18	05/21/19 22:56	101		97.20		101	
BLANK	R3413448-9	05/21/19 21:37	100		101		104	

14-IN

ICP/MS INTERNAL STANDARDS RELATIVE INTENSITY

SDG:	L1099840	**Analytical Method:**	200.8
Instrument ID:	ICPMS9	**Start Date:**	05/21/19 20:23
Instrument Run:	052119ICPMS9A	**End Date:**	05/21/19 21:37

Client Sample ID	Lab Sample ID	Analysis Date Time	TELLURIUM (NO HE)	
			% Rec.	Q
ICV	ICPMS90521192023	05/21/19 20:23	104	
ICB	ICPMS90521192051	05/21/19 20:51	105	
CCV	ICPMS90521192056	05/21/19 20:56	107	
CCB	ICPMS90521192108	05/21/19 21:08	107	
ICVLL	ICPMS90521192113	05/21/19 21:13	108	
ICSA	ICPMS90521192118	05/21/19 21:18	101	
ICSAB	ICPMS90521192123	05/21/19 21:23	101	
CCV	ICPMS90521192223	05/21/19 22:23	113	
CCB	ICPMS90521192246	05/21/19 22:46	107	
CCV	ICPMS90521192320	05/21/19 23:20	114	
CCB	ICPMS90521192328	05/21/19 23:28	111	
CCVLL	ICPMS90521192333	05/21/19 23:33	113	
ICSA	ICPMS90521192338	05/21/19 23:38	107	
ICSAB	ICPMS90521192342	05/21/19 23:42	107	
OS	L1098954-01	05/21/19 21:50	106	
WW-20190515-002-DAY 13	L1099840-01	05/21/19 22:09	98.10	
LCS	R3413448-10	05/21/19 21:41	107	
LCSD	R3413448-11	05/21/19 21:46	107	
SD	R3413448-12	05/21/19 21:55	108	
MS	R3413448-13	05/21/19 21:59	104	
MSD	R3413448-14	05/21/19 22:04	106	
MS	R3413448-17	05/21/19 22:52	102	
MSD	R3413448-18	05/21/19 22:56	102	
BLANK	R3413448-9	05/21/19 21:37	106	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	**Std Conc** mg/l	**Result** mg/l	**Rec.** %	**Std Conc** mg/l	**Result** mg/l	**Rec.** %
CHROMIUM	0.0010	.001009186	101	0.0020	.001982859	99.10
COBALT	0.0010	.001029107	103	0.0020	.002016399	101
NICKEL	0.0010	.00106021	106	0.0020	.002103003	105
COPPER	0.0010	.001188949	119	0.0020	.002463086	123
ZINC	0.0010	.001450959	145	0.0020	.00241738	121
ARSENIC	0.0010	.001029266	103	0.0020	.002067309	103
SILVER	0.0010	.001028055	103	0.0020	.001962587	98.10
CADMIUM	0.0010	.000983676	98.40	0.0020	.002122136	106
TIN	0.0010	.001081486	108	0.0020	.00216464	108
ANTIMONY	0.0010	.00097966	98	0.0020	.002039715	102
THALLIUM	0.0010	.000980453	98	0.0020	.002087941	104
File ID:		20190521195551			20190521200026	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.01	.009645206	96.50	0.05	.04999094	100
COBALT	0.01	.009848637	98.50	0.05	.0498706	99.70
NICKEL	0.01	.009886598	98.90	0.05	.04976911	99.50
COPPER	0.01	.01017574	102	0.05	.05076712	102
ZINC	0.01	.01032137	103	0.05	.04966333	99.30
ARSENIC	0.01	.009663907	96.60	0.05	.04961598	99.20
SILVER	0.01	.009693694	96.90	0.05	.04809611	96.20
CADMIUM	0.01	.009726261	97.30	0.05	.05001881	100
TIN	0.01	.009675901	96.80	0.05	.04768966	95.40
ANTIMONY	0.01	.009584222	95.80	0.05	.04724395	94.50
THALLIUM	0.01	.009461298	94.60	0.05	.04916164	98.30
File ID:		20190521200502			20190521200938	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
CHROMIUM	0.10	.09840605	98.40	0.20	.2008171	100
COBALT	0.10	.09874029	98.70	0.20	.2006695	100
NICKEL	0.10	.09827157	98.30	0.20	.2009263	100
COPPER	0.10	.0998938	99.90	0.20	.199847	99.90
ZINC	0.10	.09847377	98.50	0.20	.2008248	100
ARSENIC	0.10	.09863237	98.60	0.20	.2007958	100
SILVER	0.10	.1003553	100	0.20	.2003139	100
CADMIUM	0.10	.1005046	101	0.20	.1997555	99.90
TIN	0.10	.09951905	99.50	0.20	.2008322	100
ANTIMONY	0.10	.09975018	99.80	0.20	.2008344	100
THALLIUM	0.10	.09873663	98.70	0.20	.2008674	100
File ID:		20190521201413			20190521201848	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.0010	.00088667	88.70	0.0020	.001978592	98.90
File ID:		20190521195551			20190521200026	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.01	.008920845	89.20	0.05	.04861105	97.20
File ID:		20190521200502			20190521200938	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SELENIUM	0.10	.09850734	98.50	0.20	.2011483	101
File ID:		20190521201413			20190521201848	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	**Std Conc** mg/l	**Result** mg/l	**Rec.** %	**Std Conc** mg/l	**Result** mg/l	**Rec.** %
LEAD	0.0010	.00098962	99	0.0020	.002111496	106
File ID:		20190521195551			20190521200026	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
LEAD	0.01	.009599821	96	0.05	.04902068	98
File ID:		20190521200502			20190521200938	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
LEAD	0.10	.09775637	97.80	0.20	.2013856	101
File ID:		20190521201413			20190521201848	

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
CHROMIUM	52	8	5	0.999955	135.0404	0.048012
COBALT	59	8	5	0.999972	256.9144	0.005713
NICKEL	60	8	5	0.999945	71.41284	0.019095
COPPER	63	8	5	0.999993	49.09349	0.012012
ZINC	66	8	5	0.999947	27.21531	0.010493
ARSENIC	75	8	5	0.999964	21.38203	0.000764
SILVER	107	8	5	0.99995	10.47905	0.000074
CADMIUM	111	8	5	0.999994	8.54333	0.000038
TIN	118	8	5	0.999919	2.139618	0.000229
ANTIMONY	121	8	5	0.999896	2.97408	0.00031
THALLIUM	205	8	5	0.99996	1.866751	0.000016

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
LEAD	208	8	5	0.999896	1.353133	0.000032

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

16B-IN

ICP/MS INITIAL CALIBRATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/21/19 19:55
Instrument ID:	ICPMS9	**Calibration (end) date/time:**	05/21/19 20:18
Analytical Method:	200.8	**Analytical Run:**	052119ICPMS9A

Analyte	Mass	Cal. Type	Weightage	Corr.	Slope	Incpt
SELENIUM	78	8	5	0.999931	0.202159	0.000011

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

2540 C-2011 Gravimetric Analysis

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	13	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/21/19 14:53
Analytical Batch:	WG1284161	**Analysis Date/Time:**	05/21/19 15:40
Dilution Factor:	1	**Prep Method:**	SM 2540 C
Analytical Method:	2540 C-2011	**Sample Vol Used:**	20 ml
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Dissolved Solids	DSOLIDS	2170		14.1	50.0	50.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413853-1

Lab Sample ID:	R3413853-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/21/19 14:52
Analytical Batch:	WG1284161	**Analysis Date/Time:**	05/21/19 15:40
Dilution Factor:	1	**Prep Method:**	SM 2540 C
Analytical Method:	2540 C-2011	**Sample Vol Used:**	100 ml
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Dissolved Solids	DSOLIDS	U		2.82	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413853-3

Lab Sample ID:	R3413853-3	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/15/19 10:30
Lab File ID:	02	**Received Date/Time:**	05/16/19 15:37
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/21/19 14:53
Analytical Batch:	WG1284161	**Analysis Date/Time:**	05/21/19 15:40
Dilution Factor:	1	**Prep Method:**	SM 2540 C
Analytical Method:	2540 C-2011	**Sample Vol Used:**	100 ml
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	64.0	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Dissolved Solids	DSOLIDS	48.0		2.82	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413853-2

Lab Sample ID:	R3413853-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/21/19 14:52
Analytical Batch:	WG1284161	**Analysis Date/Time:**	05/21/19 15:40
Dilution Factor:	1	**Prep Method:**	SM 2540 C
Analytical Method:	2540 C-2011	**Sample Vol Used:**	10 ml
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Dissolved Solids	DSOLIDS	8750		28.2	100	100

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	_____
Instrument ID:	WETBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 C-2011	**Analytical Run:**	WG1284161

Sample ID:	**BLANK Result**	**BLANK Qual**
File ID:	01	
Analyte	mg/l	
DISSOLVED SOLIDS	U	

6-IN

DUPLICATES
L1099840-01

SAMPLE NO.:
R3413853-3

DUP Sample / File ID:	R3413853-3 / 02	**SDG:**	L1099840
OS Sample / File ID:	L1099717-01 / 12	**Analytical Batch:**	WG1284161
Instrument ID:	WETBAL3	**Dilution Factor:**	1
Analytical Method:	2540 C-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Dissolved Solids	49.0	48.0	2.06	5

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3413853-2

LCS Sample / File ID:	R3413853-2 / 03	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1284161
Instrument ID:	WETBAL3	**Dilution Factor:**	1
Analytical Method:	2540 C-2011	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Dissolved Solids	8800	8750		99.4		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	2540 C-2011
Instrument ID:	WETBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG1284161	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R3413853-1	01	05/21/19 15:40	1	WG1284161
DUP	R3413853-3	02	05/21/19 15:40	1	WG1284161
LCS	R3413853-2	03	05/21/19 15:40	1	WG1284161
OS	L1099717-01	12	05/21/19 15:40	1	WG1284161
WW-20190515-002-DAY 13	L1099840-01	13	05/21/19 15:40	1	WG1284161

2540 D-2011 Gravimetric Analysis

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	05	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/20/19 19:26
Analytical Batch:	WG1283783	**Analysis Date/Time:**	05/20/19 19:39
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	1000 ml
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Suspended Solids	SSOLIDS	0.600	J	0.350	2.50	2.50

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413288-1

Lab Sample ID:	R3413288-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	01	**Received Date/Time:**	
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/20/19 19:25
Analytical Batch:	WG1283783	**Analysis Date/Time:**	05/20/19 19:39
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	1000 ml
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Suspended Solids	SSOLIDS	U		0.350	2.50	2.50

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413288-3

Lab Sample ID:	R3413288-3	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/16/19 13:20
Lab File ID:	02	**Received Date/Time:**	05/18/19 08:45
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/20/19 19:26
Analytical Batch:	WG1283783	**Analysis Date/Time:**	05/20/19 19:39
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	200 ml
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Suspended Solids	SSOLIDS	80.5	J3	1.75	12.50	12.5

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413288-2

Lab Sample ID:	R3413288-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	03	**Received Date/Time:**	
Instrument ID:	WETBAL3	**Preparation Date/Time:**	05/20/19 19:25
Analytical Batch:	WG1283783	**Analysis Date/Time:**	05/20/19 19:39
Dilution Factor:	1	**Prep Method:**	SM 2540 D
Analytical Method:	2540 D-2011	**Sample Vol Used:**	25 ml
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Suspended Solids	SSOLIDS	804		14.0	100	100

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	_____
Instrument ID:	WETBAL3	**Calibration (end) date/time:**	_____
Analytical Method:	2540 D-2011	**Analytical Run:**	WG1283783

Sample ID:	**BLANK Result**	**BLANK Qual**
File ID:	01	
Analyte	mg/l	
SUSPENDED SOLIDS	U	

6-IN

DUPLICATES
L1099840-01

SAMPLE NO.:
R3413288-3

DUP Sample / File ID:	R3413288-3 / 02	**SDG:**	L1099840
OS Sample / File ID:	L1100390-01 / 06	**Analytical Batch:**	WG1283783
Instrument ID:	WETBAL3	**Dilution Factor:**	1
Analytical Method:	2540 D-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Suspended Solids	74.0	80.5	8.41*	5

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3413288-2

LCS Sample / File ID:	R3413288-2 / 03	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1283783
Instrument ID:	WETBAL3	**Dilution Factor:**	1
Analytical Method:	2540 D-2011	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Suspended Solids	773	804		104		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	2540 D-2011
Instrument ID:	WETBAL3	**Calibration Start Date:**	_____
Analytical Run:	WG1283783	**Calibration End Date:**	_____

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
BLANK	R3413288-1	01	05/20/19 19:39	1	WG1283783
DUP	R3413288-3	02	05/20/19 19:39	1	WG1283783
LCS	R3413288-2	03	05/20/19 19:39	1	WG1283783
OS	L1100390-01	06	05/20/19 19:39	1	WG1283783
WW-20190515-002-DAY 13	L1099840-01	05	05/20/19 19:39	1	WG1283783

300.0 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	36.0000.TXT	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	IC-15	**Preparation Date/Time:**	05/17/19 23:15
Analytical Batch:	WG1283017	**Analysis Date/Time:**	05/17/19 23:15
Dilution Factor:	10	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	387		0.519	1.00	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412513-1

Lab Sample ID:	R3412513-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	10.0000.TXT	**Received Date/Time:**	
Instrument ID:	IC-15	**Preparation Date/Time:**	05/17/19 14:36
Analytical Batch:	WG1283017	**Analysis Date/Time:**	05/17/19 14:36
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	U		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412513-2

Lab Sample ID:	R3412513-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	11.0000.TXT	**Received Date/Time:**	
Instrument ID:	IC-15	**Preparation Date/Time:**	05/17/19 14:50
Analytical Batch:	WG1283017	**Analysis Date/Time:**	05/17/19 14:50
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	40.3		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412513-3

Lab Sample ID:	R3412513-3	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/16/19 10:35
Lab File ID:	14.0000.TXT	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	IC-15	**Preparation Date/Time:**	05/17/19 17:47
Analytical Batch:	WG1283017	**Analysis Date/Time:**	05/17/19 17:47
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	16.9		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412513-6

Lab Sample ID:	R3412513-6	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/16/19 13:25
Lab File ID:	25.0000.TXT	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	IC-15	**Preparation Date/Time:**	05/17/19 20:31
Analytical Batch:	WG1283017	**Analysis Date/Time:**	05/17/19 20:31
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	15.2		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412513-4

Lab Sample ID:	R3412513-4	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/16/19 10:35
Lab File ID:	15.0000.TXT	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	IC-15	**Preparation Date/Time:**	05/17/19 18:02
Analytical Batch:	WG1283017	**Analysis Date/Time:**	05/17/19 18:02
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	65.7		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412513-7

Lab Sample ID:	R3412513-7	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/16/19 13:25
Lab File ID:	26.0000.TXT	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	IC-15	**Preparation Date/Time:**	05/17/19 20:46
Analytical Batch:	WG1283017	**Analysis Date/Time:**	05/17/19 20:46
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	64.7		0.0519	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412513-5

Lab Sample ID:	R3412513-5	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/16/19 10:35
Lab File ID:	16.0000.TXT	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	IC-15	**Preparation Date/Time:**	05/17/19 18:17
Analytical Batch:	WG1283017	**Analysis Date/Time:**	05/17/19 18:17
Dilution Factor:	1	**Prep Method:**	300.0
Analytical Method:	300.0	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Chloride	16887-00-6	65.9		0.0519	1	1.00

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/16/19 11:37
Instrument ID:	IC-15	**Calibration (end) date/time:**	05/16/19 12:52
Analytical Method:	300.0	**Analytical Run:**	051719_2
Concentration Units:	mg/l		

	ICV				**CCV**				**CCV**			
Sample ID:	IC-150517191421				IC-150517191931				IC-150517192230			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CHLORIDE	50	51.4915	103		50	49.1212	98.20		50	49.2598	98.50	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/16/19 11:37
Instrument ID:	IC-15	**Calibration (end) date/time:**	05/16/19 12:52
Analytical Method:	300.0	**Analytical Run:**	051719_2
Concentration Units:	mg/l		

CCV

Sample ID: IC-150517192330-2

Analyte	True	Found	%R	%RSD
CHLORIDE	50	49.3612	98.70	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	05/16/19 11:37
Instrument ID:	IC-15	**Calibration (end) date/time:**	05/16/19 12:52
Analytical Method:	300.0	**Analytical Run:**	051719_2

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	10.0000.TXT		22.0000.TXT		34.0000.TXT		38.0000.TXT-2	
Analyte	mg/l		mg/l		mg/l		mg/l	
CHLORIDE	U		0.0000	U	-0.09610	U	-0.07550	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3412513-4
R3412513-5

MS Sample / File ID:	R3412513-4 / 15.0000.TXT	**SDG:**	L1099840
MSD Sample / File ID:	R3412513-5 / 16.0000.TXT	**Analytical Batch:**	WG1283017
OS Sample / File ID:	L1099970-12 / 13.0000.TXT	**Matrix:**	WW
Instrument ID:	IC-15		
Analytical Method:	300.0		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Chloride	50.0	16.8	65.7	65.9	97.8	98.1	1	80.0 - 120	0.284	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3412513-7

MS Sample / File ID:	R3412513-7 / 26.0000.TXT	**SDG:**	L1099840
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1283017
OS Sample / File ID:	L1099970-18 / 24.0000.TXT	**Matrix:**	WW
Instrument ID:	IC-15		
Analytical Method:	300.0		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Chloride	50.0	15.1	64.7		99.1		1	80.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3412513-3

DUP Sample / File ID:	R3412513-3 / 14.0000.TXT	**SDG:**	L1099840
OS Sample / File ID:	L1099970-12 / 13.0000.TXT	**Analytical Batch:**	WG1283017
Instrument ID:	IC-15	**Dilution Factor:**	1
Analytical Method:	300.0	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Chloride	16.8	16.9	0.443	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3412513-6

DUP Sample / File ID:	R3412513-6 / 25.0000.TXT	**SDG:**	L1099840
OS Sample / File ID:	L1099970-18 / 24.0000.TXT	**Analytical Batch:**	WG1283017
Instrument ID:	IC-15	**Dilution Factor:**	1
Analytical Method:	300.0	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Chloride	15.1	15.2	0.374	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3412513-2

LCS Sample / File ID:	R3412513-2 / 11.0000.TXT	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1283017
Instrument ID:	IC-15	**Dilution Factor:**	1
Analytical Method:	300.0	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Chloride	40.0	40.3		101		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	300.0
Instrument ID:	IC-15	**Calibration Start Date:**	05/16/19 11:37
Analytical Run:	051619	**Calibration End Date:**	05/16/19 12:52

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	STD 1	02.0000.TXT	05/16/19 11:37	1	
CAL	STD 2	03.0000.TXT	05/16/19 11:52	1	
CAL	STD 3	04.0000.TXT	05/16/19 12:07	1	
CAL	STD 4	05.0000.TXT	05/16/19 12:22	1	
CAL	STD 5	06.0000.TXT	05/16/19 12:37	1	
CAL	STD 6	07.0000.TXT	05/16/19 12:52	1	

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	300.0
Instrument ID:	IC-15	**Calibration Start Date:**	05/16/19 11:37
Analytical Run:	051719_2	**Calibration End Date:**	05/16/19 12:52

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	IC-150517191421	09.0000.TXT	05/17/19 14:21	1	
BLANK	R3412513-1	10.0000.TXT	05/17/19 14:36	1	WG1283017
LCS	R3412513-2	11.0000.TXT	05/17/19 14:50	1	WG1283017
RL	IC-150517191505	12.0000.TXT	05/17/19 15:05	1	
OS	L1099970-12	13.0000.TXT	05/17/19 17:33	1	WG1283017
DUP	R3412513-3	14.0000.TXT	05/17/19 17:47	1	WG1283017
MS	R3412513-4	15.0000.TXT	05/17/19 18:02	1	WG1283017
MSD	R3412513-5	16.0000.TXT	05/17/19 18:17	1	WG1283017
CCV	IC-150517191931	21.0000.TXT	05/17/19 19:31	1	
CCB	IC-150517191946	22.0000.TXT	05/17/19 19:46	1	
OS	L1099970-18	24.0000.TXT	05/17/19 20:16	1	WG1283017
DUP	R3412513-6	25.0000.TXT	05/17/19 20:31	1	WG1283017
MS	R3412513-7	26.0000.TXT	05/17/19 20:46	1	WG1283017
CCV	IC-150517192230	33.0000.TXT	05/17/19 22:30	1	
CCB	IC-150517192245	34.0000.TXT	05/17/19 22:45	1	
WW-20190515-002-DAY 13	L1099840-01	36.0000.TXT	05/17/19 23:15	10	WG1283017
CCV	IC-150517192330-2	37.0000.TXT-2	05/17/19 23:30	1	
CCB	IC-150517192345-2	38.0000.TXT-2	05/17/19 23:45	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/16/19 11:37
Instrument ID:	IC-15	**Calibration (end) date/time:**	05/16/19 12:52
Analytical Method:	300.0	**Analytical Run:**	051719_2

Analyte	**Std Conc**	**Result**	**Rec.** %	**Std Conc**	**Result**	**Rec.** %
CHLORIDE	1	.9652	96.50	5	5.1619	103
File ID:		02.0000.TXT			03.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/16/19 11:37
Instrument ID:	IC-15	**Calibration (end) date/time:**	05/16/19 12:52
Analytical Method:	300.0	**Analytical Run:**	051719_2

Analyte	**Std Conc**	**Result**	**Rec.** %	**Std Conc**	**Result**	**Rec.** %
CHLORIDE	10	10.2023	102	25	24.5609	98.20
File ID:		04.0000.TXT			05.0000.TXT	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/16/19 11:37
Instrument ID:	IC-15	**Calibration (end) date/time:**	05/16/19 12:52
Analytical Method:	300.0	**Analytical Run:**	051719_2

Analyte	**Std Conc**	**Result**	**Rec.** %	**Std Conc**	**Result**	**Rec.** %
CHLORIDE	50	49.8647	99.70	100	100.245	100
File ID:		06.0000.TXT			07.0000.TXT	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/16/19 11:37
Instrument ID:	IC-15	**Calibration (end) date/time:**	05/16/19 12:52
Analytical Method:	300.0	**Analytical Run:**	051719_2

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CHLORIDE	5	1	0.99994			0.07	0.01	3.207

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

350.1 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190522114600	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/22/19 11:46
Analytical Batch:	WG1284142	**Analysis Date/Time:**	05/22/19 11:46
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	U		0.0317	0.100	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413651-1

Lab Sample ID:	R3413651-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20190522110900	**Received Date/Time:**	
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/22/19 11:09
Analytical Batch:	WG1284142	**Analysis Date/Time:**	05/22/19 11:09
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	U		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413651-2

Lab Sample ID:	R3413651-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20190522111100	**Received Date/Time:**	
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/22/19 11:11
Analytical Batch:	WG1284142	**Analysis Date/Time:**	05/22/19 11:11
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	7.43		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413651-3

Lab Sample ID:	R3413651-3	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/15/19 09:00
Lab File ID:	20190522111400	**Received Date/Time:**	05/15/19 17:37
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/22/19 11:14
Analytical Batch:	WG1284142	**Analysis Date/Time:**	05/22/19 11:14
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	1170	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	8.97		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413651-6

Lab Sample ID:	R3413651-6	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190522114700	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/22/19 11:47
Analytical Batch:	WG1284142	**Analysis Date/Time:**	05/22/19 11:47
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	0.000		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413651-4

Lab Sample ID:	R3413651-4	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 09:00
Lab File ID:	20190522111700	**Received Date/Time:**	05/15/19 17:37
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/22/19 11:17
Analytical Batch:	WG1284142	**Analysis Date/Time:**	05/22/19 11:17
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):	1120	**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	12.4	E J6	0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413651-7

Lab Sample ID:	R3413651-7	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/16/19 08:35
Lab File ID:	20190522115000	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/22/19 11:50
Analytical Batch:	WG1284142	**Analysis Date/Time:**	05/22/19 11:50
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	4.87		0.0317	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413651-5

Lab Sample ID:	R3413651-5	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/15/19 09:00
Lab File ID:	20190522111900	**Received Date/Time:**	05/15/19 17:37
Instrument ID:	FS3100-01	**Preparation Date/Time:**	05/22/19 11:19
Analytical Batch:	WG1284142	**Analysis Date/Time:**	05/22/19 11:19
Dilution Factor:	1	**Prep Method:**	350.1
Analytical Method:	350.1	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	1120	**Final Wt/Vol:**	_____

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	7664-41-7	12.4	E J6	0.0317	0.10	0.100

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052219_2
Concentration Units:	mg/l		

	ICV				**CCV**				**CCV**			
Sample ID:	FS3100-010522191108				FS3100-010522191125				FS3100-010522191131			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
AMMONIA NITROGEN	5	4.917	98.30		5	4.982	99.60		5	4.948	99	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052219_2
Concentration Units:	mg/l		

CCV

Sample ID: FS3100-010522191152

Analyte	True	Found	%R	%RSD
AMMONIA NITROGEN	5	4.859	97.20	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052219_2

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190522110900		20190522112700		20190522113300		20190522115400	
Analyte	mg/l		mg/l		mg/l		mg/l	
AMMONIA NITROGEN	U		-0.02600		-0.03300		-0.03000	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413651-4
R3413651-5

MS Sample / File ID:	R3413651-4 / 20190522111700	**SDG:**	L1099840
MSD Sample / File ID:	R3413651-5 / 20190522111900	**Analytical Batch:**	WG1284142
OS Sample / File ID:	L1099223-02 / 20190522111600	**Matrix:**	WW
Instrument ID:	FS3100-01		
Analytical Method:	350.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Ammonia Nitrogen	5.00	8.02	12.4	12.4	88.4*	88.2*	1	90.0 - 110	0.0884	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413651-7

MS Sample / File ID:	R3413651-7 / 20190522115000	**SDG:**	L1099840
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1284142
OS Sample / File ID:	L1100004-01 / 20190522114900	**Matrix:**	WW
Instrument ID:	FS3100-01		
Analytical Method:	350.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Ammonia Nitrogen	5.00	ND	4.87		97.4		1	90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3413651-3

DUP Sample / File ID:	R3413651-3 / 20190522111400	**SDG:**	L1099840
OS Sample / File ID:	L1099223-01 / 20190522111200	**Analytical Batch:**	WG1284142
Instrument ID:	FS3100-01	**Dilution Factor:**	1
Analytical Method:	350.1	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	8.97	8.97	0.0446	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3413651-6

DUP Sample / File ID:	R3413651-6 / 20190522114700	**SDG:**	L1099840
OS Sample / File ID:	L1099840-01 / 20190522114600	**Analytical Batch:**	WG1284142
Instrument ID:	FS3100-01	**Dilution Factor:**	1
Analytical Method:	350.1	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Ammonia Nitrogen	U	0.000	0.000	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3413651-2

LCS Sample / File ID:	R3413651-2 / 20190522111100	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1284142
Instrument ID:	FS3100-01	**Dilution Factor:**	1
Analytical Method:	350.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Ammonia Nitrogen	7.50	7.43		99.0		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	350.1
Instrument ID:	FS3100-01	**Calibration Start Date:**	05/20/19 14:22
Analytical Run:	052019_2	**Calibration End Date:**	05/20/19 14:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	10.0	20190520142200	05/20/19 14:22	1	
CAL	5.00	20190520142300	05/20/19 14:23	1	
CAL	2.50	20190520142500	05/20/19 14:25	1	
CAL	1.00	20190520142700	05/20/19 14:27	1	
CAL	0.10	20190520142800	05/20/19 14:28	1	
CAL	0.00	20190520143000	05/20/19 14:30	1	

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	350.1
Instrument ID:	FS3100-01	**Calibration Start Date:**	05/20/19 14:22
Analytical Run:	052219_2	**Calibration End Date:**	05/20/19 14:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	FS3100-010522191108	20190522110800	05/22/19 11:08	1	
BLANK	R3413651-1	20190522110900	05/22/19 11:09	1	WG1284142
LCS	R3413651-2	20190522111100	05/22/19 11:11	1	WG1284142
OS	L1099223-01	20190522111200	05/22/19 11:12	1	WG1284142
DUP	R3413651-3	20190522111400	05/22/19 11:14	1	WG1284142
OS	L1099223-02	20190522111600	05/22/19 11:16	1	WG1284142
MS	R3413651-4	20190522111700	05/22/19 11:17	1	WG1284142
MSD	R3413651-5	20190522111900	05/22/19 11:19	1	WG1284142
CCV	FS3100-010522191125	20190522112500	05/22/19 11:25	1	
CCB	FS3100-010522191127	20190522112700	05/22/19 11:27	1	
CCV	FS3100-010522191131	20190522113100	05/22/19 11:31	1	
CCB	FS3100-010522191133	20190522113300	05/22/19 11:33	1	
WW-20190515-002-DAY 13	L1099840-01	20190522114600	05/22/19 11:46	1	WG1284142
DUP	R3413651-6	20190522114700	05/22/19 11:47	1	WG1284142
OS	L1100004-01	20190522114900	05/22/19 11:49	1	WG1284142
MS	R3413651-7	20190522115000	05/22/19 11:50	1	WG1284142
CCV	FS3100-010522191152	20190522115200	05/22/19 11:52	1	
CCB	FS3100-010522191154	20190522115400	05/22/19 11:54	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052219_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
AMMONIA NITROGEN	10	9.939	99.40	5	5.106	102
File ID:		20190520142200			20190520142300	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052219_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
AMMONIA NITROGEN	2.50	2.544	102	1	.969	96.90
File ID:		20190520142500			20190520142700	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052219_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
AMMONIA NITROGEN	0.10	.07	70	0	-.029	
File ID:		20190520142800			20190520143000	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 14:22
Instrument ID:	FS3100-01	**Calibration (end) date/time:**	05/20/19 14:30
Analytical Method:	350.1	**Analytical Run:**	052219_2

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
AMMONIA NITROGEN	0	5	0.99987			77988	2369.7	

Calibration Type

0 = Linear Regression

Weightage

5 = None

351.2 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190520161717	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1282996	**Analysis Date/Time:**	05/20/19 16:17
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	0.796	P1	0.0350	0.250	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412989-1

Lab Sample ID:	R3412989-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190520154354	**Received Date/Time:**	_____
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1282996	**Analysis Date/Time:**	05/20/19 15:43
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	0.0608	J	0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412989-2

Lab Sample ID:	R3412989-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190520154506	**Received Date/Time:**	_____
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1282996	**Analysis Date/Time:**	05/20/19 15:45
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	10.0		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412989-5

Lab Sample ID:	R3412989-5	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/10/19 11:13
Lab File ID:	20190520155438	**Received Date/Time:**	05/16/19 08:45
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1282996	**Analysis Date/Time:**	05/20/19 15:54
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	0.164		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412989-6

Lab Sample ID:	R3412989-6	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190520161828	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1282996	**Analysis Date/Time:**	05/20/19 16:18
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	0.152	J P1	0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412989-3

Lab Sample ID:	R3412989-3	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 08:35
Lab File ID:	20190520154842	**Received Date/Time:**	05/09/19 13:10
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1282996	**Analysis Date/Time:**	05/20/19 15:48
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	23.1	E	0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412989-7

Lab Sample ID:	R3412989-7	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190520161939	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1282996	**Analysis Date/Time:**	05/20/19 16:19
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	6.10		0.0350	0.25	0.250

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412989-4

Lab Sample ID:	R3412989-4	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 08:35
Lab File ID:	20190520154953	**Received Date/Time:**	05/09/19 13:10
Instrument ID:	LACHAT6	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1282996	**Analysis Date/Time:**	05/20/19 15:49
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	351.2	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	7727-37-9	24.3	E J5	0.0350	0.25	0.250

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R052019_5
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	LACHAT6052019154243				LACHAT6052019155550				LACHAT6052019161008			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
KJELDAHL NITROGEN, TKN	10	10.40	104		10	10.20	102		10	10.30	103	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R052019_5
Concentration Units:	mg/L		

CCV

Sample ID: LACHAT6052019162427

Analyte	True	Found	%R	%RSD
KJELDAHL NITROGEN, TKN	10	10.20	102	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R052019_5

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190520154354		20190520155702		20190520161121		20190520162539	
Analyte	mg/l		mg/L		mg/L		mg/L	
KJELDAHL NITROGEN, TKN	0.0608	J	0.1870		0.1580		-0.009160	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3412989-3
R3412989-4

MS Sample / File ID:	R3412989-3 / 20190520154842	**SDG:**	L1099840
MSD Sample / File ID:	R3412989-4 / 20190520154953	**Analytical Batch:**	WG1282996
OS Sample / File ID:	L1097058-01 / 20190520154730	**Matrix:**	WW
Instrument ID:	LACHAT6		
Analytical Method:	351.2		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Kjeldahl Nitrogen, TKN	5.00	17.8	23.1	24.3	106	130*	1	90.0 - 110	5.06	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3412989-7

MS Sample / File ID:	R3412989-7 / 20190520161939	**SDG:**	L1099840
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1282996
OS Sample / File ID:	L1099840-01 / 20190520161717	**Matrix:**	WW
Instrument ID:	LACHAT6		
Analytical Method:	351.2		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Kjeldahl Nitrogen, TKN	5.00	0.796	6.10		106		1	90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3412989-5

DUP Sample / File ID:	R3412989-5 / 20190520155438	**SDG:**	L1099840
OS Sample / File ID:	L1099331-01 / 20190520155327	**Analytical Batch:**	WG1282996
Instrument ID:	LACHAT6	**Dilution Factor:**	1
Analytical Method:	351.2	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	ND	0.164	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3412989-6

DUP Sample / File ID:	R3412989-6 / 20190520161828	**SDG:**	L1099840
OS Sample / File ID:	L1099840-01 / 20190520161717	**Analytical Batch:**	WG1282996
Instrument ID:	LACHAT6	**Dilution Factor:**	1
Analytical Method:	351.2	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Kjeldahl Nitrogen, TKN	0.796	0.152	136*	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3412989-2

LCS Sample / File ID:	R3412989-2 / 20190520154506	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1282996
Instrument ID:	LACHAT6	**Dilution Factor:**	1
Analytical Method:	351.2	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Kjeldahl Nitrogen, TKN	10.0	10.0		100		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	351.2
Instrument ID:	LACHAT6	**Calibration Start Date:**	04/08/19 13:21
Analytical Run:	CAL040819_1	**Calibration End Date:**	04/08/19 13:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	20.0	20190408132143	04/08/19 13:21	1	
CAL	10.0	20190408132256	04/08/19 13:22	1	
CAL	5.0	20190408132408	04/08/19 13:24	1	
CAL	2.5	20190408132519	04/08/19 13:25	1	
CAL	1.0	20190408132632	04/08/19 13:26	1	
CAL	0.5	20190408132743	04/08/19 13:27	1	
CAL	0.25	20190408132855	04/08/19 13:28	1	
CAL	0.0	20190408133007	04/08/19 13:30	1	

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	351.2
Instrument ID:	LACHAT6	**Calibration Start Date:**	04/08/19 13:21
Analytical Run:	R052019_5	**Calibration End Date:**	04/08/19 13:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	LACHAT6052019154243	20190520154243	05/20/19 15:42	1	
BLANK	R3412989-1	20190520154354	05/20/19 15:43	1	WG1282996
LCS	R3412989-2	20190520154506	05/20/19 15:45	1	WG1282996
OS	L1097058-01	20190520154730	05/20/19 15:47	1	WG1282996
MS	R3412989-3	20190520154842	05/20/19 15:48	1	WG1282996
MSD	R3412989-4	20190520154953	05/20/19 15:49	1	WG1282996
OS	L1099331-01	20190520155327	05/20/19 15:53	1	WG1282996
DUP	R3412989-5	20190520155438	05/20/19 15:54	1	WG1282996
CCV	LACHAT6052019155550	20190520155550	05/20/19 15:55	1	
CCB	LACHAT6052019155702	20190520155702	05/20/19 15:57	1	
CCV	LACHAT6052019161008	20190520161008	05/20/19 16:10	1	
CCB	LACHAT6052019161121	20190520161121	05/20/19 16:11	1	
WW-20190515-002-DAY 13	L1099840-01	20190520161717	05/20/19 16:17	1	WG1282996
DUP	R3412989-6	20190520161828	05/20/19 16:18	1	WG1282996
MS	R3412989-7	20190520161939	05/20/19 16:19	1	WG1282996
CCV	LACHAT6052019162427	20190520162427	05/20/19 16:24	1	
CCB	LACHAT6052019162539	20190520162539	05/20/19 16:25	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R052019_5

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
KJELDAHL NITROGEN, TKN	20	19.5988	98	10	10.3378	103
File ID:		20190408132143			20190408132256	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R052019_5

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
KJELDAHL NITROGEN, TKN	5	4.8883	97.80	2.50	2.44075	97.60
File ID:		20190408132408			20190408132519	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R052019_5

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
KJELDAHL NITROGEN, TKN	1	1.17445	117	0.50	.50035	100
File ID:		20190408132632			20190408132743	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R052019_5

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
KJELDAHL NITROGEN, TKN	0.25	.117625	47.10	0	.095575	
File ID:		20190408132855			20190408133007	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/08/19 13:21
Instrument ID:	LACHAT6	**Calibration (end) date/time:**	04/08/19 13:30
Analytical Method:	351.2	**Analytical Run:**	R052019_5

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
KJELDAHL NITROGEN, TKN	5	1	0.99969			0.315	0.0373	

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

365.4 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190520170023	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1283935	**Analysis Date/Time:**	05/20/19 17:00
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	0.117		0.0350	0.100	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413004-1

Lab Sample ID:	R3413004-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190520163839	**Received Date/Time:**	_____
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1283935	**Analysis Date/Time:**	05/20/19 16:38
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	U		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413004-2

Lab Sample ID:	R3413004-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190520163955	**Received Date/Time:**	_____
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1283935	**Analysis Date/Time:**	05/20/19 16:39
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	1.86		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413004-5

Lab Sample ID:	R3413004-5	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/10/19 11:13
Lab File ID:	20190520165008	**Received Date/Time:**	05/16/19 08:45
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1283935	**Analysis Date/Time:**	05/20/19 16:50
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	1.05		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413004-6

Lab Sample ID:	R3413004-6	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190520170140	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1283935	**Analysis Date/Time:**	05/20/19 17:01
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	0.0960	J	0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413004-3

Lab Sample ID:	R3413004-3	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 08:35
Lab File ID:	20190520164345	**Received Date/Time:**	05/09/19 13:10
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1283935	**Analysis Date/Time:**	05/20/19 16:43
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	5.16	E	0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413004-7

Lab Sample ID:	R3413004-7	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190520170257	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1283935	**Analysis Date/Time:**	05/20/19 17:02
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	2.57		0.0350	0.10	0.100

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413004-4

Lab Sample ID:	R3413004-4	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 08:35
Lab File ID:	20190520164502	**Received Date/Time:**	05/09/19 13:10
Instrument ID:	LACHAT3	**Preparation Date/Time:**	05/18/19 07:43
Analytical Batch:	WG1283935	**Analysis Date/Time:**	05/20/19 16:45
Dilution Factor:	1	**Prep Method:**	351.2/365.4
Analytical Method:	365.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	20 mL
Total Solids (%):	_____	**Final Wt/Vol:**	20 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	7723-14-0	5.26	E	0.0350	0.10	0.100

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R052019_2
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	LACHAT3052019163722				LACHAT3052019165124				LACHAT3052019170647			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
PHOSPHORUS,TOTAL	2.50	2.610	104		2.50	2.610	104		2.50	2.640	106	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R052019_2

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190520163839		20190520165241		20190520170804	
Analyte	mg/l		mg/L		mg/L	
PHOSPHORUS,TOTAL	U		0.02460		0.03640	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413004-3
R3413004-4

MS Sample / File ID:	R3413004-3 / 20190520164345	**SDG:**	L1099840
MSD Sample / File ID:	R3413004-4 / 20190520164502	**Analytical Batch:**	WG1283935
OS Sample / File ID:	L1097058-01 / 20190520164228	**Matrix:**	WW
Instrument ID:	LACHAT3		
Analytical Method:	365.4		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Phosphorus,Total	2.50	2.52	5.16	5.26	106	110	1	90.0 - 110	1.92	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413004-7

MS Sample / File ID:	R3413004-7 / 20190520170257	**SDG:**	L1099840
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1283935
OS Sample / File ID:	L1099840-01 / 20190520170023	**Matrix:**	WW
Instrument ID:	LACHAT3		
Analytical Method:	365.4		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Phosphorus,Total	2.50	0.117	2.57		98.1		1	90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES
L1099840-01

SAMPLE NO.:
R3413004-5

DUP Sample / File ID:	R3413004-5 / 20190520165008	**SDG:**	L1099840
OS Sample / File ID:	L1099331-01 / 20190520164852	**Analytical Batch:**	WG1283935
Instrument ID:	LACHAT3	**Dilution Factor:**	1
Analytical Method:	365.4	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	0.997	1.05	5.18	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3413004-6

DUP Sample / File ID:	R3413004-6 / 20190520170140	**SDG:**	L1099840
OS Sample / File ID:	L1099840-01 / 20190520170023	**Analytical Batch:**	WG1283935
Instrument ID:	LACHAT3	**Dilution Factor:**	1
Analytical Method:	365.4	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Phosphorus,Total	0.117	0.0960	19.7	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3413004-2

LCS Sample / File ID:	R3413004-2 / 20190520163955	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1283935
Instrument ID:	LACHAT3	**Dilution Factor:**	1
Analytical Method:	365.4	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Phosphorus,Total	2.00	1.86		93.0		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	365.4
Instrument ID:	LACHAT3	**Calibration Start Date:**	05/14/19 15:36
Analytical Run:	CAL051419_1	**Calibration End Date:**	05/14/19 15:43

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL 5.0		20190514153648	05/14/19 15:36	1	
CAL 2.5		20190514153805	05/14/19 15:38	1	
CAL 1.0		20190514153922	05/14/19 15:39	1	
CAL 0.5		20190514154038	05/14/19 15:40	1	
CAL 0.1		20190514154155	05/14/19 15:41	1	
CAL 0.0		20190514154311	05/14/19 15:43	1	

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	365.4
Instrument ID:	LACHAT3	**Calibration Start Date:**	05/14/19 15:36
Analytical Run:	R052019_2	**Calibration End Date:**	05/14/19 15:43

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	LACHAT3052019163722	20190520163722	05/20/19 16:37	1	
BLANK	R3413004-1	20190520163839	05/20/19 16:38	1	WG1283935
LCS	R3413004-2	20190520163955	05/20/19 16:39	1	WG1283935
OS	L1097058-01	20190520164228	05/20/19 16:42	1	WG1283935
MS	R3413004-3	20190520164345	05/20/19 16:43	1	WG1283935
MSD	R3413004-4	20190520164502	05/20/19 16:45	1	WG1283935
OS	L1099331-01	20190520164852	05/20/19 16:48	1	WG1283935
DUP	R3413004-5	20190520165008	05/20/19 16:50	1	WG1283935
CCV	LACHAT3052019165124	20190520165124	05/20/19 16:51	1	
CCB	LACHAT3052019165241	20190520165241	05/20/19 16:52	1	
WW-20190515-002-DAY 13	L1099840-01	20190520170023	05/20/19 17:00	1	WG1283935
DUP	R3413004-6	20190520170140	05/20/19 17:01	1	WG1283935
MS	R3413004-7	20190520170257	05/20/19 17:02	1	WG1283935
CCV	LACHAT3052019170647	20190520170647	05/20/19 17:06	1	
CCB	LACHAT3052019170804	20190520170804	05/20/19 17:08	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R052019_2

Analyte	**Std Conc** mg/L	**Result** mg/L	**Rec.** %	**Std Conc** mg/L	**Result** mg/L	**Rec.** %
PHOSPHORUS,TOTAL	5	4.87679	97.50	2.50	2.50139	100
File ID:		20190514153648			20190514153805	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R052019_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
PHOSPHORUS,TOTAL	1	1.03397	103	0.50	.53003	106
File ID:		20190514153922			20190514154038	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R052019_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
PHOSPHORUS,TOTAL	0.10	.139976	140	0	-.045616	
File ID:		20190514154155			20190514154311	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 15:36
Instrument ID:	LACHAT3	**Calibration (end) date/time:**	05/14/19 15:43
Analytical Method:	365.4	**Analytical Run:**	R052019_2

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
PHOSPHORUS,TOTAL	5	1	0.99955			0.222	-0.00721	

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

410.4 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190521124248	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/21/19 09:17
Analytical Batch:	WG1284199	**Analysis Date/Time:**	05/21/19 12:42
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	24.8		3.00	10.0	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413198-1

Lab Sample ID:	R3413198-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190521123757	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/21/19 09:17
Analytical Batch:	WG1284199	**Analysis Date/Time:**	05/21/19 12:37
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	U		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413198-2

Lab Sample ID:	R3413198-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190521123806	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/21/19 09:17
Analytical Batch:	WG1284199	**Analysis Date/Time:**	05/21/19 12:38
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	226		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413198-3

Lab Sample ID:	R3413198-3	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/14/19 13:10
Lab File ID:	20190521123900	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/21/19 09:17
Analytical Batch:	WG1284199	**Analysis Date/Time:**	05/21/19 12:39
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	65.5		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413198-6

Lab Sample ID:	R3413198-6	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/14/19 14:15
Lab File ID:	20190521124218	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/21/19 09:17
Analytical Batch:	WG1284199	**Analysis Date/Time:**	05/21/19 12:42
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	10.2		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413198-4

Lab Sample ID:	R3413198-4	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/14/19 13:10
Lab File ID:	20190521124117	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/21/19 09:17
Analytical Batch:	WG1284199	**Analysis Date/Time:**	05/21/19 12:41
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	462		3.00	10	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413198-5

Lab Sample ID:	R3413198-5	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/14/19 13:10
Lab File ID:	20190521124127	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/21/19 09:17
Analytical Batch:	WG1284199	**Analysis Date/Time:**	05/21/19 12:41
Dilution Factor:	1	**Prep Method:**	410.1
Analytical Method:	410.4	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	2.0 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2.0 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
COD	E-10117	452		3.00	10	10.0

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1284199
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	DR6000-1052119123748				DR6000-1052119124002				DR6000-1052119124149			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
COD	400	398.3	99.60		400	396.06	99		400	396.38	99.10	

ICV Limits: 95 - 105 CCV Limits: 95 - 105

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1284199
Concentration Units:	mg/L		

CCV

Sample ID: DR6000-1052119124334

Analyte	True	Found	%R	%RSD
COD	400	397.95	99.50	

ICV Limits: 95 - 105 CCV Limits: 95 - 105

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1284199

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190521123757		20190521124011		20190521124158		20190521124343	
Analyte	mg/l		mg/L		mg/L		mg/L	
COD	U		-4.603		-3.629		-3.279	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413198-4
R3413198-5

MS Sample / File ID:	R3413198-4 / 20190521124117	**SDG:**	L1099840
MSD Sample / File ID:	R3413198-5 / 20190521124127	**Analytical Batch:**	WG1284199
OS Sample / File ID:	L1099137-02 / 20190521124109	**Matrix:**	WW
Instrument ID:	DR6000-1		
Analytical Method:	410.4		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
COD	400	14.5	462	452	112	109	1	80.0 - 120	2.19	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3413198-3

DUP Sample / File ID:	R3413198-3 / 20190521123900	**SDG:**	L1099840
OS Sample / File ID:	L1098829-01 / 20190521123845	**Analytical Batch:**	WG1284199
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	410.4	**Matrix:**	WW

Analyte	OS Result	DUP Result	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*
COD	65.4	65.5	0.110	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3413198-6

DUP Sample / File ID:	R3413198-6 / 20190521124218	**SDG:**	L1099840
OS Sample / File ID:	L1099137-04 / 20190521124209	**Analytical Batch:**	WG1284199
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	410.4	**Matrix:**	WW

Analyte	OS Result	DUP Result	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*
COD	ND	10.2	4.60	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3413198-2

LCS Sample / File ID:	R3413198-2 / 20190521123806	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1284199
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	410.4	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
COD	222	226		102		90.0 - 110		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	410.4
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/21/19 11:00
Analytical Run:	WG1242469	**Calibration End Date:**	02/21/19 11:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.000	33	02/21/19 11:00	1	
CAL	10.000	34	02/21/19 11:00	1	
CAL	50.000	35	02/21/19 11:00	1	
CAL	100.000	36	02/21/19 11:00	1	
CAL	400.000	37	02/21/19 11:00	1	
CAL	500.000	38	02/21/19 11:00	1	
CAL	1000.000	39	02/21/19 11:00	1	

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	410.4
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/21/19 11:00
Analytical Run:	WG1284199	**Calibration End Date:**	02/21/19 11:00

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-1052119123748	20190521123748	05/21/19 12:37	1	
BLANK	R3413198-1	20190521123757	05/21/19 12:37	1	WG1284199
LCS	R3413198-2	20190521123806	05/21/19 12:38	1	WG1284199
OS	L1098829-01	20190521123845	05/21/19 12:38	1	WG1284199
DUP	R3413198-3	20190521123900	05/21/19 12:39	1	WG1284199
CCV	DR6000-1052119124002	20190521124002	05/21/19 12:40	1	
CCB	DR6000-1052119124011	20190521124011	05/21/19 12:40	1	
OS	L1099137-02	20190521124109	05/21/19 12:41	1	WG1284199
MS	R3413198-4	20190521124117	05/21/19 12:41	1	WG1284199
MSD	R3413198-5	20190521124127	05/21/19 12:41	1	WG1284199
CCV	DR6000-1052119124149	20190521124149	05/21/19 12:41	1	
CCB	DR6000-1052119124158	20190521124158	05/21/19 12:41	1	
OS	L1099137-04	20190521124209	05/21/19 12:42	1	WG1284199
DUP	R3413198-6	20190521124218	05/21/19 12:42	1	WG1284199
WW-20190515-002-DAY 13	L1099840-01	20190521124248	05/21/19 12:42	1	WG1284199
CCV	DR6000-1052119124334	20190521124334	05/21/19 12:43	1	
CCB	DR6000-1052119124343	20190521124343	05/21/19 12:43	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1284199

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
COD	10	9.600413	96	50	48.674867	97.30
File ID:		34			35	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1284199

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
COD	100	105.115745	105	400	402.515756	101
File ID:		36			37	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1284199

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
COD	500	498.031088	99.60	1000	999.486581	99.90
File ID:		38			39	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1099840	**Calibration (begin) date/time:**	02/21/19 11:00
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/21/19 11:00
Analytical Method:	410.4	**Analytical Run:**	WG1284199

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
COD	0	5	0.999969			2170.803	-3.424405	

Calibration Type

0 = Linear Regression

Weightage

5 = None

4500CN E-2011 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-02	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190522134213	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/22/19 08:28
Analytical Batch:	WG1284201	**Analysis Date/Time:**	05/22/19 13:42
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.0118	B P1	0.00180	0.00500	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413741-1

Lab Sample ID:	R3413741-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190522120724	**Received Date/Time:**	_____
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/22/19 08:28
Analytical Batch:	WG1284201	**Analysis Date/Time:**	05/22/19 12:07
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.00315	J	0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413741-3

Lab Sample ID:	R3413741-3	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/08/19 10:40
Lab File ID:	20190522121230	**Received Date/Time:**	05/09/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/22/19 08:28
Analytical Batch:	WG1284201	**Analysis Date/Time:**	05/22/19 12:12
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.000		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413741-9

Lab Sample ID:	R3413741-9	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190522163721	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/22/19 08:28
Analytical Batch:	WG1284201	**Analysis Date/Time:**	05/22/19 16:37
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.000	P1	0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413741-2

Lab Sample ID:	R3413741-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190522120825	**Received Date/Time:**	_____
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/22/19 08:28
Analytical Batch:	WG1284201	**Analysis Date/Time:**	05/22/19 12:08
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.102		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413741-4

Lab Sample ID:	R3413741-4	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 08:10
Lab File ID:	20190522133054	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/22/19 08:28
Analytical Batch:	WG1284201	**Analysis Date/Time:**	05/22/19 13:30
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.160		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413741-6

Lab Sample ID:	R3413741-6	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/09/19 11:00
Lab File ID:	20190522133703	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/22/19 08:28
Analytical Batch:	WG1284201	**Analysis Date/Time:**	05/22/19 13:37
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.0511	J6	0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413741-5

Lab Sample ID:	R3413741-5	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 08:10
Lab File ID:	20190522133358	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/22/19 08:28
Analytical Batch:	WG1284201	**Analysis Date/Time:**	05/22/19 13:33
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.160		0.00180	0.0050	0.00500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413741-7

Lab Sample ID:	R3413741-7	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/09/19 11:00
Lab File ID:	20190522133805	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	LACHAT4	**Preparation Date/Time:**	05/22/19 08:28
Analytical Batch:	WG1284201	**Analysis Date/Time:**	05/22/19 13:38
Dilution Factor:	1	**Prep Method:**	9012B/4500 CN E2011/
Analytical Method:	4500CN E-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	50 mL
Total Solids (%):	_____	**Final Wt/Vol:**	50 mL

Analyte	**CAS**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
		mg/l		*mg/l*	*mg/l*	*mg/l*
Cyanide	57-12-5	0.0960	J3	0.00180	0.0050	0.00500

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R052219_2
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	LACHAT4052219120622				LACHAT4052219121737				LACHAT4052219131938			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CYANIDE	0.10	0.1010	101		0.10	0.1010	101		0.10	0.1010	101	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R052219_2
Concentration Units:	mg/L		

	CCV				**CCV**				**CCV**			
Sample ID:	LACHAT4052219133156				LACHAT4052219134314				LACHAT4052219163822			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
CYANIDE	0.10	0.1020	102		0.10	0.1020	102		0.10	0.1040	104	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R052219_2

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190522120724		20190522121838		20190522132039		20190522133257	
Analyte	mg/l		mg/L		mg/L		mg/L	
CYANIDE	0.00315	J	-0.0006510		0.001870		0.002110	

3-IN

BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R052219_2

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190522134416		20190522163923	
Analyte	mg/L		mg/L	
CYANIDE	0.003720		-0.001660	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-02

SAMPLE NO.:
R3413741-4
R3413741-5

MS Sample / File ID:	R3413741-4 / 20190522133054	**SDG:**	L1099840
MSD Sample / File ID:	R3413741-5 / 20190522133358	**Analytical Batch:**	WG1284201
OS Sample / File ID:	L1099227-01 / 20190522132952	**Matrix:**	WW
Instrument ID:	LACHAT4		
Analytical Method:	4500CN E-2011		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Cyanide	0.100	0.0731	0.160	0.160	86.9	86.9	1	75.0 - 125	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-02

SAMPLE NO.:
R3413741-6
R3413741-7

MS Sample / File ID:	R3413741-6 / 20190522133703	**SDG:**	L1099840
MSD Sample / File ID:	R3413741-7 / 20190522133805	**Analytical Batch:**	WG1284201
OS Sample / File ID:	L1099236-01 / 20190522133602	**Matrix:**	WW
Instrument ID:	LACHAT4		
Analytical Method:	4500CN E-2011		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Cyanide	0.100	0.00290	0.0511	0.0960	48.2*	93.1	1	75.0 - 125	61.0*	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES
L1099840-02

SAMPLE NO.:
R3413741-3

DUP Sample / File ID:	R3413741-3 / 20190522121230	**SDG:**	L1099840
OS Sample / File ID:	L1096884-02 / 20190522121129	**Analytical Batch:**	WG1284201
Instrument ID:	LACHAT4	**Dilution Factor:**	1
Analytical Method:	4500CN E-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Cyanide	ND	0.000	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES
L1099840-02

SAMPLE NO.:
R3413741-9

DUP Sample / File ID:	R3413741-9 / 20190522163721	**SDG:**	L1099840
OS Sample / File ID:	L1099840-02 / 20190522134213	**Analytical Batch:**	WG1284201
Instrument ID:	LACHAT4	**Dilution Factor:**	1
Analytical Method:	4500CN E-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Cyanide	0.0118	0.000	200*	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-02

SAMPLE NO.:
R3413741-2

LCS Sample / File ID:	R3413741-2 / 20190522120825	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1284201
Instrument ID:	LACHAT4	**Dilution Factor:**	1
Analytical Method:	4500CN E-2011	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Cyanide	0.100	0.102		102		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	4500CN E-2011
Instrument ID:	LACHAT4	**Calibration Start Date:**	05/08/19 12:20
Analytical Run:	CAL050819	**Calibration End Date:**	05/08/19 12:26

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.2	20190508122010	05/08/19 12:20	1	
CAL	0.1	20190508122112	05/08/19 12:21	1	
CAL	0.05	20190508122213	05/08/19 12:22	1	
CAL	0.01	20190508122314	05/08/19 12:23	1	
CAL	0.005	20190508122415	05/08/19 12:24	1	
CAL	0.0025	20190508122517	05/08/19 12:25	1	
CAL	0.00	20190508122617	05/08/19 12:26	1	

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	4500CN E-2011
Instrument ID:	LACHAT4	**Calibration Start Date:**	05/08/19 12:20
Analytical Run:	R052219_2	**Calibration End Date:**	05/08/19 12:26

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	LACHAT4052219120622	20190522120622	05/22/19 12:06	1	
BLANK	R3413741-1	20190522120724	05/22/19 12:07	1	WG1284201
LCS	R3413741-2	20190522120825	05/22/19 12:08	1	WG1284201
OS	L1096884-02	20190522121129	05/22/19 12:11	1	WG1284201
DUP	R3413741-3	20190522121230	05/22/19 12:12	1	WG1284201
CCV	LACHAT4052219121737	20190522121737	05/22/19 12:17	1	
CCB	LACHAT4052219121838	20190522121838	05/22/19 12:18	1	
CCV	LACHAT4052219131938	20190522131938	05/22/19 13:19	1	
CCB	LACHAT4052219132039	20190522132039	05/22/19 13:20	1	
OS	L1099227-01	20190522132952	05/22/19 13:29	1	WG1284201
MS	R3413741-4	20190522133054	05/22/19 13:30	1	WG1284201
CCV	LACHAT4052219133156	20190522133156	05/22/19 13:31	1	
CCB	LACHAT4052219133257	20190522133257	05/22/19 13:32	1	
MSD	R3413741-5	20190522133358	05/22/19 13:33	1	WG1284201
OS	L1099236-01	20190522133602	05/22/19 13:36	1	WG1284201
MS	R3413741-6	20190522133703	05/22/19 13:37	1	WG1284201
MSD	R3413741-7	20190522133805	05/22/19 13:38	1	WG1284201
WW-20190515-002-DAY 13	L1099840-02	20190522134213	05/22/19 13:42	1	WG1284201
CCV	LACHAT4052219134314	20190522134314	05/22/19 13:43	1	
CCB	LACHAT4052219134416	20190522134416	05/22/19 13:44	1	
DUP	R3413741-9	20190522163721	05/22/19 16:37	1	WG1284201
CCV	LACHAT4052219163822	20190522163822	05/22/19 16:38	1	
CCB	LACHAT4052219163923	20190522163923	05/22/19 16:39	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R052219_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
CYANIDE	0.20	.19801	99	0.10	.10126	101
File ID:		20190508122010			20190508122112	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R052219_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
CYANIDE	0.05	.05052	101	0.01	.009154	91.50
File ID:		20190508122213			20190508122314	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R052219_2

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%	mg/L	mg/L	%
CYANIDE	0.0050	.005284	106	0.0025	.0028846	115
File ID:		20190508122415			20190508122517	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R052219_2

Analyte	**Std Conc**	**Result**	**Rec.**
	mg/L	mg/L	%
CYANIDE	0	-.0003662	
File ID:		20190508122617	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/08/19 12:20
Instrument ID:	LACHAT4	**Calibration (end) date/time:**	05/08/19 12:26
Analytical Method:	4500CN E-2011	**Analytical Run:**	R052219_2

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
CYANIDE	5	1	0.99996			0.043	-0.00108	

Calibration Type

5 = Weighted Linear Regression

Weightage

1 = Inverse Concentration

4500S2 D-2011 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190518134744	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/18/19 13:47
Analytical Batch:	WG1283322	**Analysis Date/Time:**	05/18/19 13:47
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	U	J6	0.00650	0.0500	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412566-1

Lab Sample ID:	R3412566-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	20190518134713	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/18/19 13:47
Analytical Batch:	WG1283322	**Analysis Date/Time:**	05/18/19 13:47
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011/9030B/9034
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	U		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412566-2

Lab Sample ID:	R3412566-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	20190518134722	**Received Date/Time:**	_____
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/18/19 13:47
Analytical Batch:	WG1283322	**Analysis Date/Time:**	05/18/19 13:47
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011/9030B/9034
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	0.507		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412566-5

Lab Sample ID:	R3412566-5	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/16/19 15:15
Lab File ID:	20190518134832	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/18/19 13:48
Analytical Batch:	WG1283322	**Analysis Date/Time:**	05/18/19 13:48
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	0.000		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412566-6

Lab Sample ID:	R3412566-6	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/15/19 10:30
Lab File ID:	20190518135359	**Received Date/Time:**	05/17/19 16:41
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/18/19 13:53
Analytical Batch:	WG1283322	**Analysis Date/Time:**	05/18/19 13:53
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	0.000		0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412566-3

Lab Sample ID:	R3412566-3	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190518134805	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/18/19 13:48
Analytical Batch:	WG1283322	**Analysis Date/Time:**	05/18/19 13:48
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	0.695	J6	0.00650	0.05	0.0500

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412566-4

Lab Sample ID:	R3412566-4	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190518134810	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	DR6000-1	**Preparation Date/Time:**	05/18/19 13:48
Analytical Batch:	WG1283322	**Analysis Date/Time:**	05/18/19 13:48
Dilution Factor:	1	**Prep Method:**	4500S2 D-2011
Analytical Method:	4500S2 D-2011	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	7.5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	7.5 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Sulfide	18496-25-8	0.695	J6	0.00650	0.05	0.0500

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1283322
Concentration Units:	mg/L		

	ICV				**CCV**				**CCV**			
Sample ID:	DR6000-1051819134704				DR6000-1051819134957				DR6000-1051819135327			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
REACTIVE SULFIDE	1	1.055	106		1	1.055	106		1	1.056	106	
SULFIDE	1	1.055	106		1	1.055	106		1	1.056	106	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1283322
Concentration Units:	mg/L		

CCV

Sample ID: DR6000-1051819135525

Analyte	True	Found	%R	%RSD
REACTIVE SULFIDE	1	1.057	106	
SULFIDE	1	1.057	106	

ICV Limits: 90 - 110 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1283322

Sample ID:	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**BLANK Result**	**BLANK Qual**
File ID:	20190518135004		20190518135335		20190518135532		20190518134713	
Analyte	mg/L		mg/L		mg/L		mg/l	
REACTIVE SULFIDE	-0.02600		-0.02700		-0.02800			
SULFIDE	-0.02600		-0.02700		-0.02800		U	

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3412566-3
R3412566-4

MS Sample / File ID:	R3412566-3 / 20190518134805	**SDG:**	L1099840
MSD Sample / File ID:	R3412566-4 / 20190518134810	**Analytical Batch:**	WG1283322
OS Sample / File ID:	L1099840-01 / 20190518134744	**Matrix:**	WW
Instrument ID:	DR6000-1		
Analytical Method:	4500S2 D-2011		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Sulfide	1.00	U	0.695	0.695	69.5*	69.5*	1	80.0 - 120	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3412566-5

DUP Sample / File ID:	R3412566-5 / 20190518134832	**SDG:**	L1099840
OS Sample / File ID:	L1099869-01 / 20190518134826	**Analytical Batch:**	WG1283322
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	4500S2 D-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
Sulfide	ND	0.000	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3412566-6

DUP Sample / File ID:	R3412566-6 / 20190518135359	**SDG:**	L1099840
OS Sample / File ID:	L1100260-01 / 20190518135354	**Analytical Batch:**	WG1283322
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	4500S2 D-2011	**Matrix:**	WW

Analyte	OS Result	DUP Result	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*
Sulfide	ND	0.000	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3412566-2

LCS Sample / File ID:	R3412566-2 / 20190518134722	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1283322
Instrument ID:	DR6000-1	**Dilution Factor:**	1
Analytical Method:	4500S2 D-2011	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Sulfide	0.500	0.507		101		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	4500S2 D-2011
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/20/19 14:30
Analytical Run:	WG1239349	**Calibration End Date:**	02/20/19 14:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.0000	11	02/20/19 14:30	1	
CAL	0.0500	12	02/20/19 14:30	1	
CAL	0.1000	13	02/20/19 14:30	1	
CAL	0.5000	14	02/20/19 14:30	1	
CAL	1.0000	15	02/20/19 14:30	1	
CAL	1.5000	16	02/20/19 14:30	1	
CAL	2.0000	17	02/20/19 14:30	1	

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	4500S2 D-2011
Instrument ID:	DR6000-1	**Calibration Start Date:**	02/20/19 14:30
Analytical Run:	WG1283322	**Calibration End Date:**	02/20/19 14:30

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	DR6000-1051819134704	20190518134704	05/18/19 13:47	1	
BLANK	R3412566-1	20190518134713	05/18/19 13:47	1	WG1283322
LCS	R3412566-2	20190518134722	05/18/19 13:47	1	WG1283322
WW-20190515-002-DAY 13	L1099840-01	20190518134744	05/18/19 13:47	1	WG1283322
MS	R3412566-3	20190518134805	05/18/19 13:48	1	WG1283322
MSD	R3412566-4	20190518134810	05/18/19 13:48	1	WG1283322
OS	L1099869-01	20190518134826	05/18/19 13:48	1	WG1283322
DUP	R3412566-5	20190518134832	05/18/19 13:48	1	WG1283322
CCV	DR6000-1051819134957	20190518134957	05/18/19 13:49	1	
CCB	DR6000-1051819135004	20190518135004	05/18/19 13:50	1	
CCV	DR6000-1051819135327	20190518135327	05/18/19 13:53	1	
CCB	DR6000-1051819135335	20190518135335	05/18/19 13:53	1	
OS	L1100260-01	20190518135354	05/18/19 13:53	1	WG1283322
DUP	R3412566-6	20190518135359	05/18/19 13:53	1	WG1283322
CCV	DR6000-1051819135525	20190518135525	05/18/19 13:55	1	
CCB	DR6000-1051819135532	20190518135532	05/18/19 13:55	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1283322

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFIDE	0.05	.047732143	95.50	0.10	.106206325	106
File ID:		12			13	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1283322

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFIDE	0.50	.482540163	96.50	1	1.007308463	101
File ID:		14			15	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1283322

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
SULFIDE	1.50	1.520082059	101	2	1.984876839	99.20
File ID:		16			17	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1099840	**Calibration (begin) date/time:**	02/20/19 14:30
Instrument ID:	DR6000-1	**Calibration (end) date/time:**	02/20/19 14:30
Analytical Method:	4500S2 D-2011	**Analytical Run:**	WG1283322

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
SULFIDE	0	5	0.999861			1.499338	0.001253	

Calibration Type

0 = Linear Regression

Weightage

5 = None

504.1 EDB / DBCP

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413293-2

MS Sample / File ID:	R3413293-2 / 0520_91	**SDG:**	L1099840
MSD Sample / File ID:	_____	**Analytical Batch:**	WG1282811
OS Sample / File ID:	L1100011-03 / 0520_92	**Matrix:**	WW
Instrument ID:	SVGC23		
Analytical Method:	504.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*		*%*	*%*		*%*	*%*	*%*
Ethylene Dibromide	0.000100	ND	0.000127		127		1	70.0 - 130		
1,2-Dibromo-3-Chloropropane	0.000100	ND	0.000124		124		1	70.0 - 130		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3413293-4
R3413293-5

LCS Sample / File ID:	R3413293-4 / 0520_A04LFB	**SDG:**	L1099840
LCSD Sample / File ID:	R3413293-5 / 0520_A16LFBD	**Analytical Batch:**	WG1282811
Instrument ID:	SVGC23	**Dilution Factor:**	1
Analytical Method:	504.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Ethylene Dibromide	0.000250	0.000270	0.000281	108	112	70.0 - 130	3.99	20
1,2-Dibromo-3-Chloropropane	0.000250	0.000281	0.000287	112	115	70.0 - 130	2.11	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3C-OR

LABORATORY DUPLICATE

L1099840-01

SAMPLE NO.:
R3413293-3

DUP Sample / File ID:	R3413293-3 / 0520_93	**SDG:**	L1099840
OS Sample / File ID:	L1100011-02 / 0520_94	**Analytical Batch:**	WG1282811
Lab File ID:	0520_93	**Dilution Factor:**	1
Instrument ID:	SVGC23	**Matrix:**	WW
Analytical Method:	504.1		

Analyte	OS Result	DUP Result	RPD	RPD Limits
	mg/l	*mg/l*	*%*	*%*
Ethylene Dibromide	ND	0.000	0.000	20
1,2-Dibromo-3-Chloropropane	ND	0.000	0.000	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3413293-1

Lab Sample ID:	R3413293-1	**SDG:**	L1099840
Lab File ID:	0520_90	**Preparation Date/Time:**	05/17/19 09:05
Instrument ID:	SVGC23	**Analysis Date/Time:**	05/21/19 04:35
Analytical Batch:	WG1282811	**Dilution Factor:**	1
Analytical Method:	504.1	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
MS	R3413293-2	SVGC23	0520_91	05/21/19 04:47
OS	L1100011-03	SVGC23	0520_92	05/21/19 04:59
DUP	R3413293-3	SVGC23	0520_93	05/21/19 05:11
OS	L1100011-02	SVGC23	0520_94	05/21/19 05:23
LCS	R3413293-4	SVGC23	0520_A04LFB	05/21/19 07:24
WW-20190515-002-DAY 13	L1099840-01	SVGC23	0520_A06	05/21/19 07:48
LCSD	R3413293-5	SVGC23	0520_A16LFBD	05/21/19 09:50

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0520_A06	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/20/19 08:52
Analytical Batch:	WG1282811	**Analysis Date/Time:**	05/21/19 07:48
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	U		0.00000240	0.0000100	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		0.00000430	0.0000200	0.0000200

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Analytical Method:	504.1		

Analyte	**CS: 0.01**	**CS: 0.02**	**CS: 0.05**	**CS: 0.10**	**CS: 0.25**	**CS: 0.50**
ETHYLENE DIBROMIDE	1.40	1.40	1.40	1.40	1.37	1.40
1,2-DIBROMO-3-CHLOROPROPANE	3.13	3.13	3.13	3.13	3.12	3.12
File ID:	0507A_03	0507A_04	0507A_05	0507A_06	0513_03	0507A_08

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Analytical Method:	504.1		

Analyte	**CS: 0.01**	**CS: 0.02**	**CS: 0.05**	**CS: 0.10**	**CS: 0.25**	**CS: 0.50**
ETHYLENE DIBROMIDE	1.50	1.50	1.50	1.50	1.47	1.50
1,2-DIBROMO-3-CHLOROPROPANE	3.18	3.17	3.17	3.17	3.17	3.17
File ID:	0507A_03	0507A_04	0507A_05	0507A_06	0513_03	0507A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Analytical Method:	504.1		

Analyte	**RRF: 0.01**	**RRF: 0.02**	**RRF: 0.05**	**RRF: 0.10**	**RRF: 0.25**	**RRF: 0.50**
ETHYLENE DIBROMIDE	3424000	3141000	2755000	2895000	2503000	2414000
1,2-DIBROMO-3-CHLOROPROPANE	3567000	3801000	3978000	4817000	4317000	4317000
File ID:	0507A_03	0507A_04	0507A_05	0507A_06	0513_03	0507A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Analytical Method:	504.1		

Analyte	RRF. Avg	%RSD	COD
ETHYLENE DIBROMIDE	2855476	13.43	0.997
1,2-DIBROMO-3-CHLOROPROPANE	4132641	10.77	0.999

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Analytical Method:	504.1		

Analyte	**RRF: 0.01**	**RRF: 0.02**	**RRF: 0.05**	**RRF: 0.10**	**RRF: 0.25**	**RRF: 0.50**
ETHYLENE DIBROMIDE	2002000	1282000	1764000	1815000	1527000	1506000
1,2-DIBROMO-3-CHLOROPROPANE	2499000	3027000	3001000	3126000	2827000	2768000
File ID:	0507A_03	0507A_04	0507A_05	0507A_06	0513_03	0507A_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Analytical Method:	504.1		

Analyte	RRF. Avg	%RSD	COD
ETHYLENE DIBROMIDE	1649330	15.7	0.993
1,2-DIBROMO-3-CHLOROPROPANE	2874567	7.89	

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0520_86-1	**Analysis date/time:**	05/21/19 03:47
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0003024	121	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0003060	122	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0520_86-1	**Analysis date/time:**	05/21/19 03:47
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002821	113	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002756	110	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0520_89-1	**Analysis date/time:**	05/21/19 04:23
Analytical Method:	504.1	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002637	116	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002672	117	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0520_89-1	**Analysis date/time:**	05/21/19 04:23
Analytical Method:	504.1	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002637	105	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002672	107	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0520_A04-1	**Analysis date/time:**	05/21/19 07:24
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002809	123	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002705	114	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0520_A04-1	**Analysis date/time:**	05/21/19 07:24
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002809	112	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002705	108	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0520_A16-1	**Analysis date/time:**	05/21/19 09:50
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002868	119	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002810	121	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0520_A16-1	**Analysis date/time:**	05/21/19 09:50
Analytical Method:	504.1	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000250	0.0002868	115	70 - 130
ETHYLENE DIBROMIDE	0.000250	0.0002810	112	70 - 130

7F-OR

REPORTING LEVEL VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 1	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0520_88-1	**Analysis date/time:**	05/21/19 04:11
Analytical Method:	504.1		

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000010	0.000007066	70.70	60 - 140
ETHYLENE DIBROMIDE	0.000010	0.000009649	96.50	60 - 140

7F-OR

REPORTING LEVEL VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/07/19 17:39
Instrument ID:	SVGC23 - 2	**Calibration (end) date/time:**	05/13/19 12:59
Lab File ID:	0520_88-1	**Analysis date/time:**	05/21/19 04:11
Analytical Method:	504.1		

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
1,2-DIBROMO-3-CHLOROPROPANE	0.000010	0.00001277	128	60 - 140
ETHYLENE DIBROMIDE	0.000010	0.00001191	119	60 - 140

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1099840	**Analytical Method:**	504.1
Instrument ID:	SVGC23	**Calibration Start Date:**	05/07/19 17:39
		Calibration End Date:	05/13/19 12:59

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.01	0507A_03	05/07/19 17:39	1	
CAL	0.02	0507A_04	05/07/19 17:58	1	
CAL	0.05	0507A_05	05/07/19 18:10	1	
CAL	0.10	0507A_06	05/07/19 18:22	1	
CAL	0.50	0507A_08	05/07/19 18:47	1	
CAL	0.25	0513_03	05/13/19 12:59	1	
CCV	SVGC230520190520_86-1471812	0520_86-1	05/21/19 03:47	1	
RL	SVGC230520190520_88-1471812	0520_88-1	05/21/19 04:11	1	
ICV	SVGC230520190520_89-1471812	0520_89-1	05/21/19 04:23	1	
BLANK	R3413293-1	0520_90	05/21/19 04:35	1	WG1282811
MS	R3413293-2	0520_91	05/21/19 04:47	1	WG1282811
OS	L1100011-03	0520_92	05/21/19 04:59	1	WG1282811
DUP	R3413293-3	0520_93	05/21/19 05:11	1	WG1282811
OS	L1100011-02	0520_94	05/21/19 05:23	1	WG1282811
CCV	SVGC230520190520_A04-1471812	0520_A04-1	05/21/19 07:24	1	
LCS	R3413293-4	0520_A04LFB	05/21/19 07:24	1	WG1282811
WW-20190515-002-DAY 13	L1099840-01	0520_A06	05/21/19 07:48	1	WG1282811
CCV	SVGC230520190520_A16-1471812	0520_A16-1	05/21/19 09:50	1	
LCSD	R3413293-5	0520_A16LFBD	05/21/19 09:50	1	WG1282811

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413293-1

Lab Sample ID:	R3413293-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0520_90	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/17/19 09:05
Analytical Batch:	WG1282811	**Analysis Date/Time:**	05/21/19 04:35
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	U		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413293-3

Lab Sample ID:	R3413293-3	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/16/19 12:35
Lab File ID:	0520_93	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/20/19 08:52
Analytical Batch:	WG1282811	**Analysis Date/Time:**	05/21/19 05:11
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	0	0.000		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	0	0.000		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413293-4

Lab Sample ID:	R3413293-4	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0520_A04LFB	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/17/19 09:05
Analytical Batch:	WG1282811	**Analysis Date/Time:**	05/21/19 07:24
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	1.48	0.000270		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.17	0.000281		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413293-5

Lab Sample ID:	R3413293-5	**SDG:**	L1099840
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0520_A16LFBD	**Received Date/Time:**	_____
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/17/19 09:05
Analytical Batch:	WG1282811	**Analysis Date/Time:**	05/21/19 09:50
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	1.48	0.000281		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.17	0.000287		0.00000430	0.000020	0.0000200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413293-2

Lab Sample ID:	R3413293-2	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/16/19 13:25
Lab File ID:	0520_91	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	SVGC23	**Preparation Date/Time:**	05/20/19 08:52
Analytical Batch:	WG1282811	**Analysis Date/Time:**	05/21/19 04:47
Dilution Factor:	1	**Prep Method:**	8011/504.1
Analytical Method:	504.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	35 mL
Total Solids (%):	_____	**Final Wt/Vol:**	2 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene Dibromide	106-93-4	1.47	0.000127		0.00000240	0.000010	0.0000100
1,2-Dibromo-3-Chloropropane	96-12-8	3.17	0.000124		0.00000430	0.000020	0.0000200

5310 B-2011 Wet Chemistry

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	20190517141612	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	TOC3	**Preparation Date/Time:**	05/17/19 14:16
Analytical Batch:	WG1282843	**Analysis Date/Time:**	05/17/19 14:16
Dilution Factor:	1	**Prep Method:**	5310 B-2011
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)		3.15		0.102	1.00	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412691-1

Lab Sample ID:	R3412691-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	
Lab File ID:	20190517132315	**Received Date/Time:**	
Instrument ID:	TOC3	**Preparation Date/Time:**	05/17/19 13:23
Analytical Batch:	WG1282843	**Analysis Date/Time:**	05/17/19 13:23
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)		0.164	J	0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412691-2

Lab Sample ID:	R3412691-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	
Lab File ID:	20190517135752	**Received Date/Time:**	
Instrument ID:	TOC3	**Preparation Date/Time:**	05/17/19 13:57
Analytical Batch:	WG1282843	**Analysis Date/Time:**	05/17/19 13:57
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)		80.4		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412691-3

Lab Sample ID:	R3412691-3	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/14/19 13:15
Lab File ID:	20190517145032	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/17/19 14:50
Analytical Batch:	WG1282843	**Analysis Date/Time:**	05/17/19 14:50
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)		4.65		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412691-6

Lab Sample ID:	R3412691-6	**SDG:**	L1099840
Client Sample ID:	DUP	**Collected Date/Time:**	05/15/19 12:35
Lab File ID:	20190517205656	**Received Date/Time:**	05/16/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/17/19 20:56
Analytical Batch:	WG1282843	**Analysis Date/Time:**	05/17/19 20:56
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)		1.20		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412691-4

Lab Sample ID:	R3412691-4	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 09:30
Lab File ID:	20190517175952	**Received Date/Time:**	05/16/19 08:00
Instrument ID:	TOC3	**Preparation Date/Time:**	05/17/19 17:59
Analytical Batch:	WG1282843	**Analysis Date/Time:**	05/17/19 17:59
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)		59.3		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412691-7

Lab Sample ID:	R3412691-7	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 07:55
Lab File ID:	20190517230348	**Received Date/Time:**	05/16/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/17/19 23:03
Analytical Batch:	WG1282843	**Analysis Date/Time:**	05/17/19 23:03
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)		50.4		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412691-5

Lab Sample ID:	R3412691-5	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/15/19 09:30
Lab File ID:	20190517181638	**Received Date/Time:**	05/16/19 08:00
Instrument ID:	TOC3	**Preparation Date/Time:**	05/17/19 18:16
Analytical Batch:	WG1282843	**Analysis Date/Time:**	05/17/19 18:16
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)		59.3		0.102	1	1.00

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412691-8

Lab Sample ID:	R3412691-8	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/15/19 07:55
Lab File ID:	20190517232411	**Received Date/Time:**	05/16/19 08:45
Instrument ID:	TOC3	**Preparation Date/Time:**	05/17/19 23:24
Analytical Batch:	WG1282843	**Analysis Date/Time:**	05/17/19 23:24
Dilution Factor:	1	**Prep Method:**	9060A
Analytical Method:	5310 B-2011	**Sample Vol Used:**	25 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)		51.5		0.102	1	1.00

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	051719
Concentration Units:	mg/L		

	ICV				**SSCCV**				**CCV**			
Sample ID:	TOC30517191308				TOC30517191623				TOC30517191655			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
TOC (TOTAL ORGANIC CARBON)	50	54.31	109		75	78.71	105		50	52.56	105	

ICV Limits: 90 - 110 SSCCV Limits: 85 - 115 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	051719
Concentration Units:	mg/L		

	SSCCV				**CCV**				**SSCCV**			
Sample ID:	TOC30517191954				TOC30517192026				TOC30517192341			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
TOC (TOTAL ORGANIC CARBON)	75	77.24	103		50	52.14	104		75	77.73	104	

ICV Limits: 90 - 110 SSCCV Limits: 85 - 115 CCV Limits: 90 - 110

2-IN

CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	051719
Concentration Units:	mg/L		

CCV

Sample ID: TOC30518190013

Analyte	True	Found	%R	%RSD
TOC (TOTAL ORGANIC CARBON)	50	51.96	104	

ICV Limits: 90 - 110 SSCCV Limits: 85 - 115 CCV Limits: 90 - 110

3-IN BLANKS

SDG:	L1099840	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	051719

Sample ID:	**BLANK Result**	**BLANK Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**	**CCB Result**	**CCB Qual**
File ID:	20190517132315		20190517171115		20190517204220		20190518002943	
Analyte	mg/l		mg/L		mg/L		mg/L	
TOC (TOTAL ORGANIC CARBON)	0.164	J	0.2386	U	0.2138	U	0.2583	U

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3412691-4
R3412691-5

MS Sample / File ID:	R3412691-4 / 20190517175952	**SDG:**	L1099840
MSD Sample / File ID:	R3412691-5 / 20190517181638	**Analytical Batch:**	WG1282843
OS Sample / File ID:	L1099372-04 / 20190517174258	**Matrix:**	WW
Instrument ID:	TOC3		
Analytical Method:	5310 B-2011		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
TOC (Total Organic Carbon)	50.0	8.56	59.3	59.3	102	101	1	80.0 - 120	0.0169	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3412691-7
R3412691-8

MS Sample / File ID:	R3412691-7 / 20190517230348	**SDG:**	L1099840
MSD Sample / File ID:	R3412691-8 / 20190517232411	**Analytical Batch:**	WG1282843
OS Sample / File ID:	L1099446-04 / 20190517224702	**Matrix:**	WW
Instrument ID:	TOC3		
Analytical Method:	5310 B-2011		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
TOC (Total Organic Carbon)	50.0	ND	50.4	51.5	99.0	101	1	80.0 - 120	2.08	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3412691-3

DUP Sample / File ID:	R3412691-3 / 20190517145032	**SDG:**	L1099840
OS Sample / File ID:	L1098904-15 / 20190517143505	**Analytical Batch:**	WG1282843
Instrument ID:	TOC3	**Dilution Factor:**	1
Analytical Method:	5310 B-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)	4.81	4.65	3.30	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

6-IN

DUPLICATES

L1099840-01

SAMPLE NO.:
R3412691-6

DUP Sample / File ID:	R3412691-6 / 20190517205656	**SDG:**	L1099840
OS Sample / File ID:	L1099422-05 / 20190517193745	**Analytical Batch:**	WG1282843
Instrument ID:	TOC3	**Dilution Factor:**	1
Analytical Method:	5310 B-2011	**Matrix:**	WW

Analyte	**OS Result**	**DUP Result**	**RPD**	**RPD Limits**
	mg/l	*mg/l*	*mg/l*	*mg/l*
TOC (Total Organic Carbon)	1.27	1.20	5.34	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3412691-2

LCS Sample / File ID:	R3412691-2 / 20190517135752	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1282843
Instrument ID:	TOC3	**Dilution Factor:**	1
Analytical Method:	5310 B-2011	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
TOC (Total Organic Carbon)	75.0	80.4		107		85.0 - 115		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	5310 B-2011
Instrument ID:	TOC3	**Calibration Start Date:**	01/16/19 13:22
Analytical Run:	011619	**Calibration End Date:**	01/16/19 14:50

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0	20190116132253	01/16/19 13:22	1	
CAL	1	20190116134038	01/16/19 13:40	1	
CAL	5	20190116135423	01/16/19 13:54	1	
CAL	25	20190116140929	01/16/19 14:09	1	
CAL	50	20190116142907	01/16/19 14:29	1	
CAL	100	20190116145010	01/16/19 14:50	1	

12-IN

ANALYSIS LOG

SDG:	L1099840	**Analytical Method:**	5310 B-2011
Instrument ID:	TOC3	**Calibration Start Date:**	01/16/19 13:22
Analytical Run:	051719	**Calibration End Date:**	01/16/19 14:50

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
ICV	TOC30517191308	20190517130815	05/17/19 13:08	1	
BLANK	R3412691-1	20190517132315	05/17/19 13:23	1	WG1282843
RL	TOC30517191340	20190517134056	05/17/19 13:40	1	
LCS	R3412691-2	20190517135752	05/17/19 13:57	1	WG1282843
WW-20190515-002-DAY 13	L1099840-01	20190517141612	05/17/19 14:16	1	WG1282843
OS	L1098904-15	20190517143505	05/17/19 14:35	1	WG1282843
DUP	R3412691-3	20190517145032	05/17/19 14:50	1	WG1282843
SSCCV	TOC30517191623	20190517162334	05/17/19 16:23	1	
CCV	TOC30517191655	20190517165549	05/17/19 16:55	1	
CCB	TOC30517191711	20190517171115	05/17/19 17:11	1	
OS	L1099372-04	20190517174258	05/17/19 17:42	1	WG1282843
MS	R3412691-4	20190517175952	05/17/19 17:59	1	WG1282843
MSD	R3412691-5	20190517181638	05/17/19 18:16	1	WG1282843
OS	L1099422-05	20190517193745	05/17/19 19:37	1	WG1282843
SSCCV	TOC30517191954	20190517195459	05/17/19 19:54	1	
CCV	TOC30517192026	20190517202656	05/17/19 20:26	1	
CCB	TOC30517192042	20190517204220	05/17/19 20:42	1	
DUP	R3412691-6	20190517205656	05/17/19 20:56	1	WG1282843
OS	L1099446-04	20190517224702	05/17/19 22:47	1	WG1282843
MS	R3412691-7	20190517230348	05/17/19 23:03	1	WG1282843
MSD	R3412691-8	20190517232411	05/17/19 23:24	1	WG1282843
SSCCV	TOC30517192341	20190517234137	05/17/19 23:41	1	
CCV	TOC30518190013	20190518001352	05/18/19 00:13	1	
CCB	TOC30518190029	20190518002943	05/18/19 00:29	1	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	051719

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
TOC (TOTAL ORGANIC CARBON)	0	.9501209		1	1.94124	194
File ID:		20190116132253			20190116134038	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	051719

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
TOC (TOTAL ORGANIC CARBON)	5	5.547043	111	25	23.6811	94.70
File ID:		20190116135423			20190116140929	

15-IN

INITIAL CALIBRATION RECOVERY

SDG:	L1099840	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	051719

Analyte	**Std Conc**	**Result**	**Rec.**	**Std Conc**	**Result**	**Rec.**
	mg/l	mg/l	%	mg/l	mg/l	%
TOC (TOTAL ORGANIC CARBON)	50	47.17507	94.40	100	101.7054	102
File ID:		20190116142907			20190116145010	

16C-IN

GENERAL CHEMISTRY
INITIAL CALIBRATION

SDG:	L1099840	**Calibration (begin) date/time:**	01/16/19 13:22
Instrument ID:	TOC3	**Calibration (end) date/time:**	01/16/19 14:50
Analytical Method:	5310 B-2011	**Analytical Run:**	051719

Analyte	Cal. Type	Weightage	Corr.	Coef1	Coef2	Slope	Incpt	% RSD
TOC (TOTAL ORGANIC CARBON)	0	5	0.999045			8.912926	-7.467882	

Calibration Type

0 = Linear Regression

Weightage

5 = None

624.1 Volatile Organic Compounds (GC/MS)

2A-OR

SURROGATE RECOVERY

Analytical Method: 624.1 **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	DMC-3 % Rec.	TOT Out
WW-20190515-002 -DAY 13	L1099840-01	VOCMS32	0517_29	95.1	140*	89.2	1

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Toluene-d8	80.0 - 120
DMC-2	1,2-Dichloroethane-d4	70.0 - 130
DMC-3	4-Bromofluorobenzene	80.0 - 120

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

2A-OR

SURROGATE RECOVERY

Analytical Method: 624.1 **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	DMC-3 % Rec.	TOT Out
BLANK	R3412442-3	VOCMS32	0517_06	97.5	93.7	122	0
LCS	R3412442-1	VOCMS32	0517_03	97.3	95.7	121	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Toluene-d8	80.0 - 120
DMC-2	4-Bromofluorobenzene	80.0 - 120
DMC-3	1,2-Dichloroethane-d4	70.0 - 130

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3412442-1

LCS Sample / File ID:	R3412442-1 / 0517_03	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1283043
Instrument ID:	VOCMS32	**Dilution Factor:**	1
Analytical Method:	624.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Acetone	0.125	0.0921		73.7		10.0 - 160		
Acrylonitrile	0.125	0.0843		67.5		60.0 - 140		
Bromobenzene	0.0250	0.0210		84.1		79.0 - 120		
Bromodichloromethane	0.0250	0.0250		99.9		70.0 - 135		
Bromochloromethane	0.0250	0.0248		99.2		76.0 - 122		
Bromoform	0.0250	0.0244		97.4		70.0 - 130		
Bromomethane	0.0250	0.0236		94.5		15.0 - 185		
n-Butylbenzene	0.0250	0.0227		90.7		72.0 - 126		
sec-Butylbenzene	0.0250	0.0222		88.8		74.0 - 121		
tert-Butylbenzene	0.0250	0.0239		95.5		75.0 - 122		
Carbon disulfide	0.0250	0.0182		72.9		55.0 - 127		
Carbon tetrachloride	0.0250	0.0297		119		70.0 - 130		
Chlorobenzene	0.0250	0.0242		96.9		65.0 - 135		
Chlorodibromomethane	0.0250	0.0238		95.4		70.0 - 135		
Chloroethane	0.0250	0.0215		86.1		40.0 - 160		
Chloroform	0.0250	0.0249		99.7		70.0 - 135		
Chloromethane	0.0250	0.0223		89.2		0.100 - 205		
2-Chlorotoluene	0.0250	0.0239		95.5		74.0 - 122		
4-Chlorotoluene	0.0250	0.0234		93.7		79.0 - 120		
Benzene	0.0250	0.0213		85.3		65.0 - 135		
Dibromomethane	0.0250	0.0236		94.5		78.0 - 120		
1,2-Dichlorobenzene	0.0250	0.0232		92.6		65.0 - 135		
1,3-Dichlorobenzene	0.0250	0.0215		86.0		70.0 - 130		
1,4-Dichlorobenzene	0.0250	0.0221		88.6		65.0 - 135		
Dichlorodifluoromethane	0.0250	0.0285		114		49.0 - 155		
1,1-Dichloroethane	0.0250	0.0228		91.1		70.0 - 130		
1,2-Dichloroethane	0.0250	0.0268		107		70.0 - 130		
1,1-Dichloroethene	0.0250	0.0201		80.5		50.0 - 150		
cis-1,2-Dichloroethene	0.0250	0.0227		91.0		73.0 - 120		
trans-1,2-Dichloroethene	0.0250	0.0222		88.9		70.0 - 130		
1,2-Dichloropropane	0.0250	0.0224		89.5		35.0 - 165		
1,1-Dichloropropene	0.0250	0.0240		96.0		71.0 - 129		
cis-1,3-Dichloropropene	0.0250	0.0230		92.0		25.0 - 175		
trans-1,3-Dichloropropene	0.0250	0.0230		92.0		50.0 - 150		
2,2-Dichloropropane	0.0250	0.0317		127*		60.0 - 125		
2-Hexanone	0.125	0.0878		70.2		58.0 - 147		
Isopropylbenzene	0.0250	0.0239		95.6		75.0 - 120		
p-Isopropyltoluene	0.0250	0.0228		91.2		74.0 - 126		
2-Butanone (MEK)	0.125	0.0965		77.2		37.0 - 158		
Methylene Chloride	0.0250	0.0214		85.5		60.0 - 140		
4-Methyl-2-pentanone (MIBK)	0.125	0.0965		77.2		59.0 - 143		
Methyl tert-butyl ether	0.0250	0.0221		88.2		64.0 - 123		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3412442-1

LCS Sample / File ID:	R3412442-1 / 0517_03	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1283043
Instrument ID:	VOCMS32	**Dilution Factor:**	1
Analytical Method:	624.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
n-Propylbenzene	0.0250	0.0231		92.4		79.0 - 120		
Styrene	0.0250	0.0232		92.7		78.0 - 124		
1,1,1,2-Tetrachloroethane	0.0250	0.0251		100		75.0 - 122		
1,1,2,2-Tetrachloroethane	0.0250	0.0183		73.3		60.0 - 140		
Ethylbenzene	0.0250	0.0231		92.5		60.0 - 140		
Tetrachloroethene	0.0250	0.0279		112		70.0 - 130		
1,1,2-Trichlorotrifluoroethane	0.0250	0.0237		94.7		61.0 - 136		
1,2,3-Trichlorobenzene	0.0250	0.0254		101		61.0 - 133		
1,2,4-Trichlorobenzene	0.0250	0.0269		108		69.0 - 129		
1,1,1-Trichloroethane	0.0250	0.0278		111		70.0 - 130		
1,1,2-Trichloroethane	0.0250	0.0210		83.9		70.0 - 130		
Trichloroethene	0.0250	0.0235		94.1		65.0 - 135		
Trichlorofluoromethane	0.0250	0.0300		120		50.0 - 150		
1,2,3-Trichloropropane	0.0250	0.0209		83.7		72.0 - 124		
1,2,4-Trimethylbenzene	0.0250	0.0230		92.1		75.0 - 120		
1,3,5-Trimethylbenzene	0.0250	0.0234		93.4		75.0 - 120		
Vinyl chloride	0.0250	0.0241		96.3		5.00 - 195		
o-Xylene	0.0250	0.0223		89.3		78.0 - 120		
m&p-Xylene	0.0500	0.0461		92.1		77.0 - 120		
1,3-Dichloropropene	0.0500	0.0460		92.0		25.0 - 175		
Toluene	0.0250	0.0214		85.4		70.0 - 130		
Xylenes, Total	0.0750	0.0684		91.2		77.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3412442-3

Lab Sample ID:	R3412442-3	**SDG:**	L1099840
Lab File ID:	0517_06	**Preparation Date/Time:**	05/17/19 14:13
Instrument ID:	VOCMS32	**Analysis Date/Time:**	05/17/19 14:13
Analytical Batch:	WG1283043	**Dilution Factor:**	1
Analytical Method:	624.1	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3412442-1	VOCMS32	0517_03	05/17/19 13:14
WW-20190515-002-DAY 13	L1099840-01	VOCMS32	0517_29	05/17/19 22:01

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0313_05-6	**SDG:**	L1099840
Instrument ID:	VOCMS32	**Analytical Method:**	624.1
Analysis Date/Time:	03/13/19 18:13		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	115
96	95	5	9	7
173	174	0	2	0
174	95	50	200	87
175	174	5	9	8
176	174	95	105	101
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-0.04	0.04	0313_08	03/13/19 19:12
STD-0.1	0.1	0313_09	03/13/19 19:31
STD-0.2	0.2	0313_10	03/13/19 19:51
STD-0.5	0.5	0313_11	03/13/19 20:11
STD-1	1	0313_12	03/13/19 20:31
STD-2	2	0313_13	03/13/19 20:50
STD-5.0	5.0	0313_14	03/13/19 21:10
STD-25	25	0313_15	03/13/19 21:30
STD-75	75	0313_16	03/13/19 21:50
STD-100	100	0313_17	03/13/19 22:09
STD-200	200	0313_18	03/13/19 22:29
SSCV	VOCMS320313190313_21-6470434	0313_21-6	03/13/19 23:48
STD-1A	1A	0313_23	03/14/19 00:26
STD-5A	5A	0313_24	03/14/19 00:45
STD-10A	10A	0313_25	03/14/19 01:05
STD-15A	15A	0313_26	03/14/19 01:24
STD-20A	20A	0313_27	03/14/19 01:44

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0424_01-6	**SDG:**	L1099840
Instrument ID:	VOCMS32	**Analytical Method:**	624.1
Analysis Date/Time:	04/24/19 10:09		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	108
96	95	5	9	6
173	174	0	2	1
174	95	50	200	93
175	174	5	9	7
176	174	95	105	100
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-.5	.5	0424_03	04/24/19 10:48
STD-1	1	0424_04	04/24/19 11:07
STD-2	2	0424_05	04/24/19 11:27
STD-5.0	5.0	0424_06	04/24/19 11:46
STD-10	10	0424_07	04/24/19 12:06
STD-20	20	0424_08	04/24/19 12:26

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0517_01T-1	**SDG:**	L1099840
Instrument ID:	VOCMS32	**Analytical Method:**	624.1
Analysis Date/Time:	05/17/19 12:36		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
95	174	50	200	100
96	95	5	9	6
173	174	0	2	0
174	95	50	200	100
175	174	5	9	8
176	174	95	105	97
177	176	5	10	7

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	VOCMS320517190517_02-1470434	0517_02-1	05/17/19 12:55
LCS	R3412442-1	0517_03	05/17/19 13:14
BLANK	R3412442-3	0517_06	05/17/19 14:13
WW-20190515-002-DAY 13	L1099840-01	0517_29	05/17/19 22:01

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	624.1
Instrument ID:	VOCMS32	**Calibration Start Date:**	03/13/19 19:12
Std File:	0517_02-1	**Calibration End Date:**	04/24/19 12:26
		Std Analysis Date:	05/17/19 12:55

Sample ID	File ID	1,4-DCB		8260-CB		8260-FB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		34775	7.92	46754	6.48	107968	4.54
UPPER LIMIT		69550		93508		215936	
LOWER LIMIT		17388		23377		53984	
LCS R3412442-1 WG1283043 1x	0517_03	35077	7.92	47671	6.48	110207	4.54
BLANK R3412442-3 WG1283043 1x	0517_06	33009	7.92	46481	6.48	111484	4.54
L1099840-01 WG1283043 1x	0517_29	25769	7.92	36915	6.48	86121	4.54

1,4-DCB - 8260-1,4-DICHLOROBENZENE-D4 8260-CB - 8260-CHLOROBENZENE-D5
8260-FB - 8260-FLUOROBENZENE

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0517_29	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/17/19 22:01
Analytical Batch:	WG1283043	**Analysis Date/Time:**	05/17/19 22:01
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acetone	67-64-1	3.11	U		0.0100	0.0500	0.0500
Acrylonitrile	107-13-1	0	U		0.00187	0.0100	0.0100
Benzene	71-43-2	4.32	0.000488	J	0.000331	0.00100	0.00100
Bromobenzene	108-86-1	0	U		0.000352	0.00100	0.00100
Bromochloromethane	74-97-5	0	U		0.000520	0.00500	0.00500
Bromodichloromethane	75-27-4	0	U		0.000380	0.00100	0.00100
Bromoform	75-25-2	0	U		0.000469	0.00100	0.00100
Bromomethane	74-83-9	0	U		0.000866	0.00500	0.00500
n-Butylbenzene	104-51-8	0	U		0.000361	0.00100	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000365	0.00100	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000399	0.00100	0.00100
Carbon disulfide	75-15-0	0	U		0.000275	0.00100	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000379	0.00100	0.00100
Chlorobenzene	108-90-7	0	U		0.000348	0.00100	0.00100
Chlorodibromomethane	124-48-1	0	U		0.000327	0.00100	0.00100
Chloroethane	75-00-3	0	U		0.000453	0.00500	0.00500
Chloroform	67-66-3	0	U		0.000324	0.00500	0.00500
Chloromethane	74-87-3	0	U		0.000276	0.00250	0.00250
2-Chlorotoluene	95-49-8	0	U		0.000375	0.00100	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000351	0.00100	0.00100
Cyclohexane	110-82-7	0	U		0.000390	0.00100	0.00100
Dibromomethane	74-95-3	0	U		0.000346	0.00100	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000349	0.00100	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000220	0.00100	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000274	0.00100	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000551	0.00500	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000259	0.00100	0.00100
1,2-Dichloroethane	107-06-2	0	U		0.000361	0.00100	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000398	0.00100	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000260	0.00100	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000396	0.00100	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000306	0.00100	0.00100
2,2-Dichloropropane	594-20-7	0	U	J4	0.000321	0.00100	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000352	0.00100	0.00100
1,3-Dichloropropene	542-75-6	0	U		0.000320	0.00100	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000418	0.00100	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000419	0.00100	0.00100
Ethylbenzene	100-41-4	0	U		0.000384	0.00100	0.00100
2-Hexanone	591-78-6	0	U		0.00382	0.0100	0.0100
Isopropylbenzene	98-82-8	0	U		0.000326	0.00100	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000350	0.00100	0.00100
2-Butanone (MEK)	78-93-3	0	U		0.00393	0.0100	0.0100
Methyl Acetate	79-20-9	0	U		0.00430	0.0200	0.0200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0517_29	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/17/19 22:01
Analytical Batch:	WG1283043	**Analysis Date/Time:**	05/17/19 22:01
Dilution Factor:	1	**Prep Method:**	624.1
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Methyl Cyclohexane	108-87-2	0	U		0.000380	0.00100	0.00100
Methylene Chloride	75-09-2	0	U		0.00100	0.00500	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.71	U		0.00214	0.0100	0.0100
Methyl tert-butyl ether	1634-04-4	0	U		0.000367	0.00100	0.00100
n-Propylbenzene	103-65-1	0	U		0.000349	0.00100	0.00100
Styrene	100-42-5	0	U		0.000307	0.00100	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000385	0.00100	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000130	0.00100	0.00100
Tetrachloroethene	127-18-4	0	U		0.000372	0.00100	0.00100
Toluene	108-88-3	5.50	U		0.000412	0.00100	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.00100	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	U		0.000355	0.00100	0.00100
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000373	0.00100	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000387	0.00100	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000319	0.00100	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000383	0.00100	0.00100
Trichloroethene	79-01-6	0	U		0.000398	0.00100	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.00120	0.00500	0.00500
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000303	0.00100	0.00100
1,2,3-Trichloropropane	96-18-4	0	U		0.000807	0.00250	0.00250
Vinyl chloride	75-01-4	0	U		0.000259	0.00100	0.00100
o-Xylene	95-47-6	0	U		0.000341	0.00100	0.00100
m&p-Xylene	1330-20-7	0	U		0.000719	0.00200	0.00200
Xylenes, Total	1330-20-7	0	U		0.00106	0.00300	0.00300

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 624.1

Instrument ID: VOCMS32

Analyte	**RRF: 0.04**	**RRF: 0.1**	**RRF: 0.2**	**RRF: 0.5**	**RRF: 1**	**RRF: 2**	**RRF: 5.0**	**RRF: 25**	**RRF: 75**	**RRF: 100**
Analysis date/time	03/13/19 19:12	03/13/19 19:31	03/13/19 19:51	03/13/19 20:11	03/13/19 20:31	03/13/19 20:50	03/13/19 21:10	03/13/19 21:30	03/13/19 21:50	03/13/19 22:09
METHYL ACETATE	0.6970	0.4670	0.5680	0.5740	0.5350	0.5480	0.5590	0.5830	0.5740	0.5680
ACRYLONITRILE	0.3220	0.3430	0.3290	0.31	0.2960	0.2830	0.28	0.2890	0.2860	0.2810
METHYL TERT-BUTYL ETHER	1.1280	1.0620	1.0780	1.0120	0.9860	0.9590	0.9510	0.98	0.9280	0.9260
1,1,1-TRICHLOROETHANE	0.5930	0.6850	0.6210	0.5860	0.6190	0.5740	0.5450	0.5810	0.5790	0.5780
4-METHYL-2-PENTANONE (MIBK)	1.8630	1.9040	2.0560	1.9970	2.0280	1.9430	1.9480	1.9770	1.9620	1.9570
1,1,2-TRICHLOROETHANE	1.0370	1.0190	0.8280	0.76	0.8690	0.8590	0.8320	0.8370	0.8380	0.8630
2-HEXANONE	0.5910	0.5710	0.7980	0.7410	0.7270	0.7280	0.7290	0.7470	0.7570	0.7540
CHLOROBENZENE	2.0470	2.4570	2.8910	2.5730	2.4520	2.4530	2.4390	2.4830	2.4430	2.4930
STYRENE	2.1610	2.9920	2.9270	2.5970	2.68	2.6580	2.6420	2.7150	2.6240	2.6460
TERT-BUTYLBENZENE	3.1290	4.4590	4.0060	4.0130	4.1410	4.0590	3.7120	3.86	3.69	3.7380
SEC-BUTYLBENZENE	6.5230	5.7370	5.6620	5.2260	5.2940	5.2380	4.9280	5.0020	4.7080	4.80
1,3-DICHLOROBENZENE	2.5540	2.2720	2.3280	2.4360	2.2240	2.2110	2.1140	2.1840	2.1690	2.1940
P-ISOPROPYLTOLUENE	3.5670	4.0950	5.1450	4.4620	4.5190	4.2830	4.1620	4.1970	3.8680	3.9340
1,4-DICHLOROBENZENE	2.4630	2.1980	2.44	2.1850	2.2210	2.1280	2.0330	2.0730	2.0390	2.0780
1,2-DICHLOROETHANE-D4	0.3580	0.36	0.3590	0.3550	0.3460	0.3580	0.3650	0.3590	0.3590	0.3610
TOLUENE-D8	2.3960	2.4410	2.4650	2.4520	2.39	2.3210	2.3190	2.2950	2.3520	2.4310
4-BROMOFLUOROBENZENE	0.8960	0.90	0.9140	0.8860	0.90	0.9030	0.9190	0.9290	0.8970	0.9150
VINYL CHLORIDE		0.5420	0.5220	0.5510	0.4910	0.52	0.4810	0.5330	0.5370	0.5390
METHYLENE CHLORIDE		0.3080	0.4070	0.3730	0.40	0.3730	0.3590	0.3740	0.3580	0.3590
TRANS-1,2-DICHLOROETHENE		0.2640	0.3460	0.3870	0.3570	0.3470	0.3310	0.3570	0.3480	0.3470
1,1-DICHLOROETHANE		0.7690	0.8320	0.8470	0.7950	0.8230	0.8150	0.8240	0.8110	0.8140
CIS-1,2-DICHLOROETHENE		0.3850	0.4230	0.4230	0.4130	0.4250	0.39	0.3990	0.3930	0.3940
2-BUTANONE (MEK)		0.4110	0.38	0.3820	0.35	0.3620	0.3680	0.3890	0.3930	0.3820
CHLOROFORM		0.8720	0.7580	0.6880	0.7080	0.6860	0.6710	0.6950	0.6780	0.6820
CYCLOHEXANE		0.3940	0.5820	0.5010	0.4740	0.4980	0.4310	0.47	0.4770	0.4780
CARBON TETRACHLORIDE		0.4670	0.5460	0.6420	0.5530	0.5970	0.56	0.5880	0.6080	0.5980
1,1-DICHLOROPROPENE		0.4630	0.4680	0.4840	0.4770	0.5050	0.4740	0.5020	0.4930	0.4970
BENZENE		1.5520	1.7190	1.5070	1.4880	1.45	1.4140	1.4520	1.42	1.41
1,2-DICHLOROETHANE		0.7120	0.7890	0.6930	0.5950	0.6230	0.6240	0.6350	0.62	0.6260
TRICHLOROETHENE		0.4650	0.4630	0.4310	0.40	0.4140	0.3970	0.4080	0.4050	0.4080
DIBROMOMETHANE		0.2470	0.2930	0.2720	0.27	0.2760	0.2550	0.2670	0.2650	0.2660
CIS-1,3-DICHLOROPROPENE		0.5860	0.6760	0.63	0.6170	0.6340	0.6190	0.65	0.6490	0.65
TRANS-1,3-DICHLOROPROPENE		1.0970	1.4470	1.4730	1.4860	1.4890	1.41	1.5090	1.5420	1.5890
TETRACHLOROETHENE		0.6620	0.7470	0.8530	0.7650	0.7990	0.7580	0.8020	0.7950	0.8140
ETHYLBENZENE		1.1940	1.3240	1.3570	1.3110	1.3030	1.2890	1.3370	1.2880	1.3060
M&P-XYLENE		1.6650	1.8280	1.6660	1.6750	1.6080	1.5490	1.63	1.5580	1.5670
O-XYLENE		1.7730	1.7430	1.6960	1.65	1.5620	1.5410	1.6080	1.5060	1.5080
BROMOBENZENE		2.8860	2.95	2.80	2.6250	2.5230	2.4150	2.4380	2.5460	2.5860
1,1,2,2-TETRACHLOROETHANE		2.0860	2.2110	1.8570	1.8750	1.8070	1.7410	1.6770	1.7940	1.79
1,3,5-TRIMETHYLBENZENE		5.3320	5.4840	5.1320	5.2810	4.8980	4.7120	4.7350	4.5570	4.5810
1,2,4-TRICHLOROBENZENE		1.1170	1.1660	1.0690	1.0330	1.1020	1.0130	1.0880	0.8750	0.91
1,2,3-TRICHLOROBENZENE		1.0780	0.9210	1.0780	1.0310	0.9850	0.9890	0.9970	0.8030	0.8540
DICHLORODIFLUOROMETHANE			0.3070	0.3310	0.3010	0.3350	0.3140	0.36	0.3630	0.36
CHLOROMETHANE			0.8140	0.8090	0.7540	0.6810	0.6620	0.7140	0.7140	0.7110
TRICHLOROFLUOROMETHANE			0.6080	0.6260	0.5780	0.6040	0.5320	0.6140	0.6180	0.6160
1,1-DICHLOROETHENE			0.3350	0.34	0.3160	0.3190	0.3020	0.3240	0.3210	0.3240
1,1,2-TRICHLOROTRIFLUOROETHANE			0.3390	0.3070	0.3190	0.3450	0.2990	0.3490	0.3540	0.3530
ACETONE			0.27	0.2420	0.2210	0.2160	0.22	0.2290	0.2240	0.2240
CARBON DISULFIDE			1.2620	1.1220	1.0880	1.0710	0.9860	1.0650	1.0590	1.0570
BROMOCHLOROMETHANE			0.2340	0.2760	0.2530	0.2720	0.2630	0.2770	0.2730	0.2720

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 624.1

Instrument ID: VOCMS32

Analyte	**RRF: 0.04**	**RRF: 0.1**	**RRF: 0.2**	**RRF: 0.5**	**RRF: 1**	**RRF: 2**	**RRF: 5.0**	**RRF: 25**	**RRF: 75**	**RRF: 100**
Analysis date/time	03/13/19 19:12	03/13/19 19:31	03/13/19 19:51	03/13/19 20:11	03/13/19 20:31	03/13/19 20:50	03/13/19 21:10	03/13/19 21:30	03/13/19 21:50	03/13/19 22:09
1,2-DICHLOROPROPANE			0.3050	0.3310	0.3410	0.3590	0.3310	0.3370	0.3360	0.3350
BROMODICHLOROMETHANE			0.6540	0.5630	0.52	0.5330	0.53	0.5320	0.5210	0.5240
TOLUENE			4.9920	4.37	4.0910	3.8110	3.6880	3.8150	3.7840	3.9120
CHLORODIBROMOMETHANE			0.9530	0.9980	1.0560	1.05	1.04	1.06	1.0830	1.1030
1,1,1,2-TETRACHLOROETHANE			0.9440	0.85	0.9410	0.89	0.9120	0.93	0.8870	0.9090
BROMOFORM			0.6820	0.8490	0.8190	0.8080	0.8330	0.8510	0.8460	0.8550
ISOPROPYLBENZENE			4.83	4.4690	4.2110	4.0830	3.9820	4.1020	3.7580	3.7720
1,2,3-TRICHLOROPROPANE			0.47	0.5870	0.5130	0.5620	0.5290	0.5120	0.5430	0.5510
N-PROPYLBENZENE			7.4360	7.0640	6.9480	6.8090	6.3220	6.5480	6.6670	6.7020
4-CHLOROTOLUENE			4.6720	4.1580	4.3030	4.0890	4.0270	4.09	4.1740	4.2470
1,2,4-TRIMETHYLBENZENE			5.3580	4.7470	4.8860	4.5480	4.3960	4.4830	4.2230	4.2480
BROMOMETHANE				0.3750	0.3560	0.3340	0.2940	0.3060	0.2920	0.2910
CHLOROETHANE				0.2940	0.3390	0.32	0.2660	0.2780	0.2670	0.2640
2,2-DICHLOROPROPANE				0.3910	0.4110	0.39	0.3590	0.3620	0.33	0.3320
2-CHLOROTOLUENE				4.4620	4.6270	4.4120	4.2250	4.3510	4.3090	4.3970
1,2-DICHLOROBENZENE				1.8750	1.78	1.74	1.6650	1.7450	1.6630	1.6880
N-BUTYLBENZENE				3.3110	3.3710	2.8130	2.7660	2.9830	2.6450	2.7110
METHYL CYCLOHEXANE					0.6880	0.6350	0.5080	0.5420	0.5410	0.5450
File ID:	0313_08	0313_09	0313_10	0313_11	0313_12	0313_13	0313_14	0313_15	0313_16	0313_17

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 624.1

Instrument ID: VOCMS32

Analyte	RRF: 200	RRF. Avg	%RSD	COD
Analysis date/time	03/13/19 22:29			
METHYL ACETATE	0.57	0.567518	9.43	
ACRYLONITRILE	0.2850	0.300324	7.39	
METHYL TERT-BUTYL ETHER	0.9240	0.994075	6.9	
1,1,1-TRICHLOROETHANE	0.5970	0.596102	6.06	
4-METHYL-2-PENTANONE (MIBK)	1.8680	1.954956	3.1	
1,1,2-TRICHLOROETHANE	0.8520	0.872095	9.46	
2-HEXANONE	0.7320	0.715863	9.74	
CHLOROBENZENE	2.3920	2.465764	7.87	
STYRENE	2.5480	2.653591	8.01	
TERT-BUTYLBENZENE	3.8880	3.881309	8.61	
SEC-BUTYLBENZENE	4.9850	5.282131	9.93	
1,3-DICHLOROBENZENE	2.1190	2.254956	6.04	
P-ISOPROPYLTOLUENE	4.1220	4.213964	9.69	
1,4-DICHLOROBENZENE	2.0320	2.171986	7.08	
1,2-DICHLOROETHANE-D4	0.3570	0.357974	1.27	
TOLUENE-D8	2.3570	2.383499	2.47	
4-BROMOFLUOROBENZENE	0.8730	0.902858	1.75	
VINYL CHLORIDE	0.5790	0.529583	5.36	
METHYLENE CHLORIDE	0.3660	0.367772	7.28	
TRANS-1,2-DICHLOROETHENE	0.35	0.343442	9.08	
1,1-DICHLOROETHANE	0.8220	0.815251	2.59	
CIS-1,2-DICHLOROETHENE	0.3990	0.404491	3.75	
2-BUTANONE (MEK)	0.3810	0.379738	4.51	
CHLOROFORM	0.6920	0.713025	8.55	
CYCLOHEXANE	0.4880	0.479434	10.13	
CARBON TETRACHLORIDE	0.6230	0.578054	8.59	
1,1-DICHLOROPROPENE	0.5010	0.486261	3.12	
BENZENE	1.4250	1.483708	6.38	
1,2-DICHLOROETHANE	0.6320	0.654942	8.97	
TRICHLOROETHENE	0.41	0.420146	5.95	
DIBROMOMETHANE	0.2690	0.26796	4.52	
CIS-1,3-DICHLOROPROPENE	0.6530	0.636558	3.93	
TRANS-1,3-DICHLOROPROPENE	1.5550	1.459769	9.45	
TETRACHLOROETHENE	0.7910	0.77855	6.54	
ETHYLBENZENE	1.2620	1.297099	3.47	
M&P-XYLENE	1.5070	1.625318	5.61	
O-XYLENE	1.4850	1.607269	6.46	
BROMOBENZENE	2.5530	2.632167	7	
1,1,2,2-TETRACHLOROETHANE	1.8090	1.864647	8.7	
1,3,5-TRIMETHYLBENZENE	4.7570	4.946873	6.76	
1,2,4-TRICHLOROBENZENE	0.9920	1.03641	8.86	
1,2,3-TRICHLOROBENZENE	0.9650	0.970254	9.22	
DICHLORODIFLUOROMETHANE	0.3730	0.338354	7.93	
CHLOROMETHANE	0.7470	0.734081	7.12	
TRICHLOROFLUOROMETHANE	0.6330	0.603299	5.13	
1,1-DICHLOROETHENE	0.3310	0.323699	3.46	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.3620	0.336364	6.69	
ACETONE	0.2230	0.229864	7.35	
CARBON DISULFIDE	1.0790	1.087645	6.85	
BROMOCHLOROMETHANE	0.2790	0.266571	5.42	

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 624.1

Instrument ID: VOCMS32

Analyte	**RRF: 200**	**RRF. Avg**	**%RSD**	**COD**
Analysis date/time	03/13/19 22:29			
1,2-DICHLOROPROPANE	0.3440	0.335604	4.26	
BROMODICHLOROMETHANE	0.5320	0.545383	7.82	
TOLUENE	3.8330	4.032941	10.26	
CHLORODIBROMOMETHANE	1.0970	1.048936	4.58	
1,1,1,2-TETRACHLOROETHANE	0.9040	0.907454	3.24	
BROMOFORM	0.8460	0.821149	6.63	
ISOPROPYLBENZENE	3.73	4.104152	8.86	
1,2,3-TRICHLOROPROPANE	0.5460	0.534851	6.31	
N-PROPYLBENZENE	6.66	6.79519	4.75	
4-CHLOROTOLUENE	4.1170	4.208669	4.59	
1,2,4-TRIMETHYLBENZENE	4.38	4.585439	7.9	
BROMOMETHANE	0.2980	0.318304	10.24	
CHLOROETHANE	0.2590	0.285885	10.24	
2,2-DICHLOROPROPANE	0.3140	0.361249	9.52	
2-CHLOROTOLUENE	4.3830	4.395718	2.68	
1,2-DICHLOROBENZENE	1.7120	1.733674	4.05	
N-BUTYLBENZENE	2.74	2.917578	9.58	
METHYL CYCLOHEXANE	0.5570	0.573608	11.09	
File ID:	0313_18			

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	03/13/19 19:12
Instrument ID:	VOCMS32	**Calibration (end) date/time:**	04/24/19 12:26
Lab File ID:	0313_21-6	**Analysis date/time:**	03/13/19 23:48
Analytical Method:	624.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1,1,1,2-TETRACHLOROETHANE	0.907454	0.89770040		1.07	40	0.0250	0.0247313	98.90	75 - 122
1,1,1-TRICHLOROETHANE	0.596102	0.55278390		7.27	40	0.0250	0.02318327	92.70	70 - 130
1,1,2,2-TETRACHLOROETHANE	1.864647	1.670467		10.40	30	0.0250	0.02239656	89.60	60 - 140
1,1,2-TRICHLOROETHANE	0.872095	0.85784730		1.63	40	0.0250	0.02459158	98.40	78 - 120
1,1,2-TRICHLOROTRIFLUOROETHANE	0.336364	0.33407960		0.6790	40	0.0250	0.02483024	99.30	61 - 136
1,1-DICHLOROETHANE	0.815251	0.799180		1.97	30	0.0250	0.02450717	98	70 - 130
1,1-DICHLOROETHENE	0.323699	0.31880420		1.51	30	0.0250	0.02462193	98.50	50 - 150
1,1-DICHLOROPROPENE	0.486261	0.47994570		1.30	40	0.0250	0.02467531	98.70	71 - 129
1,2,3-TRICHLOROBENZENE	0.970254	0.95266720		1.81	40	0.0250	0.02454684	98.20	61 - 133
1,2,3-TRICHLOROPROPANE	0.534851	0.513346		4.02	40	0.0250	0.0239948	96	72 - 124
1,2,4-TRICHLOROBENZENE	1.036410	1.029910		0.6270	40	0.0250	0.0248432	99.40	69 - 129
1,2,4-TRIMETHYLBENZENE	4.585439	4.332415		5.52	40	0.0250	0.0236205	94.50	75 - 120
1,2-DICHLOROBENZENE	1.733674	1.700649		1.90	40	0.0250	0.02452376	98.10	65 - 135
1,2-DICHLOROETHANE	0.654942	0.61011530		6.84	40	0.0250	0.02328891	93.20	70 - 130
1,2-DICHLOROPROPANE	0.335604	0.33922850		1.08	30	0.0250	0.02526996	101	35 - 165
1,3,5-TRIMETHYLBENZENE	4.946873	4.639405		6.22	40	0.0250	0.02344615	93.80	75 - 120
1,3-DICHLOROBENZENE	2.254956	2.182915		3.19	40	0.0250	0.0242013	96.80	70 - 130
1,4-DICHLOROBENZENE	2.171986	2.050878		5.58	40	0.0250	0.02360602	94.40	65 - 135
2,2-DICHLOROPROPANE	0.361249	0.33515290		7.22	40	0.0250	0.02319405	92.80	60 - 125
2-BUTANONE (MEK)	0.379738	0.39468360		3.94	40	0.1250	0.1299198	104	37 - 158
2-CHLOROTOLUENE	4.395718	4.202992		4.38	40	0.0250	0.0239039	95.60	74 - 122
2-HEXANONE	0.715863	0.73793820		3.08	40	0.1250	0.1288546	103	58 - 147
4-CHLOROTOLUENE	4.208669	4.021929		4.44	40	0.0250	0.02389074	95.60	79 - 120
4-METHYL-2-PENTANONE (MIBK)	1.954956	1.887176		3.47	40	0.1250	0.1206661	96.50	59 - 143
ACETONE	0.229864	0.23429430		1.93	40	0.1250	0.1274091	102	10 - 160
ACRYLONITRILE	0.300324	0.27860050		7.23	40	0.1250	0.1159581	92.80	60 - 140
BENZENE	1.483708	1.390356		6.29	40	0.0250	0.02342706	93.70	65 - 135
BROMOBENZENE	2.632167	2.373971		9.81	40	0.0250	0.02254769	90.20	79 - 120
BROMOCHLOROMETHANE	0.266571	0.263795		1.04	40	0.0250	0.02473969	99	76 - 122
BROMODICHLOROMETHANE	0.545383	0.52373190		3.97	40	0.0250	0.02400752	96	65 - 135
BROMOFORM	0.821149	0.876985		6.80	30	0.0250	0.02669993	107	70 - 130
BROMOMETHANE	0.318304	0.30788190		3.27	40	0.0250	0.02418143	96.70	15 - 185
CARBON DISULFIDE	1.087645	1.053788		3.11	40	0.0250	0.02422176	96.90	55 - 127
CARBON TETRACHLORIDE	0.578054	0.57281040		0.9070	40	0.0250	0.02477321	99.10	70 - 130
CHLOROBENZENE	2.465764	2.427330		1.56	30	0.0250	0.02461032	98.40	65 - 135
CHLORODIBROMOMETHANE	1.048936	1.108056		5.64	40	0.0250	0.02640906	106	70 - 135
CHLOROETHANE	0.285885	0.29527570		3.28	40	0.0250	0.02582124	103	40 - 160
CHLOROFORM	0.713025	0.682713		4.25	30	0.0250	0.0239372	95.70	70 - 130
CHLOROMETHANE	0.734081	0.82015030		11.70	30	0.0250	0.02793121	112	0.0010 - 205
CIS-1,2-DICHLOROETHENE	0.404491	0.39097620		3.34	40	0.0250	0.02416468	96.70	73 - 120
CIS-1,3-DICHLOROPROPENE	0.636558	0.63973640		0.4990	40	0.0250	0.02512482	100	25 - 175
CYCLOHEXANE	0.479434	0.48064880		0.2530	40	0.0250	0.02506335	100	70 - 130
DIBROMOMETHANE	0.267960	0.25662920		4.23	40	0.0250	0.02394284	95.80	78 - 120
DICHLORODIFLUOROMETHANE	0.338354	0.56607010		67.30	40	0.0250	0.04182523	167	49 - 155
ETHYLBENZENE	1.297099	1.293803		0.2540	30	0.0250	0.02493647	99.70	60 - 140
ISOPROPYLBENZENE	4.104152	4.041763		1.52	40	0.0250	0.02461996	98.50	75 - 120
M&P-XYLENE	1.625318	1.594120		1.92	40	0.05	0.04904025	98.10	77 - 120

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	03/13/19 19:12
Instrument ID:	VOCMS32	**Calibration (end) date/time:**	04/24/19 12:26
Lab File ID:	0313_21-6	**Analysis date/time:**	03/13/19 23:48
Analytical Method:	624.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
METHYL ACETATE	0.567518	0.56809440		0.1020	40	0.1250	0.125127	100	70 - 130
METHYL CYCLOHEXANE	0.573608	0.536153		6.53	40	0.0250	0.02336758	93.50	70 - 130
METHYL TERT-BUTYL ETHER	0.994075	0.90545580		8.91	40	0.0250	0.02277132	91.10	64 - 123
METHYLENE CHLORIDE	0.367772	0.36168830		1.65	40	0.0250	0.02458643	98.30	60 - 140
N-BUTYLBENZENE	2.917578	2.841046		2.62	40	0.0250	0.02434422	97.40	72 - 126
N-PROPYLBENZENE	6.795190	6.448669		5.10	40	0.0250	0.02372512	94.90	79 - 120
O-XYLENE	1.607269	1.552888		3.38	40	0.0250	0.02415414	96.60	78 - 120
P-ISOPROPYLTOLUENE	4.213964	4.037894		4.18	40	0.0250	0.02395544	95.80	74 - 126
SEC-BUTYLBENZENE	5.282131	4.879672		7.62	40	0.0250	0.02309518	92.40	74 - 121
STYRENE	2.653591	2.743238		3.38	40	0.0250	0.02584458	103	78 - 124
TERT-BUTYLBENZENE	3.881309	3.747303		3.45	40	0.0250	0.02413685	96.50	75 - 122
TETRACHLOROETHENE	0.778550	0.77231790		0.80	40	0.0250	0.0247999	99.20	70 - 130
TOLUENE	4.032941	3.736253		7.36	30	0.0250	0.02316085	92.60	70 - 130
TRANS-1,2-DICHLOROETHENE	0.343442	0.34174040		0.4950	40	0.0250	0.02487614	99.50	70 - 130
TRANS-1,3-DICHLOROPROPENE	1.459769	1.477257		1.20	40	0.0250	0.02529949	101	50 - 150
TRICHLOROETHENE	0.420146	0.38937090		7.32	40	0.0250	0.02316878	92.70	65 - 135
TRICHLOROFLUOROMETHANE	0.603299	0.64270170		6.53	40	0.0250	0.02663282	107	50 - 150
VINYL CHLORIDE	0.529583	0.57060370		7.75	30	0.0250	0.02693644	108	5 - 195
XYLENES, TOTAL	0	2.153888		0	40	0.0750	0.07319439	97.60	77 - 120
1,2-DICHLOROETHANE-D4	0.357974	0.352033		1.66	40	0.0160	0.01573448	98.30	70 - 130
4-BROMOFLUOROBENZENE	0.902858	0.91830870		1.71	40	0.0160	0.01627382	102	70 - 130
TOLUENE-D8	2.383499	2.420943		1.57	40	0.0160	0.01625135	102	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	03/13/19 19:12
Instrument ID:	VOCMS32	**Calibration (end) date/time:**	04/24/19 12:26
Lab File ID:	0517_02-1	**Analysis date/time:**	05/17/19 12:55
Analytical Method:	624.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1,1,1,2-TETRACHLOROETHANE	0.907454	0.92004290		1.39		0.0250	0.02534683	101	75 - 122
1,1,1-TRICHLOROETHANE	0.596102	0.67876710		13.90		0.0250	0.0284669	114	70 - 130
1,1,2,2-TETRACHLOROETHANE	1.864647	1.349972		27.60		0.0250	0.01809957	72.40	60 - 140
1,1,2-TRICHLOROETHANE	0.872095	0.69073030		20.80		0.0250	0.0198009	79.20	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.336364	0.31860110		5.28		0.0250	0.02367981	94.70	61 - 136
1,1-DICHLOROETHANE	0.815251	0.776064		4.81		0.0250	0.02379831	95.20	70 - 130
1,1-DICHLOROETHENE	0.323699	0.26943690		16.80		0.0250	0.02080918	83.20	50 - 150
1,1-DICHLOROPROPENE	0.486261	0.47233550		2.86		0.0250	0.02428406	97.10	71 - 129
1,2,3-TRICHLOROBENZENE	0.970254	0.914036		5.79		0.0250	0.02355145	94.20	61 - 133
1,2,3-TRICHLOROPROPANE	0.534851	0.42448890		20.60		0.0250	0.01984144	79.40	72 - 124
1,2,4-TRICHLOROBENZENE	1.036410	1.077795		3.99		0.0250	0.02599828	104	69 - 129
1,2,4-TRIMETHYLBENZENE	4.585439	4.126459		10		0.0250	0.02249762	90	75 - 120
1,2-DICHLOROBENZENE	1.733674	1.579139		8.91		0.0250	0.02277157	91.10	65 - 135
1,2-DICHLOROETHANE	0.654942	0.69966810		6.83		0.0250	0.02670726	107	70 - 130
1,2-DICHLOROPROPANE	0.335604	0.30389450		9.45		0.0250	0.02263784	90.60	35 - 165
1,3,5-TRIMETHYLBENZENE	4.946873	4.580634		7.40		0.0250	0.02314913	92.60	75 - 120
1,3-DICHLOROBENZENE	2.254956	1.963949		12.90		0.0250	0.02177369	87.10	70 - 130
1,4-DICHLOROBENZENE	2.171986	1.885695		13.20		0.0250	0.02170473	86.80	65 - 135
2,2-DICHLOROPROPANE	0.361249	0.48750450		34.90		0.0250	0.03373745	135	60 - 125
2-BUTANONE (MEK)	0.379738	0.29492350		22.30		0.1250	0.0970813	77.70	37 - 158
2-CHLOROTOLUENE	4.395718	4.125299		6.15		0.0250	0.02346203	93.80	74 - 122
2-HEXANONE	0.715863	0.49928050		30.30		0.1250	0.08718155	69.70	58 - 147
4-CHLOROTOLUENE	4.208669	3.921861		6.81		0.0250	0.02329633	93.20	79 - 120
4-METHYL-2-PENTANONE (MIBK)	1.954956	1.463398		25.10		0.1250	0.09356978	74.90	59 - 143
ACETONE	0.229864	0.17686190		23.10		0.1250	0.09617736	76.90	10 - 160
ACRYLONITRILE	0.300324	0.21262360		29.20		0.1250	0.08849747	70.80	60 - 140
BENZENE	1.483708	1.258915		15.20		0.0250	0.02121232	84.80	65 - 135
BROMOBENZENE	2.632167	2.175577		17.30		0.0250	0.02066336	82.70	79 - 120
BROMOCHLOROMETHANE	0.266571	0.26264970		1.47		0.0250	0.02463228	98.50	76 - 122
BROMODICHLOROMETHANE	0.545383	0.55682280		2.10		0.0250	0.02552438	102	65 - 135
BROMOFORM	0.821149	0.80613940		1.83		0.0250	0.02454303	98.20	70 - 130
BROMOMETHANE	0.318304	0.29999410		5.75		0.0250	0.02356191	94.20	15 - 185
CARBON DISULFIDE	1.087645	0.81570850		25		0.0250	0.01874941	75	55 - 127
CARBON TETRACHLORIDE	0.578054	0.70737410		22.40		0.0250	0.03059289	122	70 - 130
CHLOROBENZENE	2.465764	2.317067		6.03		0.0250	0.02349238	94	65 - 135
CHLORODIBROMOMETHANE	1.048936	1.006227		4.07		0.0250	0.02398209	95.90	70 - 135
CHLOROETHANE	0.285885	0.24433310		14.50		0.0250	0.02136642	85.50	40 - 160
CHLOROFORM	0.713025	0.71925910		0.8740		0.0250	0.02521857	101	70 - 130
CHLOROMETHANE	0.734081	0.67008890		8.72		0.0250	0.02282069	91.30	0.0010 - 205
CIS-1,2-DICHLOROETHENE	0.404491	0.37877890		6.36		0.0250	0.02341082	93.60	73 - 120
CIS-1,3-DICHLOROPROPENE	0.636558	0.57570840		9.56		0.0250	0.02261021	90.40	25 - 175
CYCLOHEXANE	0.479434	0.433444		9.59		0.0250	0.02260186	90.40	70 - 130
DIBROMOMETHANE	0.267960	0.25575580		4.55		0.0250	0.02386136	95.40	78 - 120
DICHLORODIFLUOROMETHANE	0.338354	0.40317730		19.20		0.0250	0.02978956	119	49 - 155
ETHYLBENZENE	1.297099	1.191708		8.13		0.0250	0.02296872	91.90	60 - 140
ISOPROPYLBENZENE	4.104152	3.874975		5.58		0.0250	0.02360399	94.40	75 - 120
M&P-XYLENE	1.625318	1.480478		8.91		0.05	0.04554424	91.10	77 - 120

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	03/13/19 19:12
Instrument ID:	VOCMS32	**Calibration (end) date/time:**	04/24/19 12:26
Lab File ID:	0517_02-1	**Analysis date/time:**	05/17/19 12:55
Analytical Method:	624.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
METHYL ACETATE	0.567518	0.41506230		26.90		0.1250	0.09142052	73.10	70 - 130
METHYL CYCLOHEXANE	0.573608	0.50480150		12		0.0250	0.02200116	88	70 - 130
METHYL TERT-BUTYL ETHER	0.994075	0.94283350		5.15		0.0250	0.02371133	94.80	64 - 123
METHYLENE CHLORIDE	0.367772	0.32790160		10.80		0.0250	0.02228972	89.20	60 - 140
N-BUTYLBENZENE	2.917578	2.607630		10.60		0.0250	0.02234413	89.40	72 - 126
N-PROPYLBENZENE	6.795190	6.154362		9.43		0.0250	0.02264234	90.60	79 - 120
O-XYLENE	1.607269	1.436954		10.60		0.0250	0.02235087	89.40	78 - 120
P-ISOPROPYLTOLUENE	4.213964	3.789297		10.10		0.0250	0.02248059	89.90	74 - 126
SEC-BUTYLBENZENE	5.282131	4.611773		12.70		0.0250	0.02182723	87.30	74 - 121
STYRENE	2.653591	2.446699		7.80		0.0250	0.02305083	92.20	78 - 124
TERT-BUTYLBENZENE	3.881309	3.592337		7.45		0.0250	0.02313869	92.60	75 - 122
TETRACHLOROETHENE	0.778550	0.82112850		5.47		0.0250	0.02636725	105	70 - 130
TOLUENE	4.032941	3.282543		18.60		0.0250	0.02034832	81.40	70 - 130
TRANS-1,2-DICHLOROETHENE	0.343442	0.31889160		7.15		0.0250	0.02321291	92.90	70 - 130
TRANS-1,3-DICHLOROPROPENE	1.459769	1.277687		12.50		0.0250	0.02188166	87.50	50 - 150
TRICHLOROETHENE	0.420146	0.39716070		5.47		0.0250	0.02363229	94.50	65 - 135
TRICHLOROFLUOROMETHANE	0.603299	0.73922350		22.50		0.0250	0.03063257	123	50 - 150
VINYL CHLORIDE	0.529583	0.510658		3.57		0.0250	0.02410659	96.40	5 - 195
XYLENES, TOTAL	0	1.970955		0		0.0750	0.06789511	90.50	77 - 120
1,2-DICHLOROETHANE-D4	0.357974	0.43917640		22.70		0.0160	0.01962945	123	70 - 130
4-BROMOFLUOROBENZENE	0.902858	0.85721010		5.06		0.0160	0.01519106	94.90	70 - 130
TOLUENE-D8	2.383499	2.261881		5.10		0.0160	0.0151836	94.90	70 - 130

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412442-3

Lab Sample ID:	R3412442-3	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0517_06	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/17/19 14:13
Analytical Batch:	WG1283043	**Analysis Date/Time:**	05/17/19 14:13
Dilution Factor:	1	**Prep Method:**	624.1/8260B
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acetone	67-64-1	0	U		0.0100	0.05	0.0500
Acrylonitrile	107-13-1	0	U		0.00187	0.01	0.0100
Bromobenzene	108-86-1	0	U		0.000352	0.0010	0.00100
Benzene	71-43-2	0	U		0.000331	0.0010	0.00100
Bromodichloromethane	75-27-4	0	U		0.000380	0.0010	0.00100
Bromochloromethane	74-97-5	0	U		0.000520	0.0050	0.00500
Bromoform	75-25-2	0	U		0.000469	0.0010	0.00100
Bromomethane	74-83-9	0	U		0.000866	0.0050	0.00500
n-Butylbenzene	104-51-8	0	U		0.000361	0.0010	0.00100
sec-Butylbenzene	135-98-8	0	U		0.000365	0.0010	0.00100
tert-Butylbenzene	98-06-6	0	U		0.000399	0.0010	0.00100
Carbon disulfide	75-15-0	0	U		0.000275	0.0010	0.00100
Carbon tetrachloride	56-23-5	0	U		0.000379	0.0010	0.00100
Chlorobenzene	108-90-7	0	U		0.000348	0.0010	0.00100
Chlorodibromomethane	124-48-1	0	U		0.000327	0.0010	0.00100
Chloroethane	75-00-3	0	U		0.000453	0.0050	0.00500
Chloroform	67-66-3	0	U		0.000324	0.0050	0.00500
Chloromethane	74-87-3	0	U		0.000276	0.0025	0.00250
Cyclohexane	110-82-7	0	U		0.000390	0.0010	0.00100
2-Chlorotoluene	95-49-8	0	U		0.000375	0.0010	0.00100
4-Chlorotoluene	106-43-4	0	U		0.000351	0.0010	0.00100
Dibromomethane	74-95-3	0	U		0.000346	0.0010	0.00100
1,2-Dichlorobenzene	95-50-1	0	U		0.000349	0.0010	0.00100
1,3-Dichlorobenzene	541-73-1	0	U		0.000220	0.0010	0.00100
1,4-Dichlorobenzene	106-46-7	0	U		0.000274	0.0010	0.00100
Dichlorodifluoromethane	75-71-8	0	U		0.000551	0.0050	0.00500
1,1-Dichloroethane	75-34-3	0	U		0.000259	0.0010	0.00100
1,2-Dichloroethane	107-06-2	0	U		0.000361	0.0010	0.00100
1,1-Dichloroethene	75-35-4	0	U		0.000398	0.0010	0.00100
cis-1,2-Dichloroethene	156-59-2	0	U		0.000260	0.0010	0.00100
trans-1,2-Dichloroethene	156-60-5	0	U		0.000396	0.0010	0.00100
1,2-Dichloropropane	78-87-5	0	U		0.000306	0.0010	0.00100
1,1-Dichloropropene	563-58-6	0	U		0.000352	0.0010	0.00100
cis-1,3-Dichloropropene	10061-01-5	0	U		0.000418	0.0010	0.00100
trans-1,3-Dichloropropene	10061-02-6	0	U		0.000419	0.0010	0.00100
2,2-Dichloropropane	594-20-7	0	U		0.000321	0.0010	0.00100
Ethylbenzene	100-41-4	0	U		0.000384	0.0010	0.00100
2-Hexanone	591-78-6	0	U		0.00382	0.01	0.0100
Isopropylbenzene	98-82-8	0	U		0.000326	0.0010	0.00100
p-Isopropyltoluene	99-87-6	0	U		0.000350	0.0010	0.00100
2-Butanone (MEK)	78-93-3	0	U		0.00393	0.01	0.0100
Methyl Acetate	79-20-9	0	U		0.00430	0.02	0.0200
Methyl Cyclohexane	108-87-2	0	U		0.000380	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412442-3

Lab Sample ID:	R3412442-3	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0517_06	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/17/19 14:13
Analytical Batch:	WG1283043	**Analysis Date/Time:**	05/17/19 14:13
Dilution Factor:	1	**Prep Method:**	624.1/8260B
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Methylene Chloride	75-09-2	3.09	U		0.00100	0.0050	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		0.00214	0.01	0.0100
Methyl tert-butyl ether	1634-04-4	0	U		0.000367	0.0010	0.00100
n-Propylbenzene	103-65-1	0	U		0.000349	0.0010	0.00100
Styrene	100-42-5	0	U		0.000307	0.0010	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	0	U		0.000385	0.0010	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.000130	0.0010	0.00100
Tetrachloroethene	127-18-4	0	U		0.000372	0.0010	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.000303	0.0010	0.00100
1,2,3-Trichlorobenzene	87-61-6	0	U		0.000230	0.0010	0.00100
1,2,4-Trichlorobenzene	120-82-1	0	U		0.000355	0.0010	0.00100
1,1,1-Trichloroethane	71-55-6	0	U		0.000319	0.0010	0.00100
1,1,2-Trichloroethane	79-00-5	0	U		0.000383	0.0010	0.00100
Toluene	108-88-3	0	U		0.000412	0.0010	0.00100
Trichloroethene	79-01-6	0	U		0.000398	0.0010	0.00100
Trichlorofluoromethane	75-69-4	0	U		0.00120	0.0050	0.00500
1,2,3-Trichloropropane	96-18-4	0	U		0.000807	0.0025	0.00250
1,2,4-Trimethylbenzene	95-63-6	0	U		0.000373	0.0010	0.00100
1,3,5-Trimethylbenzene	108-67-8	0	U		0.000387	0.0010	0.00100
Vinyl chloride	75-01-4	0	U		0.000259	0.0010	0.00100
o-Xylene	95-47-6	0	U		0.000341	0.0010	0.00100
m&p-Xylene	1330-20-7	0	U		0.000719	0.0020	0.00200
Xylenes, Total	1330-20-7	0	U		0.00106	0.0030	0.00300
1,3-Dichloropropene	542-75-6	0	U		0.000320	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412442-1

Lab Sample ID:	R3412442-1	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0517_03	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/17/19 13:14
Analytical Batch:	WG1283043	**Analysis Date/Time:**	05/17/19 13:14
Dilution Factor:	1	**Prep Method:**	624.1/8260B
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acetone	67-64-1	3.10	0.0921		0.0100	0.05	0.0500
Acrylonitrile	107-13-1	3.56	0.0843		0.00187	0.01	0.0100
Bromobenzene	108-86-1	7.39	0.0210		0.000352	0.0010	0.00100
Bromodichloromethane	75-27-4	4.97	0.0250		0.000380	0.0010	0.00100
Bromochloromethane	74-97-5	3.95	0.0248		0.000520	0.0010	0.00100
Bromoform	75-25-2	6.97	0.0244		0.000469	0.0010	0.00100
Bromomethane	74-83-9	2.20	0.0236		0.000866	0.0050	0.00500
n-Butylbenzene	104-51-8	8	0.0227		0.000361	0.0010	0.00100
sec-Butylbenzene	135-98-8	7.78	0.0222		0.000365	0.0010	0.00100
tert-Butylbenzene	98-06-6	7.69	0.0239		0.000399	0.0010	0.00100
Carbon disulfide	75-15-0	2.77	0.0182		0.000275	0.0010	0.00100
Carbon tetrachloride	56-23-5	4.07	0.0297		0.000379	0.0010	0.00100
Chlorobenzene	108-90-7	6.50	0.0242		0.000348	0.0010	0.00100
Chlorodibromomethane	124-48-1	5.98	0.0238		0.000327	0.0010	0.00100
Chloroethane	75-00-3	2.29	0.0215		0.000453	0.0050	0.00500
Chloroform	67-66-3	3.97	0.0249		0.000324	0.0050	0.00500
Chloromethane	74-87-3	1.88	0.0223		0.000276	0.0025	0.00250
2-Chlorotoluene	95-49-8	7.50	0.0239		0.000375	0.0010	0.00100
4-Chlorotoluene	106-43-4	7.60	0.0234		0.000351	0.0010	0.00100
Benzene	71-43-2	4.32	0.0213		0.000331	0.0010	0.00100
Dibromomethane	74-95-3	4.90	0.0236		0.000346	0.0010	0.00100
1,2-Dichlorobenzene	95-50-1	8.06	0.0232		0.000349	0.0010	0.00100
1,3-Dichlorobenzene	541-73-1	7.89	0.0215		0.000220	0.0010	0.00100
1,4-Dichlorobenzene	106-46-7	7.93	0.0221		0.000274	0.0010	0.00100
Dichlorodifluoromethane	75-71-8	1.71	0.0285		0.000551	0.0050	0.00500
1,1-Dichloroethane	75-34-3	3.53	0.0228		0.000259	0.0010	0.00100
1,2-Dichloroethane	107-06-2	4.43	0.0268		0.000361	0.0010	0.00100
1,1-Dichloroethene	75-35-4	2.73	0.0201		0.000398	0.0010	0.00100
cis-1,2-Dichloroethene	156-59-2	3.84	0.0227		0.000260	0.0010	0.00100
trans-1,2-Dichloroethene	156-60-5	3.18	0.0222		0.000396	0.0010	0.00100
1,2-Dichloropropane	78-87-5	4.95	0.0224		0.000306	0.0010	0.00100
1,1-Dichloropropene	563-58-6	4.17	0.0240		0.000352	0.0010	0.00100
cis-1,3-Dichloropropene	10061-01-5	5.35	0.0230		0.000418	0.0010	0.00100
trans-1,3-Dichloropropene	10061-02-6	5.75	0.0230		0.000419	0.0010	0.00100
2,2-Dichloropropane	594-20-7	3.90	0.0317	J4	0.000321	0.0010	0.00100
2-Hexanone	591-78-6	6.24	0.0878		0.00382	0.01	0.0100
Isopropylbenzene	98-82-8	7.10	0.0239		0.000326	0.0010	0.00100
p-Isopropyltoluene	99-87-6	7.84	0.0228		0.000350	0.0010	0.00100
2-Butanone (MEK)	78-93-3	4.14	0.0965		0.00393	0.01	0.0100
Methylene Chloride	75-09-2	3.08	0.0214		0.00100	0.0050	0.00500
4-Methyl-2-pentanone (MIBK)	108-10-1	5.70	0.0965		0.00214	0.01	0.0100
Methyl tert-butyl ether	1634-04-4	3.22	0.0221		0.000367	0.0010	0.00100
n-Propylbenzene	103-65-1	7.38	0.0231		0.000349	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3412442-1

Lab Sample ID:	R3412442-1	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0517_03	**Received Date/Time:**	_____
Instrument ID:	VOCMS32	**Preparation Date/Time:**	05/17/19 13:14
Analytical Batch:	WG1283043	**Analysis Date/Time:**	05/17/19 13:14
Dilution Factor:	1	**Prep Method:**	624.1/8260B
Analytical Method:	624.1	**Sample Vol Used:**	5 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Styrene	100-42-5	6.93	0.0232		0.000307	0.0010	0.00100
1,1,1,2-Tetrachloroethane	630-20-6	6.53	0.0251		0.000385	0.0010	0.00100
1,1,2,2-Tetrachloroethane	79-34-5	7.42	0.0183		0.000130	0.0010	0.00100
Ethylbenzene	100-41-4	6.49	0.0231		0.000384	0.0010	0.00100
Tetrachloroethene	127-18-4	5.75	0.0279		0.000372	0.0010	0.00100
1,1,2-Trichlorotrifluoroethane	76-13-1	2.75	0.0237		0.000303	0.0010	0.00100
1,2,3-Trichlorobenzene	87-61-6	8.65	0.0254		0.000230	0.0010	0.00100
1,2,4-Trichlorobenzene	120-82-1	8.49	0.0269		0.000355	0.0010	0.00100
1,1,1-Trichloroethane	71-55-6	4.11	0.0278		0.000319	0.0010	0.00100
1,1,2-Trichloroethane	79-00-5	5.86	0.0210		0.000383	0.0010	0.00100
Trichloroethene	79-01-6	4.64	0.0235		0.000398	0.0010	0.00100
Trichlorofluoromethane	75-69-4	2.39	0.0300		0.00120	0.0050	0.00500
1,2,3-Trichloropropane	96-18-4	7.52	0.0209		0.000807	0.0010	0.00100
1,2,4-Trimethylbenzene	95-63-6	7.73	0.0230		0.000373	0.0010	0.00100
1,3,5-Trimethylbenzene	108-67-8	7.50	0.0234		0.000387	0.0010	0.00100
Vinyl chloride	75-01-4	1.95	0.0241		0.000259	0.0010	0.00100
o-Xylene	95-47-6	6.89	0.0223		0.000341	0.0010	0.00100
m&p-Xylene	1330-20-7	6.58	0.0461		0.000719	0.0020	0.00200
1,3-Dichloropropene	542-75-6	5.75	0.0460		0.000837	0.0020	0.00200
Toluene	108-88-3	5.50	0.0214		0.000412	0.0010	0.00100
Xylenes, Total	1330-20-7	6.89	0.0684		0.00106	0.0030	0.00300

625.1 Semi Volatile Organic Compounds (GC/MS)

2A-OR

SURROGATE RECOVERY

Analytical Method: 625.1 **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	DMC-2	DMC-3	DMC-4	DMC-5	DMC-6	TOT Out
				% Rec.	*% Rec.*	*% Rec.*	*% Rec.*	*% Rec.*	*% Rec.*	
WW-20190515-002 -DAY 13	L1099840-01	BNAMS23	0521_19	43.5	29.5	67.5	63.6	76.0	69.1	0
WW-20190515-002 -DAY 13	L1099840-01	BNAMS20	0522A_06	47.4	30.3	60.7	60.1	49.5	62.7	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	2-Fluorophenol	10.0 - 120
DMC-2	Phenol-d5	8.00 - 424
DMC-3	Nitrobenzene-d5	15.0 - 314
DMC-4	2-Fluorobiphenyl	22.0 - 127
DMC-5	2,4,6-Tribromophenol	10.0 - 153
DMC-6	p-Terphenyl-d14	29.0 - 141

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

2A-OR

SURROGATE RECOVERY

Analytical Method: 625.1 **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	DMC-2	DMC-3	DMC-4	DMC-5	DMC-6	TOT Out
				% Rec.	*% Rec.*	*% Rec.*	*% Rec.*	*% Rec.*	*% Rec.*	
MS	R3413503-3	BNAMS24	0521_18	53.1	63.3	77.9	40.5	30.1	77.5	0
MSD	R3413503-4	BNAMS24	0521_19	96.3	60.7	68.7	3.28*	24.9	78.0	1
BLANK	R3413503-2	BNAMS24	0521_08	70.8	66.6	72.3	24.9	41.1	73.0	0
LCS	R3413503-1	BNAMS24	0521_06	57.2	62.9	70.2	27.4	42.7	71.0	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Nitrobenzene-d5	15.0 - 314
DMC-2	2-Fluorobiphenyl	22.0 - 127
DMC-3	p-Terphenyl-d14	29.0 - 141
DMC-4	Phenol-d5	8.00 - 424
DMC-5	2-Fluorophenol	10.0 - 120
DMC-6	2,4,6-Tribromophenol	10.0 - 153

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413503-3
R3413503-4

MS Sample / File ID:	R3413503-3 / 0521_18	**SDG:**	L1099840
MSD Sample / File ID:	R3413503-4 / 0521_19	**Analytical Batch:**	WG1282671
OS Sample / File ID:	L1099290-02 / 0521_17	**Matrix:**	WW
Instrument ID:	BNAMS24		
Analytical Method:	625.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Acenaphthene	0.0500	U	0.0349	0.0317	69.8	63.4	1	47.0 - 145	9.61	48
Acenaphthylene	0.0500	U	0.0343	0.0324	68.6	64.8	1	33.0 - 145	5.70	74
Aniline	0.0500	U	ND	ND	0.000*	0.000*	1	10.0 - 120	0.000	25
Acetophenone	0.0500	U	0.0480	0.0456	96.0	91.2	1	10.0 - 139	5.13	35
1,2-Diphenylhydrazine	0.0500	U	0.0386	0.0400	77.2	80.0	1	18.0 - 156	3.56	34
Benzyl Alcohol	0.0500	U	0.0688	0.0635	138*	127*	1	17.0 - 120	8.01	40
Anthracene	0.0500	U	0.0360	0.0345	72.0	69.0	1	27.0 - 133	4.26	66
Atrazine	0.0500	U	0.122	0.100	244*	200*	1	39.0 - 130	19.8	30
Benzaldehyde	0.0500	U	0.0519	0.0481	104	96.2	1	10.0 - 160	7.60	30
Benzidine	0.100	U	ND	ND	0.000*	0.000*	1	1.00 - 120	0.000	40
Benzo(a)anthracene	0.0500	U	0.0399	0.0373	79.8	74.6	1	33.0 - 143	6.74	53
Benzo(b)fluoranthene	0.0500	U	0.0383	0.0367	76.6	73.4	1	24.0 - 159	4.27	71
Benzo(k)fluoranthene	0.0500	U	0.0386	0.0356	77.2	71.2	1	11.0 - 162	8.09	63
2-Methylnaphthalene	0.0500	U	0.0289	0.0316	57.8	63.2	1	13.0 - 142	8.93	29
Benzo(a)pyrene	0.0500	U	0.0384	0.0359	76.8	71.8	1	17.0 - 163	6.73	72
Biphenyl	0.0500	U	0.0339	0.0316	67.8	63.2	1	23.0 - 130	7.02	27
Bis(2-chlorethoxy)methane	0.0500	U	0.0336	0.0349	67.2	69.8	1	33.0 - 184	3.80	54
Bis(2-chloroethyl)ether	0.0500	U	0.0448	0.0416	89.6	83.2	1	12.0 - 158	7.41	108
Bis(2-chloroisopropyl)ether	0.0500	U	0.0572	0.0513	114	103	1	36.0 - 166	10.9	76
Caprolactam	0.0500	U	0.00326	0.00779	6.52*	15.6	1	10.0 - 120	82.0*	30
Carbazole	0.0500	U	0.0373	0.0349	74.6	69.8	1	23.0 - 158	6.65	26
4-Chloroaniline	0.0500	U	0.0351	0.0269	70.2	53.8	1	10.0 - 137	26.5	33
2-Chloronaphthalene	0.0500	U	0.0319	0.0301	63.8	60.2	1	60.0 - 120	5.81	24
Pyridine	0.0500	U	0.0208	0.0105	41.6	21.0	1	10.0 - 120	65.8*	40
Chrysene	0.0500	U	0.0373	0.0348	74.6	69.6	1	17.0 - 168	6.93	87
Dibenz(a,h)anthracene	0.0500	U	0.0377	0.0357	75.4	71.4	1	1.00 - 227	5.45	126
Dibenzofuran	0.0500	U	0.0361	0.0335	72.2	67.0	1	17.0 - 150	7.47	27
1-Methylnaphthalene	0.0500	U	0.0302	0.0328	60.4	65.6	1	33.0 - 120	8.25	23
3,3-Dichlorobenzidine	0.100	U	ND	ND	0.000*	0.000*	1	1.00 - 262	0.000	108
2,4-Dinitrotoluene	0.0500	U	0.0396	0.0382	79.2	76.4	1	39.0 - 139	3.60	42
2,6-Dinitrotoluene	0.0500	U	0.0363	0.0348	72.6	69.6	1	50.0 - 158	4.22	48
Fluoranthene	0.0500	U	0.0379	0.0366	75.8	73.2	1	26.0 - 137	3.49	66
Fluorene	0.0500	U	0.0363	0.0345	72.6	69.0	1	59.0 - 121	5.08	38
Hexachlorobenzene	0.0500	U	0.0365	0.0357	73.0	71.4	1	1.00 - 152	2.22	55
Hexachloro-1,3-butadiene	0.0500	U	0.0255	0.0288	51.0	57.6	1	24.0 - 120	12.2	62
Hexachlorocyclopentadiene	0.0500	U	0.0171	0.0156	34.2	31.2	1	10.0 - 146	9.17	34
Hexachloroethane	0.0500	U	0.0361	0.0347	72.2	69.4	1	40.0 - 120	3.95	52
Indeno(1,2,3-cd)pyrene	0.0500	U	0.0379	0.0355	75.8	71.0	1	1.00 - 171	6.54	99
Isophorone	0.0500	U	0.0307	0.0330	61.4	66.0	1	21.0 - 196	7.22	93
Naphthalene	0.0500	U	0.0284	0.0301	56.8	60.2	1	21.0 - 133	5.81	65
2-Nitroaniline	0.0500	U	0.0389	0.0362	77.8	72.4	1	13.0 - 160	7.19	27
3-Nitroaniline	0.0500	U	0.00121	0.0121	2.42*	24.2	1	10.0 - 160	164*	26
4-Nitroaniline	0.0500	U	0.00226	0.00194	4.52*	3.88*	1	17.0 - 160	15.2	29

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413503-3
R3413503-4

MS Sample / File ID:	R3413503-3 / 0521_18	**SDG:**	L1099840
MSD Sample / File ID:	R3413503-4 / 0521_19	**Analytical Batch:**	WG1282671
OS Sample / File ID:	L1099290-02 / 0521_17	**Matrix:**	WW
Instrument ID:	BNAMS24		
Analytical Method:	625.1		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Nitrobenzene	0.0500	U	0.0313	0.0331	62.6	66.2	1	35.0 - 180	5.59	62
n-Nitrosodimethylamine	0.0500	U	0.0385	0.0349	77.0	69.8	1	10.0 - 120	9.81	40
n-Nitrosodiphenylamine	0.0500	U	0.0371	0.0360	74.2	72.0	1	16.0 - 160	3.01	28
n-Nitrosodi-n-propylamine	0.0500	U	0.0650	0.0587	130	117	1	1.00 - 230	10.2	87
Phenanthrene	0.0500	U	0.0355	0.0342	71.0	68.4	1	54.0 - 120	3.73	39
Benzylbutyl phthalate	0.0500	U	0.0416	0.0385	83.2	77.0	1	1.00 - 152	7.74	60
Bis(2-ethylhexyl)phthalate	0.0500	U	0.0452	0.0418	90.4	83.6	1	8.00 - 158	7.82	82
Di-n-butyl phthalate	0.0500	U	0.0410	0.0387	82.0	77.4	1	1.00 - 120	5.77	47
Diethyl phthalate	0.0500	U	0.0403	0.0379	80.6	75.8	1	1.00 - 120	6.14	100
Dimethyl phthalate	0.0500	U	0.0387	0.0362	77.4	72.4	1	1.00 - 120	6.68	183
Pyrene	0.0500	U	0.0373	0.0351	74.6	70.2	1	52.0 - 120	6.08	49
Benzoic Acid	0.100	U	0.342	0.371	342*	371*	1	10.0 - 120	8.13	40
4-Chloro-3-methylphenol	0.0500	U	0.00159	0.0353	3.18*	70.6	1	22.0 - 147	183*	73
2-Chlorophenol	0.0500	U	0.0217	0.0211	43.4	42.2	1	23.0 - 134	2.80	61
2-Methylphenol	0.0500	U	0.0560	0.0522	112	104	1	14.0 - 120	7.02	29
3&4-Methyl Phenol	0.0500	U	0.121	0.110	242*	220*	1	13.0 - 124	9.52	26
2,4-Dichlorophenol	0.0500	U	0.0316	0.0338	63.2	67.6	1	39.0 - 135	6.73	50
2,4-Dimethylphenol	0.0500	U	0.0348	0.0368	69.6	73.6	1	32.0 - 120	5.59	58
4,6-Dinitro-2-methylphenol	0.0500	U	0.0439	0.0441	87.8	88.2	1	1.00 - 181	0.455	203
2,4-Dinitrophenol	0.0500	U	0.0443	0.0439	88.6	87.8	1	1.00 - 191	0.907	132
2-Nitrophenol	0.0500	U	0.0309	0.0340	61.8	68.0	1	29.0 - 182	9.55	55
4-Nitrophenol	0.0500	U	0.00492	0.00445	9.84	8.90	1	1.00 - 132	10.0	131
Pentachlorophenol	0.0500	U	0.0477	0.0465	95.4	93.0	1	14.0 - 176	2.55	86
Phenol	0.0500	0.00209	0.00547	0.00536	6.76	6.54	1	5.00 - 120	2.03	64
1,2,4,5-Tetrachlorobenzene	0.0500	U	0.0361	0.0397	72.2	79.4	1	10.0 - 147	9.50	34
2,4,5-Trichlorophenol	0.0500	U	0.0412	0.0390	82.4	78.0	1	15.0 - 160	5.49	27
2,4,6-Trichlorophenol	0.0500	U	0.0374	0.0352	74.8	70.4	1	37.0 - 144	6.06	58
n-Decane	0.0500	U	0.255	0.247	510*	494*	1	10.0 - 127	3.19	37
n-Octadecane	0.0500	U	0.122	0.120	244*	240*	1	17.0 - 126	1.65	23

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1099840-01

SAMPLE NO.:
R3413503-1

LCS Sample / File ID:	R3413503-1 / 0521_06	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1282671
Instrument ID:	BNAMS24	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Acenaphthene	0.0500	0.0328		65.6		47.0 - 145		
Acenaphthylene	0.0500	0.0341		68.2		33.0 - 145		
Acetophenone	0.0500	0.0319		63.8		28.0 - 120		
Aniline	0.0500	0.0159		31.8		10.0 - 120		
Anthracene	0.0500	0.0346		69.2		27.0 - 133		
Azobenzene	0.0500	0.0369		73.8		37.0 - 125		
Atrazine	0.0500	0.0398		79.6		39.0 - 141		
Benzaldehyde	0.0500	0.0319		63.8		10.0 - 160		
Benzidine	0.100	0.0140		14.0		1.00 - 120		
Benzo(a)anthracene	0.0500	0.0400		80.0		33.0 - 143		
Benzo(b)fluoranthene	0.0500	0.0374		74.8		24.0 - 159		
Benzo(k)fluoranthene	0.0500	0.0385		77.0		11.0 - 162		
Benzo(a)pyrene	0.0500	0.0370		74.0		17.0 - 163		
Biphenyl	0.0500	0.0329		65.8		37.0 - 120		
Bis(2-chlorethoxy)methane	0.0500	0.0302		60.4		1.00 - 219		
Bis(2-chloroethyl)ether	0.0500	0.0316		63.2		33.0 - 185		
Bis(2-chloroisopropyl)ether	0.0500	0.0297		59.4		36.0 - 166		
Caprolactam	0.0500	0.0127		25.4		10.0 - 120		
Carbazole	0.0500	0.0372		74.4		45.0 - 121		
4-Chloroaniline	0.0500	0.0261		52.2		23.0 - 120		
2-Chloronaphthalene	0.0500	0.0317		63.4		60.0 - 120		
Chrysene	0.0500	0.0371		74.2		17.0 - 168		
Dibenz(a,h)anthracene	0.0500	0.0393		78.6		1.00 - 227		
Dibenzofuran	0.0500	0.0345		69.0		42.0 - 120		
3,3-Dichlorobenzidine	0.100	0.0720		72.0		1.00 - 262		
2,4-Dinitrotoluene	0.0500	0.0391		78.2		39.0 - 139		
2,6-Dinitrotoluene	0.0500	0.0365		73.0		50.0 - 158		
Fluoranthene	0.0500	0.0380		76.0		26.0 - 137		
Fluorene	0.0500	0.0361		72.2		59.0 - 121		
Hexachlorobenzene	0.0500	0.0367		73.4		1.00 - 152		
Hexachloro-1,3-butadiene	0.0500	0.0283		56.6		24.0 - 120		
Hexachlorocyclopentadiene	0.0500	0.0268		53.6		10.0 - 120		
Hexachloroethane	0.0500	0.0293		58.6		40.0 - 120		
Indeno(1,2,3-cd)pyrene	0.0500	0.0380		76.0		1.00 - 171		
Isophorone	0.0500	0.0308		61.6		21.0 - 196		
1-Methylnaphthalene	0.0500	0.0294		58.8		33.0 - 120		
2-Methylnaphthalene	0.0500	0.0284		56.8		35.0 - 120		
Naphthalene	0.0500	0.0281		56.2		21.0 - 133		
2-Nitroaniline	0.0500	0.0370		74.0		43.0 - 120		
3-Nitroaniline	0.0500	0.0349		69.8		35.0 - 123		
4-Nitroaniline	0.0500	0.0379		75.8		23.0 - 160		
Nitrobenzene	0.0500	0.0292		58.4		35.0 - 180		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413503-1

LCS Sample / File ID:	R3413503-1 / 0521_06	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1282671
Instrument ID:	BNAMS24	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
n-Nitrosodimethylamine	0.0500	0.0230		46.0		10.0 - 120		
n-Nitrosodiphenylamine	0.0500	0.0344		68.8		44.0 - 120		
n-Nitrosodi-n-propylamine	0.0500	0.0341		68.2		1.00 - 230		
Phenanthrene	0.0500	0.0348		69.6		54.0 - 120		
Benzylbutyl phthalate	0.0500	0.0391		78.2		1.00 - 152		
Bis(2-ethylhexyl)phthalate	0.0500	0.0405		81.0		8.00 - 158		
Di-n-butyl phthalate	0.0500	0.0402		80.4		1.00 - 120		
Diethyl phthalate	0.0500	0.0396		79.2		1.00 - 120		
Dimethyl phthalate	0.0500	0.0363		72.6		1.00 - 120		
Pyrene	0.0500	0.0347		69.4		52.0 - 120		
Pyridine	0.0500	0.00796		15.9		10.0 - 120		
Benzoic Acid	0.100	0.0269		26.9		10.0 - 120		
Benzyl Alcohol	0.0500	0.0309		61.8		20.0 - 120		
4-Chloro-3-methylphenol	0.0500	0.0319		63.8		22.0 - 147		
2-Chlorophenol	0.0500	0.0297		59.4		23.0 - 134		
2-Methylphenol	0.0500	0.0283		56.6		26.0 - 120		
3&4-Methyl Phenol	0.0500	0.0298		59.6		27.0 - 120		
2,4-Dichlorophenol	0.0500	0.0301		60.2		39.0 - 135		
2,4-Dimethylphenol	0.0500	0.0286		57.2		32.0 - 120		
4,6-Dinitro-2-methylphenol	0.0500	0.0463		92.6		1.00 - 181		
2,4-Dinitrophenol	0.0500	0.0438		87.6		1.00 - 191		
2-Nitrophenol	0.0500	0.0319		63.8		29.0 - 182		
4-Nitrophenol	0.0500	0.0169		33.8		1.00 - 132		
Pentachlorophenol	0.0500	0.0397		79.4		14.0 - 176		
Phenol	0.0500	0.0148		29.6		5.00 - 120		
1,2,4,5-Tetrachlorobenzene	0.0500	0.0364		72.8		31.0 - 120		
2,4,5-Trichlorophenol	0.0500	0.0381		76.2		44.0 - 124		
2,4,6-Trichlorophenol	0.0500	0.0346		69.2		37.0 - 144		
n-Decane	0.0500	0.0330		66.0		10.0 - 127		
n-Octadecane	0.0500	0.0371		74.2		17.0 - 126		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1099840-01

SAMPLE NO.:
R3414602-1

LCS Sample / File ID:	R3414602-1 / 0523_09	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1282671
Instrument ID:	BNAMS19	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Pentachlorobenzene	0.0500	0.0339		67.8		10.0 - 151		
n-Nitrosodiethylamine	0.0500	0.0338		67.6		10.0 - 142		
n-Nitrosodi-n-butylamine	0.0500	0.0360		72.0		39.0 - 127		
Hexachlorophene	0.100	ND		0.000*		50.0 - 150		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3414602-2

Lab Sample ID:	R3414602-2	**SDG:**	L1099840
Lab File ID:	0523_12	**Preparation Date/Time:**	05/21/19 08:38
Instrument ID:	BNAMS19	**Analysis Date/Time:**	05/23/19 20:41
Analytical Batch:	WG1282671	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
WW-20190515-002-DAY 13	L1099840-01	BNAMS23	0521_19	05/21/19 22:24
LCS	R3413503-1	BNAMS24	0521_06	05/21/19 23:24
OS	L1099290-02	BNAMS24	0521_17	05/22/19 03:05
MS	R3413503-3	BNAMS24	0521_18	05/22/19 03:25
MSD	R3413503-4	BNAMS24	0521_19	05/22/19 03:45
WW-20190515-002-DAY 13	L1099840-01	BNAMS20	0522A_06	05/22/19 20:52
LCS	R3414602-1	BNAMS19	0523_09	05/23/19 19:39
WW-20190515-002-DAY 13	L1099840-01	BNAMS19	0523_14	05/23/19 21:21

Sample Narrative:

Dilution due to sample volume.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3413503-2

Lab Sample ID:	R3413503-2	**SDG:**	L1099840
Lab File ID:	0521_08	**Preparation Date/Time:**	05/21/19 08:38
Instrument ID:	BNAMS24	**Analysis Date/Time:**	05/22/19 00:04
Analytical Batch:	WG1282671	**Dilution Factor:**	1
Analytical Method:	625.1	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
WW-20190515-002-DAY 13	L1099840-01	BNAMS23	0521_19	05/21/19 22:24
LCS	R3413503-1	BNAMS24	0521_06	05/21/19 23:24
OS	L1099290-02	BNAMS24	0521_17	05/22/19 03:05
MS	R3413503-3	BNAMS24	0521_18	05/22/19 03:25
MSD	R3413503-4	BNAMS24	0521_19	05/22/19 03:45
WW-20190515-002-DAY 13	L1099840-01	BNAMS20	0522A_06	05/22/19 20:52
LCS	R3414602-1	BNAMS19	0523_09	05/23/19 19:39
WW-20190515-002-DAY 13	L1099840-01	BNAMS19	0523_14	05/23/19 21:21

Sample Narrative:

Dilution due to sample volume.

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0522_02-2	**SDG:**	L1099840
Instrument ID:	BNAMS19	**Analytical Method:**	625.1
Analysis Date/Time:	05/22/19 18:00		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	43
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	51
197	198	0	2	0
198	198	50	100	100
199	198	5	9	7
275	198	10	60	24
365	198	1	100	3
441	442	0.0001	24	15
442	198	50	100	73
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-1K1	1K1	0522_03	05/22/19 18:20
STD-2K1	2K1	0522_04	05/22/19 18:40
STD-5K1	5K1	0522_05	05/22/19 19:01
STD-10K1	10K1	0522_06	05/22/19 19:21
STD-20K1	20K1	0522_07	05/22/19 19:42
STD-40K1	40K1	0522_08	05/22/19 20:02
STD-04K2	04K2	0522_09	05/22/19 20:22
STD-.2K2	.2K2	0522_10	05/22/19 20:43
STD-1K2	1K2	0522_11	05/22/19 21:03
STD-2K2	2K2	0522_12	05/22/19 21:23
STD-5K2	5K2	0522_13	05/22/19 21:44
STD-10K2	10K2	0522_14	05/22/19 22:04
STD-20K2	20K2	0522_15	05/22/19 22:24
STD-40K2	40K2	0522_16	05/22/19 22:45
STD-1K3	1K3	0522_17	05/22/19 23:05
STD-2K3	2K3	0522_18	05/22/19 23:25
STD-5K3	5K3	0522_19	05/22/19 23:46
STD-10K3	10K3	0522_20	05/23/19 00:06
STD-20K3	20K3	0522_21	05/23/19 00:26
STD-40K3	40K3	0522_22	05/23/19 00:47
SSCV	BNAMS190522190522_23-2472503	0522_23-2	05/23/19 01:07
SSCV	BNAMS190522190522_23A-2472503	0522_23A-2	05/23/19 01:07
SSCV	BNAMS190522190522_23B-2472503	0522_23B-2	05/23/19 01:07

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0523_02T-2	**SDG:**	L1099840
Instrument ID:	BNAMS19	**Analytical Method:**	625.1
Analysis Date/Time:	05/23/19 17:17		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	40
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	50
197	198	0	2	0
198	198	50	100	100
199	198	5	9	7
275	198	10	60	25
365	198	1	100	3
441	442	0.0001	24	15
442	198	50	100	79
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS190523190523_05-2472503	0523_05-2	05/23/19 18:18
ICV	BNAMS190523190523_06-2472503	0523_06-2	05/23/19 18:38
ICV	BNAMS190523190523_07-2472503	0523_07-2	05/23/19 18:59
LCS	R3414602-1	0523_09	05/23/19 19:39
BLANK	R3414602-2	0523_12	05/23/19 20:41
WW-20190515-002-DAY 13	L1099840-01	0523_14	05/23/19 21:21

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0420_04-2	**SDG:**	L1099840
Instrument ID:	BNAMS20	**Analytical Method:**	625.1
Analysis Date/Time:	04/20/19 13:21		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	36
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	48
197	198	0	2	0
198	198	50	100	100
199	198	5	9	7
275	198	10	60	26
365	198	1	100	3
441	442	0.0001	24	15
442	198	50	100	88
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-40	40	0420_05	04/20/19 13:42
STD-200	200	0420_06	04/20/19 14:03
STD-1000	1000	0420_07	04/20/19 14:24
STD-2000	2000	0420_08	04/20/19 14:45
STD-5000	5000	0420_09	04/20/19 15:06
STD-20000	20000	0420_11	04/20/19 15:49
STD-30000	30000	0420_12	04/20/19 16:10
STD-40000	40000	0420_13	04/20/19 16:31
STD-50000	50000	0420_14	04/20/19 16:52
STD-1K1	1K1	0420_15	04/20/19 17:13
STD-2K1	2K1	0420_16	04/20/19 17:34
STD-5K1	5K1	0420_17	04/20/19 17:55
STD-20K1	20K1	0420_19	04/20/19 18:38
STD-30K1	30K1	0420_20	04/20/19 18:59
STD-40K1	40K1	0420_21	04/20/19 19:20
STD-50K1	50K1	0420_22	04/20/19 19:41
SSCV	BNAMS200420190420_23-2472049	0420_23-2	04/20/19 20:02
SSCV	BNAMS200420190420_24-2472049	0420_24-2	04/20/19 20:23

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0522A_02T	**SDG:**	L1099840
Instrument ID:	BNAMS20	**Analytical Method:**	625.1
Analysis Date/Time:	05/22/19 19:11		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	36
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	51
197	198	0	2	1
198	198	50	100	100
199	198	5	9	7
275	198	10	60	26
365	198	1	100	3
441	442	0.0001	24	15
442	198	50	100	88
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS20052219A0522A_03472049	0522A_03	05/22/19 19:31
ICV	BNAMS20052219A0522A_04472049	0522A_04	05/22/19 19:52
WW-20190515-002-DAY 13	L1099840-01	0522A_06	05/22/19 20:52

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0416_05-2	**SDG:**	L1099840
Instrument ID:	BNAMS23	**Analytical Method:**	625.1
Analysis Date/Time:	04/16/19 10:10		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	442	10	80	39
68	69	0	2	1
69	69	100	100	100
70	69	0	2	0
127	442	10	80	54
197	198	0	2	0
198	442	50	100	88
199	198	5	9	7
275	442	10	60	21
365	198	1	100	3
441	442	0.0001	24	16
442	442	50	100	100
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-40	40	0416_06	04/16/19 10:31
STD-200	200	0416_07	04/16/19 10:52
STD-1000	1000	0416_08	04/16/19 11:14
STD-2000	2000	0416_09	04/16/19 11:35
STD-5000	5000	0416_10	04/16/19 11:56
STD-20000	20000	0416_12	04/16/19 12:38
STD-30000	30000	0416_13	04/16/19 13:00
STD-40000	40000	0416_14	04/16/19 13:21
STD-50000	50000	0416_15	04/16/19 13:42
STD-1K1	1K1	0416_16	04/16/19 14:03
STD-2K1	2K1	0416_17	04/16/19 14:24
STD-5K1	5K1	0416_18	04/16/19 14:46
STD-20K1	20K1	0416_20	04/16/19 15:28
STD-30K1	30K1	0416_21	04/16/19 15:49
STD-40K1	40K1	0416_22	04/16/19 16:10
STD-50K1	50K1	0416_23	04/16/19 16:32
SSCV	BNAMS230416190416_24-2472145	0416_24-2	04/16/19 16:53
SSCV	BNAMS230416190416_25-2472145	0416_25-2	04/16/19 17:14

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0521_02T-1	**SDG:**	L1099840
Instrument ID:	BNAMS23	**Analytical Method:**	625.1
Analysis Date/Time:	05/21/19 12:01		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	39
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	50
197	198	0	2	0
198	198	50	100	100
199	198	5	9	7
275	198	10	60	26
365	198	1	100	4
441	442	0.0001	24	17
442	198	50	100	90
443	442	15	24	20

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS230521190521_03-1472145	0521_03-1	05/21/19 12:22
ICV	BNAMS230521190521_04-1472145	0521_04-1	05/21/19 12:43
WW-20190515-002-DAY 13	L1099840-01	0521_19	05/21/19 22:24

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0512_02-2	**SDG:**	L1099840
Instrument ID:	BNAMS24	**Analytical Method:**	625.1
Analysis Date/Time:	05/12/19 11:43		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	52
68	69	0	2	2
69	69	100	100	100
70	69	0	2	1
127	198	10	80	53
197	198	0	2	0
198	198	50	100	100
199	198	5	9	7
275	198	10	60	23
365	198	1	100	2
441	442	0.0001	24	15
442	198	50	100	94
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
STD-200	200	0512_03	05/12/19 12:05
STD-40	40	0512_04	05/12/19 12:25
STD-1000	1000	0512_05	05/12/19 12:46
STD-2000	2000	0512_06	05/12/19 13:06
STD-5000	5000	0512_07	05/12/19 13:26
STD-10000	10000	0512_08	05/12/19 13:47
STD-20000	20000	0512_09	05/12/19 14:07
STD-30000	30000	0512_10	05/12/19 14:27
STD-40000	40000	0512_11	05/12/19 14:48
STD-50000	50000	0512_12	05/12/19 15:08
STD-1K1	1K1	0512_13	05/12/19 15:29
STD-2K1	2K1	0512_14	05/12/19 15:49
STD-5K1	5K1	0512_15	05/12/19 16:09
STD-10K1	10K1	0512_16	05/12/19 16:30
STD-20K1	20K1	0512_17	05/12/19 16:50
STD-30K1	30K1	0512_18	05/12/19 17:11
STD-40K1	40K1	0512_19	05/12/19 17:31
STD-50K1	50K1	0512_20	05/12/19 17:52
SSCV	BNAMS240512190512_21-2471878	0512_21-2	05/12/19 18:12
SSCV	BNAMS240512190512_22-2471878	0512_22-2	05/12/19 18:33

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0521_02T-2	**SDG:**	L1099840
Instrument ID:	BNAMS24	**Analytical Method:**	625.1
Analysis Date/Time:	05/21/19 22:04		

Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
51	198	10	80	49
68	69	0	2	2
69	69	100	100	100
70	69	0	2	0
127	198	10	80	52
197	198	0	2	0
198	198	50	100	100
199	198	5	9	7
275	198	10	60	23
365	198	1	100	3
441	442	0.0001	24	15
442	198	50	100	95
443	442	15	24	19

Sample ID	Lab Sample ID	File ID	Analysis date/time
ICV	BNAMS240521190521_03-2471878	0521_03-2	05/21/19 22:24
ICV	BNAMS240521190521_04-2471878	0521_04-2	05/21/19 22:44
LCS	R3413503-1	0521_06	05/21/19 23:24
BLANK	R3413503-2	0521_08	05/22/19 00:04
OS	L1099290-02	0521_17	05/22/19 03:05
MS	R3413503-3	0521_18	05/22/19 03:25
MSD	R3413503-4	0521_19	05/22/19 03:45

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	625.1
Instrument ID:	BNAMS19	**Calibration Start Date:**	05/22/19 18:20
Std File:	0523_05-2	**Calibration End Date:**	05/23/19 00:47
		Std Analysis Date:	05/23/19 18:18

Sample ID	File ID	1,4-DCB		ACE		CHR		NAP	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		270548	3.38	539718	5.21	919574	8.79	1155604	4.12
UPPER LIMIT		541096		1079436		1839148		2311208	
LOWER LIMIT		135274		269859		459787		577802	
LCS R3414602-1 WG1282671 1x	0523_09	277154	3.38	548830	5.21	947272	8.78	1146050	4.12
BLANK R3414602-2 WG1282671 1x	0523_12	345240	3.38	696830	5.21	1204812	8.78	1315469	4.12
L1099840-01 WG1282671 1.02x	0523_14	295206	3.38	596596	5.21	1024868	8.78	1128360	4.12

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	625.1
Instrument ID:	BNAMS19	**Calibration Start Date:**	05/22/19 18:20
Std File:	0523_05-2	**Calibration End Date:**	05/23/19 00:47
		Std Analysis Date:	05/23/19 18:18

Sample ID	**File ID**	**PER**		**PHEN**	
		Response	*RT*	*Response*	*RT*
STANDARD		804781	11.33	981310	6.20
UPPER LIMIT		1609562		1962620	
LOWER LIMIT		402391		490655	
LCS R3414602-1 WG1282671 1x	0523_09	816555	11.32	1041464	6.20
BLANK R3414602-2 WG1282671 1x	0523_12	1031252	11.32	1285739	6.20
L1099840-01 WG1282671 1.02x	0523_14	905721	11.32	1130472	6.20

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	625.1
Instrument ID:	BNAMS20	**Calibration Start Date:**	04/20/19 13:42
Std File:	0522A_03	**Calibration End Date:**	05/16/19 09:48
		Std Analysis Date:	05/22/19 19:31

Sample ID	**File ID**	**1,4-DCB**		**ACE**		**CHR**		**NAP**	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		236916	3.20	449464	5.01	684380	8.38	859521	3.94
UPPER LIMIT		473832		898928		1368760		1719042	
LOWER LIMIT		118458		224732		342190		429761	
L1099840-01 WG1282671 1.02x	0522A_06	172151	3.20	321885	5.03	439811	8.49	625175	3.94

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	625.1
Instrument ID:	BNAMS20	**Calibration Start Date:**	04/20/19 13:42
Std File:	0522A_03	**Calibration End Date:**	05/16/19 09:48
		Std Analysis Date:	05/22/19 19:31

Sample ID	**File ID**	**PER**		**PHEN**	
		Response	*RT*	*Response*	*RT*
STANDARD		539331	10.80	782932	5.97
UPPER LIMIT		1078662		1565864	
LOWER LIMIT		269666		391466	
L1099840-01 WG1282671 1.02x	0522A_06	369291	10.88	560396	6.03

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	625.1
Instrument ID:	BNAMS23	**Calibration Start Date:**	04/16/19 10:31
Std File:	0521_03-1	**Calibration End Date:**	05/17/19 13:02
		Std Analysis Date:	05/21/19 12:22

Sample ID	File ID	1,4-DCB		ACE		CHR		NAP	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		288108	3.16	592643	4.99	1149847	8.45	1080996	3.89
UPPER LIMIT		576216		1185286		2299694		2161992	
LOWER LIMIT		144054		296322		574924		540498	
L1099840-01 WG1282671 1.02x	0521_19	243498	3.16	499986	5.05	956899	8.67	902928	3.90

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	625.1
Instrument ID:	BNAMS23	**Calibration Start Date:**	04/16/19 10:31
Std File:	0521_03-1	**Calibration End Date:**	05/17/19 13:02
		Std Analysis Date:	05/21/19 12:22

Sample ID	File ID	PER		PHEN	
		Response	*RT*	*Response*	*RT*
STANDARD		1068373	10.84	1129616	5.99
UPPER LIMIT		2136746		2259232	
LOWER LIMIT		534187		564808	
L1099840-01 WG1282671 1.02x	0521_19	927729	11	898273	6.14

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	625.1
Instrument ID:	BNAMS24	**Calibration Start Date:**	05/12/19 12:05
Std File:	0521_03-2	**Calibration End Date:**	05/12/19 17:52
		Std Analysis Date:	05/21/19 22:24

Sample ID	File ID	1,4-DCB		ACE		CHR		NAP	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		192926	3.29	379208	5.13	630363	8.65	735034	4.03
UPPER LIMIT		385852		758416		1260726		1470068	
LOWER LIMIT		96463		189604		315182		367517	
LCS R3413503-1 WG1282671 1x	0521_06	152683	3.29	298097	5.12	516214	8.63	637599	4.03
BLANK R3413503-2 WG1282671 1x	0521_08	196439	3.29	386988	5.12	648146	8.62	748646	4.03
OS L1099290-02 WG1282671 1x	0521_17	201864	3.29	389969	5.12	677432	8.62	774935	4.03
MS R3413503-3 WG1282671 1x	0521_18	115276	3.30	323540	5.12	498049	8.63	693552	4.04
MSD R3413503-4 WG1282671 1x	0521_19	128402	3.30	353924	5.13	542525	8.64	669627	4.04

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	625.1
Instrument ID:	BNAMS24	**Calibration Start Date:**	05/12/19 12:05
Std File:	0521_03-2	**Calibration End Date:**	05/12/19 17:52
		Std Analysis Date:	05/21/19 22:24

Sample ID	**File ID**	**PER**		**PHEN**	
		Response	*RT*	*Response*	*RT*
STANDARD		552080	11.13	721794	6.12
UPPER LIMIT		1104160		1443588	
LOWER LIMIT		276040		360897	
LCS R3413503-1 WG1282671 1x	0521_06	482697	11.11	575547	6.10
BLANK R3413503-2 WG1282671 1x	0521_08	621544	11.11	736689	6.10
OS L1099290-02 WG1282671 1x	0521_17	643402	11.10	760390	6.10
MS R3413503-3 WG1282671 1x	0521_18	444475	11.13	605082	6.10
MSD R3413503-4 WG1282671 1x	0521_19	471646	11.13	647358	6.11

1,4-DCB - 1,4-DICHLOROBENZENE-D4 ACE - ACENAPHTHENE-D10
CHR - CHRYSENE-D12 NAP - NAPHTHALENE-D8
PER - PERYLENE-D12 PHEN - PHENANTHRENE-D10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0523_14	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/21/19 08:39
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/23/19 21:21
Dilution Factor:	1.02	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	98 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
Hexachlorophene	70-30-4	0	U	J4	0.00147	0.0500	0.0510
n-Nitrosodiethylamine	55-18-5	0	U		0.000507	0.0100	0.0102
n-Nitrosodi-n-butylamine	924-16-3	0	U		0.000338	0.0100	0.0102
Pentachlorobenzene	608-93-5	0	U		0.000376	0.0100	0.0102

Sample Narrative:

Dilution due to sample volume.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0522A_06	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	BNAMS20	**Preparation Date/Time:**	05/21/19 08:39
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/22/19 20:52
Dilution Factor:	1.02	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	98 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
4-Nitrophenol	100-02-7	0	U		0.00205	0.0100	0.0102

Sample Narrative:

Dilution due to sample volume.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0521_19	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	BNAMS23	**Preparation Date/Time:**	05/21/19 08:39
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/21/19 22:24
Dilution Factor:	1.02	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	98 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acenaphthene	83-32-9	5.05	U		0.000322	0.00100	0.00102
Acenaphthylene	208-96-8	0	U		0.000315	0.00100	0.00102
Acetophenone	98-86-2	3.38	U		0.00276	0.0100	0.0102
Aniline	62-53-3	0	U		0.00248	0.0100	0.0102
Anthracene	120-12-7	6.19	U		0.000297	0.00100	0.00102
Atrazine	1912-24-9	5.91	U		0.000265	0.0100	0.0102
Benzaldehyde	100-52-7	2.92	U		0.00143	0.0100	0.0102
Benzidine	92-87-5	0	U		0.00441	0.0100	0.0102
Benzo(a)anthracene	56-55-3	0	U		0.0000995	0.00100	0.00102
Benzo(b)fluoranthene	205-99-2	0	U		0.0000914	0.00100	0.00102
Benzo(k)fluoranthene	207-08-9	0	U		0.000362	0.00100	0.00102
Benzo(a)pyrene	50-32-8	0	U		0.000347	0.00100	0.00102
Benzoic acid	65-85-0	3.77	U		0.00449	0.0100	0.0102
Benzyl alcohol	100-51-6	0	U		0.000401	0.0100	0.0102
Biphenyl	92-52-4	0	U		0.000332	0.0100	0.0102
Bis(2-chlorethoxy)methane	111-91-1	3.69	U		0.000336	0.0100	0.0102
Bis(2-chloroethyl)ether	111-44-4	3	U		0.00165	0.0100	0.0102
Bis(2-chloroisopropyl)ether	39638-32-9	0	U		0.000454	0.0100	0.0102
Caprolactam	105-60-2	4.15	U		0.00264	0.0100	0.0102
Carbazole	86-74-8	6.29	U		0.000265	0.0100	0.0102
4-Chloroaniline	106-47-8	0	U		0.000390	0.0100	0.0102
2-Chloronaphthalene	91-58-7	4.69	U		0.000337	0.00100	0.00102
Chrysene	218-01-9	8.70	U		0.000339	0.00100	0.00102
n-Decane	124-18-5	3.03	U		0.000608	0.0100	0.0102
Dibenz(a,h)anthracene	53-70-3	13.02	U		0.000285	0.00100	0.00102
Dibenzofuran	132-64-9	0	U		0.000345	0.0100	0.0102
3,3-Dichlorobenzidine	91-94-1	0	U		0.00206	0.0100	0.0102
2,4-Dinitrotoluene	121-14-2	5.12	U		0.00168	0.0100	0.0102
2,6-Dinitrotoluene	606-20-2	0	U		0.000285	0.0100	0.0102
1,2-Diphenylhydrazine	103-33-3	5.55	U		0.000324	0.0100	0.0102
Fluoranthene	206-44-0	7.15	U		0.000316	0.00100	0.00102
Fluorene	86-73-7	5.40	U		0.000329	0.00100	0.00102
Hexachlorobenzene	118-74-1	0	U		0.000348	0.00100	0.00102
Hexachloro-1,3-butadiene	87-68-3	0	U		0.000336	0.0100	0.0102
Hexachlorocyclopentadiene	77-47-4	0	U		0.00238	0.0100	0.0102
Hexachloroethane	67-72-1	0	U		0.000372	0.0100	0.0102
Indeno(1,2,3-cd)pyrene	193-39-5	12.83	U		0.000285	0.00100	0.00102
Isophorone	78-59-1	3.61	U		0.000277	0.0100	0.0102
1-Methylnaphthalene	90-12-0	0	U		0.000339	0.00100	0.00102
2-Methylnaphthalene	91-57-6	0	U		0.000317	0.00100	0.00102
2-Nitroaniline	88-74-4	0	U		0.00194	0.0100	0.0102
3-Nitroaniline	99-09-2	5.04	U		0.000314	0.0100	0.0102
4-Nitroaniline	100-01-6	0	U		0.000356	0.0100	0.0102

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0521_19	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	BNAMS23	**Preparation Date/Time:**	05/21/19 08:39
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/21/19 22:24
Dilution Factor:	1.02	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	98 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Naphthalene	91-20-3	3.91	U		0.000379	0.00100	0.00102
Nitrobenzene	98-95-3	3.47	U		0.000374	0.0100	0.0102
n-Nitrosodimethylamine	62-75-9	1.92	U		0.00129	0.0100	0.0102
n-Nitrosodiphenylamine	86-30-6	5.62	U		0.00121	0.0100	0.0102
n-Nitrosodi-n-propylamine	621-64-7	3.41	U		0.000411	0.0100	0.0102
Phenanthrene	85-01-8	6.19	U		0.000373	0.00100	0.00102
Pyridine	110-86-1	1.93	U		0.00140	0.0100	0.0102
Benzylbutyl phthalate	85-68-7	7.97	U		0.000281	0.00300	0.00306
Bis(2-Ethylhexyl)phthalate	117-81-7	8.75	U		0.000723	0.00300	0.00306
Di-n-butyl phthalate	84-74-2	6.60	0.000442	J	0.000271	0.00300	0.00306
Diethyl phthalate	84-66-2	5.34	U		0.000288	0.00300	0.00306
Dimethyl phthalate	131-11-3	4.85	U		0.000289	0.00300	0.00306
n-Octadecane	593-45-3	6.06	U		0.000385	0.0100	0.0102
Pyrene	129-00-0	0	U		0.000337	0.00100	0.00102
1,2,4,5-Tetrachlorobenzene	95-94-3	0	U		0.00246	0.0100	0.0102
4-Chloro-3-methylphenol	59-50-7	4.27	U		0.000268	0.0100	0.0102
2-Chlorophenol	95-57-8	0	U		0.000289	0.0100	0.0102
2,4-Dichlorophenol	120-83-2	3.83	U		0.000290	0.0100	0.0102
2,4-Dimethylphenol	105-67-9	0	U		0.000636	0.0100	0.0102
4,6-Dinitro-2-methylphenol	534-52-1	0	U		0.00267	0.0100	0.0102
2,4-Dinitrophenol	51-28-5	0	U		0.00332	0.0100	0.0102
2-Methylphenol	95-48-7	3.35	U		0.000318	0.0100	0.0102
3&4-Methyl Phenol	3&4-Methyl Phenol	3.41	U		0.000271	0.0100	0.0102
2-Nitrophenol	88-75-5	0	U		0.000326	0.0100	0.0102
Pentachlorophenol	87-86-5	0	U		0.000319	0.0100	0.0102
Phenol	108-95-2	3	0.00165	B J	0.000341	0.0100	0.0102
2,4,5-Trichlorophenol	95-95-4	0	U		0.000241	0.0100	0.0102
2,4,6-Trichlorophenol	88-06-2	0	U		0.000303	0.0100	0.0102

Sample Narrative:

Dilution due to sample volume.

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS19

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 40K1**	**RRF: 04K2**	**RRF: .2K2**	**RRF: 1K2**	**RRF: 2K2**
Analysis date/time	05/22/19 18:20	05/22/19 18:40	05/22/19 19:01	05/22/19 19:21	05/22/19 19:42	05/22/19 20:02	05/22/19 20:22	05/22/19 20:43	05/22/19 21:03	05/22/19 21:23
N-NITROSODIETHYLAMINE	0.7060	0.69	0.68	0.7040	0.6860	0.65				
N-NITROSODI-N-BUTYLAMINE	0.2660	0.2560	0.2410	0.2390	0.2060					
HEXACHLOROPHENE	23.90	30.53	40.98	57.81	73.41	91.63				
PENTACHLOROBENZENE							0.5530	0.4740	0.5090	0.4810
File ID:	0522_03	0522_04	0522_05	0522_06	0522_07	0522_08	0522_09	0522_10	0522_11	0522_12

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1
Instrument ID: BNAMS19

Analyte	**RRF: 5K2**	**RRF: 10K2**	**RRF: 20K2**	**RRF: 40K2**	**RRF. Avg**	**%RSD**	**COD**
Analysis date/time	05/22/19 21:44	05/22/19 22:04	05/22/19 22:24	05/22/19 22:45			
N-NITROSODIETHYLAMINE					0.686102	2.98	
N-NITROSODI-N-BUTYLAMINE					0.241512	9.37	
HEXACHLOROPHENE					53.04316	49.36	0.999
PENTACHLOROBENZENE	0.4670	0.50	0.47	0.4640	0.489917	6.19	
File ID:	0522_13	0522_14	0522_15	0522_16			

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS20

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	04/20/19 13:42	04/20/19 14:03	04/20/19 14:24	04/20/19 14:45	04/20/19 15:06	05/16/19 09:27	04/20/19 15:49	04/20/19 16:10	04/20/19 16:31	04/20/19 16:52
NAPHTHALENE	1.0770	1.0330	1.0480	1.0630	1.0460	1.08	0.9440	0.9590	0.9220	0.85
2-METHYLNAPHTHALENE	0.6610	0.6330	0.6640	0.6930	0.6860	0.7120	0.6350	0.6460	0.6230	0.5930
1-METHYLNAPHTHALENE	0.68	0.6230	0.6260	0.6620	0.6560	0.6740	0.6050	0.6190	0.5950	0.5610
2-CHLORONAPHTHALENE	1.1740	1.1340	1.1730	1.2010	1.2060	1.2730	1.1270	1.1710	1.11	1.0810
ACENAPHTHYLENE	1.8120	1.7410	1.7930	1.8910	1.9070	1.97	1.7520	1.7590	1.6870	1.5780
ACENAPHTHENE	1.2680	1.2080	1.2020	1.23	1.2410	1.2770	1.13	1.1570	1.1110	1.0520
FLUORENE	1.4060	1.3110	1.3270	1.3930	1.3860	1.4210	1.2560	1.2820	1.2420	1.15
PHENANTHRENE	1.2180	1.1280	1.0990	1.1260	1.1030	1.1530	1.0020	1.02	0.9820	0.9130
ANTHRACENE	1.0790	1.0450	1.0840	1.1470	1.1490	1.1850	1.0460	1.0510	1.0050	0.9280
FLUORANTHENE	1.0250	0.9570	1.0170	1.0890	1.1070	1.1650	1.0280	1.0520	1.0250	0.9630
PYRENE	1.2040	1.1360	1.2570	1.3170	1.3210	1.4160	1.3040	1.3470	1.3160	1.3050
BENZO(A)ANTHRACENE	1.5250	1.0390	1.0060	1.0450	1.0660	1.1430	1.0430	1.0960	1.0990	1.0870
CHRYSENE	1.1230	1.0770	1.1060	1.1430	1.1210	1.1820	1.0640	1.1130	1.0960	1.0680
BENZO(B)FLUORANTHENE	0.9740	0.9010	1.0380	1.1410	1.1690	1.2830	1.2160	1.2820	1.3080	1.27
BENZO(K)FLUORANTHENE	1.0170	1.0250	1.1420	1.2080	1.2640	1.3330	1.2150	1.2890	1.2790	1.2820
BENZO(A)PYRENE	0.75	0.8170	1.02	1.0840	1.1320	1.2210	1.1340	1.1990	1.2020	1.2010
INDENO(1,2,3-CD)PYRENE	0.5350	0.6060	0.6910	0.7520	0.8080	0.9160	0.8370	0.9160	0.9390	
DIBENZ(A,H)ANTHRACENE	0.5140	0.7090	0.8040	0.84	0.88	0.9640	0.8750	0.9320	0.94	
PYRIDINE		1.41	1.3080	1.4020	1.4350	1.4650	1.3430	1.4270	1.4260	1.3850
ANILINE		0.7510	0.6540	0.7180	0.7450	0.7460	0.6950	0.7430	0.7340	0.7150
BIS(2-CHLOROETHYL)ETHER		0.9690	0.8660	0.9530	0.9240	0.96	0.8860	0.9520	0.9260	0.9010
PHENOL		1.4840	1.4790	1.6040	1.6340	1.6750	1.5410	1.62	1.5960	1.5610
2-CHLOROPHENOL		1.2140	1.2730	1.3570	1.38	1.4430	1.3160	1.3680	1.36	1.3070
N-DECANE		0.8450	0.65	0.6840	0.6920	0.6860	0.5970	0.6120	0.5790	0.5370
BENZYL ALCOHOL		0.9250	0.8960	1.0230	1.0580	1.0770	1.0190	1.0720	1.0510	1.0410
BIS(2-CHLOROISOPROPYL)ETHER		0.44	0.4560	0.4940	0.4950	0.5070	0.4660	0.4820	0.4780	0.4760
2-METHYLPHENOL		1.1270	1.1330	1.2190	1.2280	1.25	1.1610	1.2030	1.1950	1.1650
HEXACHLOROETHANE		0.5760	0.5510	0.5840	0.5930	0.61	0.5550	0.5770	0.57	0.5530
N-NITROSODI-N-PROPYLAMINE		0.8670	0.8220	0.9330	0.9690	0.9630	0.9180	0.9580	0.9350	0.9090
3&4-METHYL PHENOL		1.1790	1.2340	1.3560	1.3580	1.3910	1.2870	1.3430	1.3180	1.3060
NITROBENZENE		0.3380	0.3260	0.3480	0.3520	0.3630	0.3340	0.3490	0.3430	0.3340
ISOPHORONE		0.6360	0.6230	0.67	0.6780	0.70	0.64	0.6720	0.6610	0.6430
2-NITROPHENOL		0.1380	0.1550	0.17	0.18	0.1970	0.1850	0.1980	0.1970	0.1980
2,4-DIMETHYLPHENOL		0.2960	0.3160	0.3420	0.3410	0.3540	0.3220	0.3420	0.3360	0.3280
BIS(2-CHLORETHOXY)METHANE		0.41	0.3880	0.4240	0.4260	0.44	0.3970	0.4160	0.4080	0.3890
2,4-DICHLOROPHENOL		0.24	0.2540	0.2730	0.2760	0.2940	0.2720	0.2860	0.2870	0.2850
4-CHLOROANILINE		0.12	0.1110	0.1230	0.1240	0.1250	0.1170	0.1230	0.1210	0.1140
HEXACHLORO-1,3-BUTADIENE		0.1440	0.1570	0.1620	0.1570	0.1650	0.1490	0.1570	0.1550	0.1560
4-CHLORO-3-METHYLPHENOL		0.26	0.2490	0.28	0.2870	0.3030	0.2790	0.2950	0.29	0.2820
HEXACHLOROCYCLOPENTADIENE		0.2970	0.3390	0.3480	0.3740	0.4210	0.3870	0.4150	0.4150	0.4220
2,4,6-TRICHLOROPHENOL		0.30	0.3410	0.3580	0.3710	0.4020	0.40	0.4120	0.4020	0.40
2,4,5-TRICHLOROPHENOL		0.3160	0.3540	0.3810	0.3940	0.4310	0.37	0.4070	0.41	0.4130
BIPHENYL		1.5490	1.5570	1.6130	1.6120	1.6730	1.4680	1.5130	1.4360	1.2960
2-NITROANILINE		0.3090	0.3540	0.3970	0.4330	0.4690	0.4360	0.4720	0.4660	0.4570
DIMETHYL PHTHALATE		1.3490	1.3620	1.4430	1.4220	1.4620	1.28	1.3210	1.28	1.21
2,6-DINITROTOLUENE		0.2510	0.2950	0.3310	0.3440	0.3590	0.3280	0.3460	0.3410	0.3310
3-NITROANILINE		0.2830	0.3390	0.3780	0.3920	0.4090	0.3730	0.40	0.3860	0.3790
DIBENZOFURAN		1.6450	1.6460	1.6980	1.6950	1.7360	1.5220	1.5770	1.48	1.4140
2,4-DINITROTOLUENE		0.2910	0.3670	0.42	0.4410	0.47	0.4320	0.4610	0.4580	0.4420
4-NITROPHENOL		0.2130	0.2530	0.3030	0.3240	0.35	0.3230	0.3510	0.3440	0.3190

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS20

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	04/20/19 13:42	04/20/19 14:03	04/20/19 14:24	04/20/19 14:45	04/20/19 15:06	05/16/19 09:27	04/20/19 15:49	04/20/19 16:10	04/20/19 16:31	04/20/19 16:52
DIETHYL PHTHALATE		1.38	1.3510	1.4750	1.4580	1.4910	1.3260	1.3610	1.3060	1.2090
4-NITROANILINE		0.3180	0.3660	0.41	0.4270	0.4520	0.3990	0.4280	0.4220	0.4040
AZOBENZENE		1.4650	1.3440	1.47	1.4770	1.4850	1.3230	1.3560	1.3070	1.3310
N-NITROSODIPHENYLAMINE		0.5940	0.6460	0.6750	0.6910	0.7220	0.6570	0.6630	0.6510	0.6380
HEXACHLOROBENZENE		0.2120	0.2210	0.2320	0.23	0.2410	0.2250	0.2360	0.2360	0.2360
N-OCTADECANE		0.1290	0.11	0.1230	0.13	0.1330	0.1250	0.1250	0.1190	0.1160
PENTACHLOROPHENOL		0.0740	0.1020	0.1210	0.13	0.15	0.1440	0.1540	0.1550	0.16
CARBAZOLE		0.9620	0.9880	1.0450	1.0550	1.1030	0.9740	1.0060	0.9580	0.8970
DI-N-BUTYL PHTHALATE		1.1440	1.1680	1.3050	1.3450	1.4080	1.23	1.2280	1.1320	1.0410
BENZYLBUTYL PHTHALATE		0.4530	0.5360	0.6020	0.6520	0.70	0.6730	0.72	0.7150	0.7080
BIS(2-ETHYLHEXYL)PHTHALATE		0.6490	0.7350	0.8370	0.8920	0.98	0.9290	0.9780	0.95	0.9120
2-FLUOROPHENOL		1.0630	1.1150	1.1990	1.2310	1.2850	1.1670	1.2270	1.23	1.2030
PHENOL-D5		1.4830	1.4110	1.5660	1.6090	1.6520	1.5360	1.6160	1.6070	1.5780
NITROBENZENE-D5		0.3690	0.3570	0.3750	0.3880	0.4080	0.3720	0.3970	0.3920	0.3840
2-FLUOROBIPHENYL		1.3410	1.3580	1.3990	1.4060	1.4670	1.2880	1.3340	1.2820	1.2130
P-TERPHENYL-D14		0.7990	0.9090	0.9580	0.9560	1.0220	0.96	0.9920	0.98	0.9620
N-NITROSODIMETHYLAMINE			0.7190	0.6920	0.6840	0.6790	0.6130	0.6450	0.63	0.6170
2,4,6-TRIBROMOPHENOL			0.0970	0.1060	0.1110	0.1240	0.1180	0.1250	0.1270	0.13
2,4-DINITROPHENOL				0.1110	0.1440	0.1820	0.1880	0.2110	0.2140	0.2130
4,6-DINITRO-2-METHYLPHENOL				0.0890	0.1130	0.1330	0.1330	0.1450	0.1470	0.1510
BENZALDEHYDE										
ACETOPHENONE										
BENZOIC ACID										
CAPROLACTAM										
1,2,4,5-TETRACHLOROBENZENE										
ATRAZINE										
BENZIDINE										
3,3-DICHLOROBENZIDINE										
File ID:	0420_05	0420_06	0420_07	0420_08	0420_09	0516_03	0420_11	0420_12	0420_13	0420_14

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS20

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/20/19 17:13	04/20/19 17:34	04/20/19 17:55	05/16/19 09:48	04/20/19 18:38	04/20/19 18:59	04/20/19 19:20	04/20/19 19:41
NAPHTHALENE								
2-METHYLNAPHTHALENE								
1-METHYLNAPHTHALENE								
2-CHLORONAPHTHALENE								
ACENAPHTHYLENE								
ACENAPHTHENE								
FLUORENE								
PHENANTHRENE								
ANTHRACENE								
FLUORANTHENE								
PYRENE								
BENZO(A)ANTHRACENE								
CHRYSENE								
BENZO(B)FLUORANTHENE								
BENZO(K)FLUORANTHENE								
BENZO(A)PYRENE								
INDENO(1,2,3-CD)PYRENE								
DIBENZ(A,H)ANTHRACENE								
PYRIDINE								
ANILINE								
BIS(2-CHLOROETHYL)ETHER								
PHENOL								
2-CHLOROPHENOL								
N-DECANE								
BENZYL ALCOHOL								
BIS(2-CHLOROISOPROPYL)ETHER								
2-METHYLPHENOL								
HEXACHLOROETHANE								
N-NITROSODI-N-PROPYLAMINE								
3&4-METHYL PHENOL								
NITROBENZENE								
ISOPHORONE								
2-NITROPHENOL								
2,4-DIMETHYLPHENOL								
BIS(2-CHLORETHOXY)METHANE								
2,4-DICHLOROPHENOL								
4-CHLOROANILINE								
HEXACHLORO-1,3-BUTADIENE								
4-CHLORO-3-METHYLPHENOL								
HEXACHLOROCYCLOPENTADIENE								
2,4,6-TRICHLOROPHENOL								
2,4,5-TRICHLOROPHENOL								
BIPHENYL								
2-NITROANILINE								
DIMETHYL PHTHALATE								
2,6-DINITROTOLUENE								
3-NITROANILINE								
DIBENZOFURAN								
2,4-DINITROTOLUENE								
4-NITROPHENOL								

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS20

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/20/19 17:13	04/20/19 17:34	04/20/19 17:55	05/16/19 09:48	04/20/19 18:38	04/20/19 18:59	04/20/19 19:20	04/20/19 19:41
DIETHYL PHTHALATE								
4-NITROANILINE								
AZOBENZENE								
N-NITROSODIPHENYLAMINE								
HEXACHLOROBENZENE								
N-OCTADECANE								
PENTACHLOROPHENOL								
CARBAZOLE								
DI-N-BUTYL PHTHALATE								
BENZYLBUTYL PHTHALATE								
BIS(2-ETHYLHEXYL)PHTHALATE								
2-FLUOROPHENOL								
PHENOL-D5								
NITROBENZENE-D5								
2-FLUOROBIPHENYL								
P-TERPHENYL-D14								
N-NITROSODIMETHYLAMINE								
2,4,6-TRIBROMOPHENOL								
2,4-DINITROPHENOL								
4,6-DINITRO-2-METHYLPHENOL								
BENZALDEHYDE	0.7040	0.7130	0.7180	0.7280	0.7310	0.7240	0.7010	0.6890
ACETOPHENONE	1.67	1.6920	1.6890	1.7070	1.7140	1.7060	1.61	1.5780
BENZOIC ACID	0.1620	0.1730	0.1990	0.2150	0.2080	0.1960	0.1780	0.1730
CAPROLACTAM	0.1080	0.1080	0.1140	0.1120	0.10	0.09	0.08	0.0740
1,2,4,5-TETRACHLOROBENZENE	0.2790	0.2780	0.2660	0.2610	0.2280	0.2010		
ATRAZINE	0.3390	0.3450	0.3760	0.3980	0.3970	0.4010	0.3930	0.3810
BENZIDINE	0.6310	0.6940	0.7940	0.8620	0.8990	0.8860	0.8830	0.8470
3,3-DICHLOROBENZIDINE	0.3830	0.3890	0.4210	0.4550	0.46	0.4620	0.4660	0.4570
File ID:	0420_15	0420_16	0420_17	0516_04	0420_19	0420_20	0420_21	0420_22

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1
Instrument ID: BNAMS20

Analyte Analysis date/time	RRF. Avg	%RSD	COD
NAPHTHALENE	1.002202	7.81	
2-METHYLNAPHTHALENE	0.654623	5.51	
1-METHYLNAPHTHALENE	0.630056	5.98	
2-CHLORONAPHTHALENE	1.165021	4.74	
ACENAPHTHYLENE	1.788928	6.37	
ACENAPHTHENE	1.18756	6.15	
FLUORENE	1.31728	6.6	
PHENANTHRENE	1.074487	8.58	
ANTHRACENE	1.071932	7.07	
FLUORANTHENE	1.042766	6.11	
PYRENE	1.292223	5.99	
BENZO(A)ANTHRACENE	1.114805	13.39	
CHRYSENE	1.10935	3.26	
BENZO(B)FLUORANTHENE	1.158223	12.35	
BENZO(K)FLUORANTHENE	1.205394	9.18	
BENZO(A)PYRENE	1.075837	15.51	0.999
INDENO(1,2,3-CD)PYRENE	0.777656	18.49	0.997
DIBENZ(A,H)ANTHRACENE	0.828661	17.06	0.999
PYRIDINE	1.400208	3.46	
ANILINE	0.722341	4.36	
BIS(2-CHLOROETHYL)ETHER	0.92646	3.85	
PHENOL	1.577069	4.23	
2-CHLOROPHENOL	1.335373	4.99	
N-DECANE	0.653479	13.7	
BENZYL ALCOHOL	1.017976	6.31	
BIS(2-CHLOROISOPROPYL)ETHER	0.477251	4.36	
2-METHYLPHENOL	1.186765	3.61	
HEXACHLOROETHANE	0.574203	3.45	
N-NITROSODI-N-PROPYLAMINE	0.919471	5.25	
3&4-METHYL PHENOL	1.308018	5.08	
NITROBENZENE	0.34292	3.32	
ISOPHORONE	0.658186	3.7	
2-NITROPHENOL	0.179699	12.04	
2,4-DIMETHYLPHENOL	0.330795	5.25	
BIS(2-CHLORETHOXY)METHANE	0.410809	4.26	
2,4-DICHLOROPHENOL	0.274079	6.35	
4-CHLOROANILINE	0.119891	3.97	
HEXACHLORO-1,3-BUTADIENE	0.155639	4.08	
4-CHLORO-3-METHYLPHENOL	0.280533	5.97	
HEXACHLOROCYCLOPENTADIENE	0.379841	11.63	
2,4,6-TRICHLOROPHENOL	0.37607	9.95	
2,4,5-TRICHLOROPHENOL	0.386272	9.14	
BIPHENYL	1.524235	7.42	
2-NITROANILINE	0.421474	13.54	
DIMETHYL PHTHALATE	1.347595	6.25	
2,6-DINITROTOLUENE	0.325116	10.16	
3-NITROANILINE	0.370988	10.36	
DIBENZOFURAN	1.601315	6.87	
2,4-DINITROTOLUENE	0.420131	13.57	
4-NITROPHENOL	0.3089	15.14	
DIETHYL PHTHALATE	1.372993	6.61	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1
Instrument ID: BNAMS20

Analyte Analysis date/time	RRF. Avg	%RSD	COD
4-NITROANILINE	0.402822	9.84	
AZOBENZENE	1.395352	5.47	
N-NITROSODIPHENYLAMINE	0.659854	5.42	
HEXACHLOROBENZENE	0.229865	3.91	
N-OCTADECANE	0.12324	6.01	
PENTACHLOROPHENOL	0.132288	21.84	0.998
CARBAZOLE	0.998675	6.15	
DI-N-BUTYL PHTHALATE	1.222419	9.44	
BENZYLBUTYL PHTHALATE	0.639877	14.48	
BIS(2-ETHYLHEXYL)PHTHALATE	0.873457	13.05	
2-FLUOROPHENOL	1.191047	5.63	
PHENOL-D5	1.561908	4.82	
NITROBENZENE-D5	0.382392	4.09	
2-FLUOROBIPHENYL	1.343223	5.68	
P-TERPHENYL-D14	0.948803	6.73	
N-NITROSODIMETHYLAMINE	0.659847	5.9	
2,4,6-TRIBROMOPHENOL	0.117229	9.95	
2,4-DINITROPHENOL	0.180455	21.84	0.998
4,6-DINITRO-2-METHYLPHENOL	0.130058	17.14	0.999
BENZALDEHYDE	0.713559	2.06	
ACETOPHENONE	1.670776	2.99	
BENZOIC ACID	0.187791	10.15	
CAPROLACTAM	0.098556	15.32	
1,2,4,5-TETRACHLOROBENZENE	0.252273	12.46	
ATRAZINE	0.378652	6.43	
BENZIDINE	0.812023	12.2	
3,3-DICHLOROBENZIDINE	0.436677	7.86	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	04/16/19 10:31	04/16/19 10:52	04/16/19 11:14	04/16/19 11:35	04/16/19 11:56	05/17/19 12:41	04/16/19 12:38	04/16/19 13:00	04/16/19 13:21	04/16/19 13:42
NAPHTHALENE	1.1470	1.0990	1.0650	1.0840	1.0880	1.1890	1.1370	0.9910	0.7730	0.7960
2-METHYLNAPHTHALENE	0.6250	0.6250	0.6170	0.6310	0.6560	0.7310	0.73	0.7040	0.5840	0.5920
1-METHYLNAPHTHALENE	0.5740	0.5910	0.5890	0.6060	0.62	0.6960	0.6940	0.68	0.57	0.5780
2-CHLORONAPHTHALENE	0.9970	1.0780	1.0980	1.1140	1.1340	1.3280	1.3420	1.3410	1.21	1.1940
ACENAPHTHYLENE	1.6440	1.7250	1.7980	1.85	1.8690	2.1590	2.0740	1.9160	1.6110	1.6740
ACENAPHTHENE	1.1490	1.2690	1.2080	1.2420	1.2770	1.4820	1.4960	1.4220	1.2050	1.2510
FLUORENE	1.1770	1.2430	1.2280	1.2770	1.3430	1.6290	1.6660	1.5870	1.3670	1.3690
PHENANTHRENE	1.1130	1.0350	1.0170	1.0710	1.0970	1.2130	1.19	1.10	0.9360	0.9430
ANTHRACENE	0.9480	0.9620	1.0230	1.0630	1.1320	1.2640	1.2250	1.1670	0.9010	0.9290
FLUORANTHENE	0.8940	0.9210	0.9380	1.0280	1.0430	1.1970	1.2290	1.2030	1.02	1.0460
PYRENE	1.1010	1.1780	1.1470	1.2130	1.2060	1.3090	1.2680	1.2070	1.0910	1.0460
BENZO(A)ANTHRACENE	1.55	1.0770	1.0120	1.0270	1.0320	1.1220	1.1190	1.1120	1.0730	1.0650
CHRYSENE	1.0790	1.0490	1.0450	1.09	1.0840	1.19	1.2010	1.17	1.1040	1.0920
BIS(2-ETHYLHEXYL)PHTHALATE	0.6960	0.6190	0.7220	0.7740	0.8660	0.9950	1.0130	1.0440	0.9770	0.9430
BENZO(B)FLUORANTHENE	0.99	0.9530	0.9930	1.0350	1.0570	1.19	1.2360	1.2840	1.3130	1.3330
BENZO(K)FLUORANTHENE	0.88	0.9690	1.0160	1.0890	1.1350	1.2850	1.3150	1.3240	1.3190	1.3180
BENZO(A)PYRENE	0.7550	0.8340	0.9420	0.9910	1.0390	1.1850	1.2230	1.2410	1.2650	1.2750
INDENO(1,2,3-CD)PYRENE	0.74	0.8460	0.8570	0.9110	0.9330	1.0260	1.0460	1.0830	1.2040	
DIBENZ(A,H)ANTHRACENE	0.6880	0.8620	0.9060	0.9640	0.9950	1.1050	1.16	1.1980	1.2670	1.28
PYRIDINE		1.3220	1.2670	1.3260	1.3170	1.4720	1.4350	1.4370	1.3940	1.4070
N-NITROSODIMETHYLAMINE		0.8170	0.6220	0.6220	0.6010	0.6520	0.6450	0.6180	0.62	0.6150
ANILINE		0.5560	0.5740	0.6180	0.6250	0.7010	0.7010	0.6990	0.7140	0.7070
BIS(2-CHLOROETHYL)ETHER		0.8440	0.8140	0.8530	0.8580	0.9450	0.95	0.9370	0.9770	0.95
PHENOL		1.5770	1.5850	1.6490	1.6850	1.8890	1.9040	1.9150	1.8960	1.8350
2-CHLOROPHENOL		1.2870	1.3060	1.3660	1.3950	1.5930	1.6320	1.6530	1.5470	1.5420
N-DECANE		0.6520	0.62	0.6510	0.67	0.7670	0.7610	0.7460	0.7030	0.7040
BENZYL ALCOHOL		0.8950	0.9330	0.9620	0.9990	1.12	1.1230	1.1260	1.1570	1.1190
BIS(2-CHLOROISOPROPYL)ETHER		0.5010	0.4660	0.4710	0.4790	0.5250	0.5260	0.53	0.5490	0.5370
2-METHYLPHENOL		1.1450	1.18	1.2470	1.2790	1.43	1.44	1.4240	1.3840	1.38
HEXACHLOROETHANE		0.6170	0.58	0.60	0.6320	0.7060	0.7110	0.7280	0.7180	0.7150
N-NITROSODI-N-PROPYLAMINE		0.8810	0.8290	0.8270	0.8730	0.9620	0.97	0.9710	1.0310	0.9740
3&4-METHYL PHENOL		1.3810	1.3720	1.4580	1.4970	1.6570	1.67	1.6290	1.6280	1.58
NITROBENZENE		0.3230	0.3240	0.34	0.3380	0.3810	0.3870	0.3880	0.3750	0.3760
ISOPHORONE		0.5590	0.5730	0.5990	0.63	0.6960	0.69	0.6880	0.6690	0.6550
2,4-DIMETHYLPHENOL		0.3030	0.3220	0.3340	0.3470	0.3970	0.4110	0.4170	0.4030	0.3990
BIS(2-CHLORETHOXY)METHANE		0.3820	0.3790	0.4010	0.4080	0.45	0.4530	0.4580	0.4330	0.4270
2,4-DICHLOROPHENOL		0.2370	0.2320	0.2430	0.2530	0.2770	0.2880	0.2970	0.2950	0.2880
4-CHLOROANILINE		0.0920	0.0930	0.1030	0.1040	0.12	0.1230	0.1280	0.1320	0.1280
HEXACHLORO-1,3-BUTADIENE		0.1260	0.1190	0.1240	0.1240	0.1430	0.1480	0.1580	0.1650	0.1610
4-CHLORO-3-METHYLPHENOL		0.2250	0.2460	0.2550	0.27	0.3060	0.3210	0.3320	0.3360	0.3270
BIPHENYL		1.5030	1.4970	1.56	1.5480	1.7930	1.79	1.6840	1.3180	1.37
DIMETHYL PHTHALATE		1.1720	1.1960	1.2380	1.2460	1.4270	1.4440	1.40	1.2750	1.2770
3-NITROANILINE		0.2980	0.34	0.3660	0.3770	0.4320	0.4380	0.4470	0.4670	0.4590
DIBENZOFURAN		1.5490	1.5260	1.5920	1.5860	1.80	1.7940	1.7130	1.4270	1.4760
DIETHYL PHTHALATE		1.1770	1.2250	1.2710	1.3010	1.4750	1.5120	1.4870	1.2970	1.3250
AZOBENZENE		1.3010	1.3780	1.4610	1.4850	1.6790	1.71	1.6080	1.3920	1.3680
N-NITROSODIPHENYLAMINE		0.5530	0.5850	0.6130	0.6380	0.7190	0.7140	0.7310	0.6510	0.6570
HEXACHLOROBENZENE		0.1820	0.1780	0.1830	0.1880	0.2160	0.2340	0.2540		
N-OCTADECANE		0.1010	0.1050	0.1110	0.1150	0.1320	0.1370			
CARBAZOLE		0.9040	0.9820	1.0380	1.0670	1.22	1.1840	1.1210	0.9460	0.9630

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	04/16/19 10:31	04/16/19 10:52	04/16/19 11:14	04/16/19 11:35	04/16/19 11:56	05/17/19 12:41	04/16/19 12:38	04/16/19 13:00	04/16/19 13:21	04/16/19 13:42
DI-N-BUTYL PHTHALATE		1.0090	1.0810	1.1980	1.2620	1.4830	1.4250	1.2790	0.9830	
BENZYLBUTYL PHTHALATE		0.4480	0.5290	0.5530	0.5970	0.6660	0.6830	0.6930	0.6910	0.6760
2-FLUOROPHENOL		1.1790	1.1720	1.2240	1.2380	1.3660	1.3460	1.3540	1.2980	1.3050
PHENOL-D5		1.5590	1.5380	1.6220	1.6510	1.8210	1.8450	1.8520	1.8840	1.8380
NITROBENZENE-D5		0.3640	0.3640	0.38	0.3860	0.4290	0.4320	0.4370	0.3810	0.3650
2-FLUOROBIPHENYL		1.2760	1.2560	1.3110	1.3180	1.5220	1.4980	1.4450	1.2030	1.23
P-TERPHENYL-D14		0.74	0.74	0.79	0.8040	0.8940	0.9150	0.91	0.8410	0.8240
2-NITROPHENOL			0.1530	0.1680	0.1780	0.2070	0.2160	0.2240	0.2250	0.2220
2-NITROANILINE			0.3920	0.4160	0.4360	0.5070	0.5250	0.54	0.5580	0.5430
2,6-DINITROTOLUENE			0.27	0.2810	0.2870	0.3260	0.3370	0.35	0.3880	0.3690
2,4-DINITROTOLUENE			0.3370	0.36	0.3720	0.4240	0.44	0.4570	0.4970	0.4940
4-NITROPHENOL			0.2640	0.2920	0.3040	0.3570	0.3740	0.3780	0.3910	0.3980
4,6-DINITRO-2-METHYLPHENOL			0.0710	0.0820	0.0940	0.1110	0.1190	0.1290	0.1470	0.1440
PENTACHLOROPHENOL			0.0830	0.0930	0.1020	0.12	0.1280	0.1430		
HEXACHLOROCYCLOPENTADIENE				0.3240	0.3380	0.4040	0.4310	0.4630	0.4620	0.4660
2,4,6-TRICHLOROPHENOL				0.3020	0.3180	0.3710	0.4160	0.4170		
2,4,5-TRICHLOROPHENOL				0.3180	0.3270	0.3830	0.3740	0.4210	0.4190	0.4420
2,4-DINITROPHENOL				0.1130	0.1340	0.1820	0.2150	0.24	0.2470	
4-NITROANILINE				0.4170	0.4580	0.5670	0.5870	0.5670	0.5540	0.5570
2,4,6-TRIBROMOPHENOL				0.0880	0.0940	0.1150	0.12	0.1350		
BENZALDEHYDE										
ACETOPHENONE										
BENZOIC ACID										
CAPROLACTAM										
1,2,4,5-TETRACHLOROBENZENE										
ATRAZINE										
BENZIDINE										
3,3-DICHLOROBENZIDINE										
File ID:	0416_06	0416_07	0416_08	0416_09	0416_10	0517_03	0416_12	0416_13	0416_14	0416_15

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/16/19 14:03	04/16/19 14:24	04/16/19 14:46	05/17/19 13:02	04/16/19 15:28	04/16/19 15:49	04/16/19 16:10	04/16/19 16:32
NAPHTHALENE								
2-METHYLNAPHTHALENE								
1-METHYLNAPHTHALENE								
2-CHLORONAPHTHALENE								
ACENAPHTHYLENE								
ACENAPHTHENE								
FLUORENE								
PHENANTHRENE								
ANTHRACENE								
FLUORANTHENE								
PYRENE								
BENZO(A)ANTHRACENE								
CHRYSENE								
BIS(2-ETHYLHEXYL)PHTHALATE								
BENZO(B)FLUORANTHENE								
BENZO(K)FLUORANTHENE								
BENZO(A)PYRENE								
INDENO(1,2,3-CD)PYRENE								
DIBENZ(A,H)ANTHRACENE								
PYRIDINE								
N-NITROSODIMETHYLAMINE								
ANILINE								
BIS(2-CHLOROETHYL)ETHER								
PHENOL								
2-CHLOROPHENOL								
N-DECANE								
BENZYL ALCOHOL								
BIS(2-CHLOROISOPROPYL)ETHER								
2-METHYLPHENOL								
HEXACHLOROETHANE								
N-NITROSODI-N-PROPYLAMINE								
3&4-METHYL PHENOL								
NITROBENZENE								
ISOPHORONE								
2,4-DIMETHYLPHENOL								
BIS(2-CHLORETHOXY)METHANE								
2,4-DICHLOROPHENOL								
4-CHLOROANILINE								
HEXACHLORO-1,3-BUTADIENE								
4-CHLORO-3-METHYLPHENOL								
BIPHENYL								
DIMETHYL PHTHALATE								
3-NITROANILINE								
DIBENZOFURAN								
DIETHYL PHTHALATE								
AZOBENZENE								
N-NITROSODIPHENYLAMINE								
HEXACHLOROBENZENE								
N-OCTADECANE								
CARBAZOLE								

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	04/16/19 14:03	04/16/19 14:24	04/16/19 14:46	05/17/19 13:02	04/16/19 15:28	04/16/19 15:49	04/16/19 16:10	04/16/19 16:32
DI-N-BUTYL PHTHALATE								
BENZYLBUTYL PHTHALATE								
2-FLUOROPHENOL								
PHENOL-D5								
NITROBENZENE-D5								
2-FLUOROBIPHENYL								
P-TERPHENYL-D14								
2-NITROPHENOL								
2-NITROANILINE								
2,6-DINITROTOLUENE								
2,4-DINITROTOLUENE								
4-NITROPHENOL								
4,6-DINITRO-2-METHYLPHENOL								
PENTACHLOROPHENOL								
HEXACHLOROCYCLOPENTADIENE								
2,4,6-TRICHLOROPHENOL								
2,4,5-TRICHLOROPHENOL								
2,4-DINITROPHENOL								
4-NITROANILINE								
2,4,6-TRIBROMOPHENOL								
BENZALDEHYDE	0.7570	0.7610	0.7440	0.8240	0.8380	0.8690	0.92	0.92
ACETOPHENONE	1.8270	1.8430	1.9040	2.11	2.14	2.2330	2.1680	2.2230
BENZOIC ACID	0.1910	0.1860	0.1990	0.1990	0.1750	0.16	0.1550	0.1420
CAPROLACTAM	0.1060	0.1040	0.1080	0.1040	0.09	0.08	0.0720	
1,2,4,5-TETRACHLOROBENZENE	0.2270	0.2220	0.2210	0.2140	0.1880	0.1740	0.1630	
ATRAZINE		0.2880	0.3120	0.3590	0.38	0.4060	0.4290	
BENZIDINE		0.6110	0.71	0.8420	0.8940	0.97	0.9460	0.9530
3,3-DICHLOROBENZIDINE		0.0630	0.0720	0.0810	0.0850	0.0940	0.1020	0.1050
File ID:	0416_16	0416_17	0416_18	0517_04	0416_20	0416_21	0416_22	0416_23

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1
Instrument ID: BNAMS23

Analyte Analysis date/time	RRF. Avg	%RSD	COD
NAPHTHALENE	1.036904	13.8	
2-METHYLNAPHTHALENE	0.649426	8.35	
1-METHYLNAPHTHALENE	0.619905	8.19	
2-CHLORONAPHTHALENE	1.183795	10.23	
ACENAPHTHYLENE	1.831859	9.9	
ACENAPHTHENE	1.300169	9.39	
FLUORENE	1.388442	12.74	
PHENANTHRENE	1.071696	8.6	
ANTHRACENE	1.061432	12.23	
FLUORANTHENE	1.051793	11.51	
PYRENE	1.176635	6.94	
BENZO(A)ANTHRACENE	1.118993	13.97	
CHRYSENE	1.110404	5.08	
BIS(2-ETHYLHEXYL)PHTHALATE	0.864903	17.55	0.997
BENZO(B)FLUORANTHENE	1.138536	12.97	
BENZO(K)FLUORANTHENE	1.164881	14.53	
BENZO(A)PYRENE	1.074977	17.67	0.998
INDENO(1,2,3-CD)PYRENE	0.960718	14.79	
DIBENZ(A,H)ANTHRACENE	1.042455	18.47	0.996
PYRIDINE	1.375299	5.04	
N-NITROSODIMETHYLAMINE	0.645631	10.25	
ANILINE	0.655076	9.51	
BIS(2-CHLOROETHYL)ETHER	0.90295	6.64	
PHENOL	1.770643	8.15	
2-CHLOROPHENOL	1.480093	9.6	
N-DECANE	0.697191	7.57	
BENZYL ALCOHOL	1.047936	9.56	
BIS(2-CHLOROISOPROPYL)ETHER	0.509472	6.1	
2-METHYLPHENOL	1.323366	8.54	
HEXACHLOROETHANE	0.66733	8.86	
N-NITROSODI-N-PROPYLAMINE	0.924281	7.87	
3&4-METHYL PHENOL	1.541321	7.59	
NITROBENZENE	0.358925	7.65	
ISOPHORONE	0.639798	8.14	
2,4-DIMETHYLPHENOL	0.370388	11.76	
BIS(2-CHLORETHOXY)METHANE	0.421141	7.14	
2,4-DICHLOROPHENOL	0.267648	9.85	
4-CHLOROANILINE	0.113683	13.7	
HEXACHLORO-1,3-BUTADIENE	0.140862	12.9	
4-CHLORO-3-METHYLPHENOL	0.291071	14.47	
BIPHENYL	1.562679	10.72	
DIMETHYL PHTHALATE	1.297185	7.8	
3-NITROANILINE	0.40256	14.8	
DIBENZOFURAN	1.607065	8.33	
DIETHYL PHTHALATE	1.340898	9.04	
AZOBENZENE	1.486889	9.85	
N-NITROSODIPHENYLAMINE	0.651138	9.5	
HEXACHLOROBENZENE	0.205161	14.53	
N-OCTADECANE	0.116779	12.49	
CARBAZOLE	1.047274	10.49	
DI-N-BUTYL PHTHALATE	1.215082	15.14	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS23

Analyte Analysis date/time	RRF. Avg	%RSD	COD
BENZYLBUTYL PHTHALATE	0.615006	14.32	
2-FLUOROPHENOL	1.27561	5.87	
PHENOL-D5	1.734388	8.04	
NITROBENZENE-D5	0.392969	7.82	
2-FLUOROBIPHENYL	1.340042	8.84	
P-TERPHENYL-D14	0.828816	8.13	
2-NITROPHENOL	0.199126	14.37	
2-NITROANILINE	0.489833	13.24	
2,6-DINITROTOLUENE	0.326228	13.29	
2,4-DINITROTOLUENE	0.422598	14.37	
4-NITROPHENOL	0.344819	14.73	
4,6-DINITRO-2-METHYLPHENOL	0.112128	24.84	0.992
PENTACHLOROPHENOL	0.111538	20.29	0.993
HEXACHLOROCYCLOPENTADIENE	0.41257	14.52	
2,4,6-TRICHLOROPHENOL	0.364775	14.74	
2,4,5-TRICHLOROPHENOL	0.383431	12.45	
2,4-DINITROPHENOL	0.188528	29.45	0.993
4-NITROANILINE	0.529689	12.25	
2,4,6-TRIBROMOPHENOL	0.110431	17.27	0.994
BENZALDEHYDE	0.829204	8.56	
ACETOPHENONE	2.055843	8.27	
BENZOIC ACID	0.175817	12.23	
CAPROLACTAM	0.094785	15.1	
1,2,4,5-TETRACHLOROBENZENE	0.201136	12.87	
ATRAZINE	0.362229	14.91	
BENZIDINE	0.846735	16.21	0.999
3,3-DICHLOROBENZIDINE	0.085927	17.92	0.994

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS24

Analyte	RRF: 40	RRF: 200	RRF: 1000	RRF: 2000	RRF: 5000	RRF: 10000	RRF: 20000	RRF: 30000	RRF: 40000	RRF: 50000
Analysis date/time	05/12/19 12:25	05/12/19 12:05	05/12/19 12:46	05/12/19 13:06	05/12/19 13:26	05/12/19 13:47	05/12/19 14:07	05/12/19 14:27	05/12/19 14:48	05/12/19 15:08
NAPHTHALENE	1.0060	1.0040	1.1470	1.0810	1.0110	0.9990	0.9810	1.0030	0.9180	0.9030
2-METHYLNAPHTHALENE	0.8010	0.63	0.7460	0.7120	0.6780	0.6550	0.6440	0.6480	0.6140	0.6020
1-METHYLNAPHTHALENE	0.6180	0.6210	0.6990	0.6740	0.6290	0.6130	0.6070	0.6190	0.5810	0.5730
2-CHLORONAPHTHALENE	1.5020	1.1580	1.3770	1.2450	1.2010	1.17	1.1370	1.1780	1.08	1.0660
ACENAPHTHYLENE	2.1160	1.9610	2.2650	2.1360	2.0590	2.0080	1.9410	2.0050	1.8220	1.8410
ACENAPHTHENE	1.4510	1.26	1.4090	1.3590	1.2830	1.2190	1.1920	1.2020	1.1240	1.1210
FLUORENE	1.5680	1.2730	1.5920	1.5040	1.4480	1.36	1.3210	1.3710	1.2650	1.2740
PHENANTHRENE	1.2470	1.0190	1.1950	1.1180	1.0660	1.0180	0.9980	1.0320	0.9530	0.9540
ANTHRACENE	1.1350	1.0780	1.2180	1.1580	1.0960	1.0450	1.0370	1.0750	0.99	0.97
FLUORANTHENE	1.0060	1.0170	1.2250	1.1910	1.1440	1.1060	1.0880	1.1270	1.0520	1.0560
PYRENE	1.4910	1.3620	1.5640	1.4150	1.3650	1.3680	1.3860	1.4090	1.3160	1.2940
BENZO(A)ANTHRACENE	1.7480	1.1830	1.2490	1.1710	1.1360	1.1150	1.11	1.1710	1.0880	1.0820
CHRYSENE	1.0670	1.10	1.3110	1.2260	1.1640	1.1320	1.11	1.1590	1.0740	1.0650
BENZO(B)FLUORANTHENE	1.1830	1.0530	1.2250	1.1720	1.1590	1.1410	1.1680	1.2330	1.1790	1.1540
BENZO(K)FLUORANTHENE	1.0610	1.0550	1.3280	1.2540	1.1960	1.1810	1.1870	1.2230	1.1310	1.1730
BENZO(A)PYRENE	0.9830	0.9760	1.2020	1.1760	1.1470	1.13	1.1630	1.2160	1.1350	1.1330
INDENO(1,2,3-CD)PYRENE	0.7950	0.7930	0.9430	0.98	0.9250	0.9420	0.9540	1.03	0.99	1.0140
DIBENZ(A,H)ANTHRACENE	0.7480	0.7480	0.9980	1.0240	0.9610	0.9430	0.9670	1.0330	0.9570	0.9610
DIMETHYL PHTHALATE		1.2460	1.4660	1.3640	1.3410	1.3030	1.2740	1.2910	1.2110	1.2440
DIETHYL PHTHALATE		1.2110	1.4880	1.4320	1.3970	1.3420	1.3150	1.3450	1.2760	1.2970
HEXACHLOROBENZENE		0.1940	0.2190	0.2090	0.2040	0.1980	0.1950	0.2050	0.1890	0.1890
PENTACHLOROPHENOL		0.07	0.0930	0.0970	0.0970	0.1020	0.11	0.1180	0.1110	0.1150
DI-N-BUTYL PHTHALATE		1.1070	1.3130	1.3310	1.2980	1.2320	1.2110	1.2730	1.1880	1.1890
BENZYLBUTYL PHTHALATE		0.5360	0.6670	0.6410	0.6510	0.6590	0.6660	0.6990	0.6610	0.6570
BIS(2-ETHYLHEXYL)PHTHALATE		0.70	0.9010	0.9070	0.9160	0.8990	0.9040	0.9570	0.9120	0.9020
PYRIDINE			1.6340	1.49	1.4170	1.4240	1.4730	1.4930	1.4150	1.3920
N-NITROSODIMETHYLAMINE			0.8020	0.88	0.7320	0.7250	0.7540	0.7750	0.74	0.7260
ANILINE			0.9030	0.8270	0.8030	0.8010	0.8240	0.8480	0.8010	0.80
BIS(2-CHLOROETHYL)ETHER			1.3520	1.2260	1.1610	1.1430	1.1690	1.2150	1.1440	1.1140
PHENOL			1.8430	1.7270	1.6220	1.6020	1.64	1.6760	1.5740	1.5750
2-CHLOROPHENOL			1.4130	1.3350	1.2870	1.2720	1.29	1.29	1.2220	1.2080
N-DECANE			1.0110	0.8690	0.8260	0.8260	0.8160	0.8180	0.7650	0.7510
BENZYL ALCOHOL			1.26	1.1960	1.1020	1.11	1.1210	1.1410	1.0880	1.0810
BIS(2-CHLOROISOPROPYL)ETHER			0.4940	0.4870	0.4390	0.4310	0.4380	0.44	0.4140	0.4160
2-METHYLPHENOL			1.3860	1.3010	1.2180	1.1890	1.20	1.2110	1.1420	1.1230
HEXACHLOROETHANE			0.6350	0.6090	0.5570	0.5420	0.5550	0.5570	0.5270	0.5220
N-NITROSODI-N-PROPYLAMINE			1.1310	1.0440	0.95	0.9490	0.9470	0.9580	0.9250	0.9260
3&4-METHYL PHENOL			1.5270	1.4140	1.3460	1.3070	1.3370	1.3470	1.2720	1.2760
NITROBENZENE			0.4020	0.3740	0.3620	0.3550	0.3610	0.3740	0.3520	0.3430
ISOPHORONE			0.7580	0.7320	0.6920	0.6730	0.6710	0.69	0.6580	0.6540
2-NITROPHENOL			0.17	0.1560	0.1630	0.1680	0.1720	0.1790	0.1710	0.1670
2,4-DIMETHYLPHENOL			0.3830	0.3490	0.3460	0.3390	0.3340	0.3430	0.3210	0.3190
BIS(2-CHLORETHOXY)METHANE			0.4530	0.4410	0.42	0.4070	0.4070	0.4120	0.3920	0.3860
2,4-DICHLOROPHENOL			0.2810	0.2820	0.27	0.2620	0.2640	0.2720	0.2560	0.2530
4-CHLOROANILINE			0.1520	0.1430	0.1380	0.1330	0.1360	0.1360	0.1290	0.13
HEXACHLORO-1,3-BUTADIENE			0.1630	0.1580	0.15	0.1440	0.1450	0.1520	0.1420	0.1380
4-CHLORO-3-METHYLPHENOL			0.3020	0.2930	0.2820	0.2830	0.2850	0.2890	0.2790	0.2750
HEXACHLOROCYCLOPENTADIENE			0.3890	0.3580	0.3690	0.37	0.3820	0.3940	0.3610	0.3680
2,4,6-TRICHLOROPHENOL			0.3810	0.3440	0.3510	0.3460	0.3510	0.3870	0.3510	0.3440
2,4,5-TRICHLOROPHENOL			0.3760	0.3730	0.3640	0.3660	0.3660	0.3620	0.3430	0.3530

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS24

Analyte	**RRF: 40**	**RRF: 200**	**RRF: 1000**	**RRF: 2000**	**RRF: 5000**	**RRF: 10000**	**RRF: 20000**	**RRF: 30000**	**RRF: 40000**	**RRF: 50000**
Analysis date/time	05/12/19 12:25	05/12/19 12:05	05/12/19 12:46	05/12/19 13:06	05/12/19 13:26	05/12/19 13:47	05/12/19 14:07	05/12/19 14:27	05/12/19 14:48	05/12/19 15:08
BIPHENYL			1.8680	1.7360	1.6710	1.5990	1.5670	1.58	1.46	1.4120
2-NITROANILINE			0.4040	0.4060	0.4160	0.4240	0.4280	0.4520	0.4210	0.4280
2,6-DINITROTOLUENE			0.2990	0.30	0.2990	0.3090	0.3030	0.3170	0.2950	0.3040
3-NITROANILINE			0.3620	0.3590	0.37	0.3690	0.3660	0.3760	0.3590	0.3660
DIBENZOFURAN			1.9510	1.8660	1.7920	1.6910	1.66	1.7220	1.5850	1.6020
2,4-DINITROTOLUENE			0.3630	0.3830	0.3810	0.3960	0.3960	0.4150	0.3940	0.40
4-NITROPHENOL			0.2750	0.2770	0.2880	0.2880	0.2970	0.3140	0.2990	0.2920
4-NITROANILINE			0.3950	0.3920	0.3910	0.3920	0.3880	0.4020	0.3810	0.3890
AZOBENZENE			1.6620	1.5380	1.5050	1.4480	1.4150	1.4480	1.3550	1.3640
N-NITROSODIPHENYLAMINE			0.7330	0.6980	0.6640	0.6360	0.6380	0.6570	0.6070	0.5990
N-OCTADECANE			0.1660	0.1610	0.1550	0.1530	0.1520	0.1570	0.1450	0.1410
CARBAZOLE			1.1550	1.0920	1.0660	1.02	0.9940	1.0360	0.9690	0.9450
2-FLUOROPHENOL			1.2730	1.1990	1.1470	1.1640	1.1790	1.2030	1.1290	1.1320
PHENOL-D5			1.8650	1.6740	1.6130	1.5950	1.6270	1.6620	1.5640	1.5480
NITROBENZENE-D5			0.3760	0.3630	0.3580	0.36	0.3610	0.3770	0.3370	0.34
2-FLUOROBIPHENYL			1.6450	1.5110	1.4410	1.4150	1.3660	1.3960	1.2770	1.2810
2,4,6-TRIBROMOPHENOL			0.0890	0.0890	0.0880	0.0920	0.0940	0.10	0.0940	0.0940
P-TERPHENYL-D14			0.95	0.8830	0.8420	0.85	0.8470	0.8810	0.8170	0.8110
2,4-DINITROPHENOL				0.1010	0.1180	0.1330	0.1530	0.1660	0.1680	0.1780
4,6-DINITRO-2-METHYLPHENOL				0.07	0.0840	0.09	0.1010	0.1120	0.1070	0.1090
BENZALDEHYDE										
ACETOPHENONE										
BENZOIC ACID										
CAPROLACTAM										
1,2,4,5-TETRACHLOROBENZENE										
ATRAZINE										
BENZIDINE										
3,3-DICHLOROBENZIDINE										
File ID:	0512_04	0512_03	0512_05	0512_06	0512_07	0512_08	0512_09	0512_10	0512_11	0512_12

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS24

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	05/12/19 15:29	05/12/19 15:49	05/12/19 16:09	05/12/19 16:30	05/12/19 16:50	05/12/19 17:11	05/12/19 17:31	05/12/19 17:52
NAPHTHALENE								
2-METHYLNAPHTHALENE								
1-METHYLNAPHTHALENE								
2-CHLORONAPHTHALENE								
ACENAPHTHYLENE								
ACENAPHTHENE								
FLUORENE								
PHENANTHRENE								
ANTHRACENE								
FLUORANTHENE								
PYRENE								
BENZO(A)ANTHRACENE								
CHRYSENE								
BENZO(B)FLUORANTHENE								
BENZO(K)FLUORANTHENE								
BENZO(A)PYRENE								
INDENO(1,2,3-CD)PYRENE								
DIBENZ(A,H)ANTHRACENE								
DIMETHYL PHTHALATE								
DIETHYL PHTHALATE								
HEXACHLOROBENZENE								
PENTACHLOROPHENOL								
DI-N-BUTYL PHTHALATE								
BENZYLBUTYL PHTHALATE								
BIS(2-ETHYLHEXYL)PHTHALATE								
PYRIDINE								
N-NITROSODIMETHYLAMINE								
ANILINE								
BIS(2-CHLOROETHYL)ETHER								
PHENOL								
2-CHLOROPHENOL								
N-DECANE								
BENZYL ALCOHOL								
BIS(2-CHLOROISOPROPYL)ETHER								
2-METHYLPHENOL								
HEXACHLOROETHANE								
N-NITROSODI-N-PROPYLAMINE								
3&4-METHYL PHENOL								
NITROBENZENE								
ISOPHORONE								
2-NITROPHENOL								
2,4-DIMETHYLPHENOL								
BIS(2-CHLORETHOXY)METHANE								
2,4-DICHLOROPHENOL								
4-CHLOROANILINE								
HEXACHLORO-1,3-BUTADIENE								
4-CHLORO-3-METHYLPHENOL								
HEXACHLOROCYCLOPENTADIENE								
2,4,6-TRICHLOROPHENOL								
2,4,5-TRICHLOROPHENOL								

6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1

Instrument ID: BNAMS24

Analyte	**RRF: 1K1**	**RRF: 2K1**	**RRF: 5K1**	**RRF: 10K1**	**RRF: 20K1**	**RRF: 30K1**	**RRF: 40K1**	**RRF: 50K1**
Analysis date/time	05/12/19 15:29	05/12/19 15:49	05/12/19 16:09	05/12/19 16:30	05/12/19 16:50	05/12/19 17:11	05/12/19 17:31	05/12/19 17:52
BIPHENYL								
2-NITROANILINE								
2,6-DINITROTOLUENE								
3-NITROANILINE								
DIBENZOFURAN								
2,4-DINITROTOLUENE								
4-NITROPHENOL								
4-NITROANILINE								
AZOBENZENE								
N-NITROSODIPHENYLAMINE								
N-OCTADECANE								
CARBAZOLE								
2-FLUOROPHENOL								
PHENOL-D5								
NITROBENZENE-D5								
2-FLUOROBIPHENYL								
2,4,6-TRIBROMOPHENOL								
P-TERPHENYL-D14								
2,4-DINITROPHENOL								
4,6-DINITRO-2-METHYLPHENOL								
BENZALDEHYDE	1.1320	1.0120	0.9750	1.0030	0.9710	0.9630	0.8990	0.9050
ACETOPHENONE	2.1090	1.8420	1.7460	1.8110	1.7610	1.7590	1.6270	1.6540
BENZOIC ACID	0.2160	0.1880	0.1990	0.2150	0.1850	0.1840	0.1670	0.1610
CAPROLACTAM	0.1230	0.1040	0.1050	0.1020	0.0890	0.0840		
1,2,4,5-TETRACHLOROBENZENE	0.32	0.2710	0.2490	0.2350	0.2040	0.1860		
ATRAZINE	0.4060	0.3490	0.3330	0.3540	0.3380	0.3470	0.3320	0.3390
BENZIDINE	0.8820	0.7930	0.8840	0.9630	0.9860	0.9950	0.9670	0.9760
3,3-DICHLOROBENZIDINE	0.4850	0.4280	0.4260	0.4620	0.4510	0.4550	0.4440	0.4470
File ID:	0512_13	0512_14	0512_15	0512_16	0512_17	0512_18	0512_19	0512_20

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1
Instrument ID: BNAMS24

Analyte Analysis date/time	RRF. Avg	%RSD	COD
NAPHTHALENE	1.00536	7.01	
2-METHYLNAPHTHALENE	0.672963	9.31	
1-METHYLNAPHTHALENE	0.623591	6.13	
2-CHLORONAPHTHALENE	1.211448	11.1	
ACENAPHTHYLENE	2.015494	6.73	
ACENAPHTHENE	1.261804	9.02	
FLUORENE	1.397609	8.83	
PHENANTHRENE	1.059977	9.3	
ANTHRACENE	1.080232	7.04	
FLUORANTHENE	1.101087	6.54	
PYRENE	1.397174	5.73	
BENZO(A)ANTHRACENE	1.205326	16.38	0.999
CHRYSENE	1.140866	6.88	
BENZO(B)FLUORANTHENE	1.166487	4.25	
BENZO(K)FLUORANTHENE	1.178886	7.04	
BENZO(A)PYRENE	1.126243	7.33	
INDENO(1,2,3-CD)PYRENE	0.936605	8.77	
DIBENZ(A,H)ANTHRACENE	0.933849	10.98	
DIMETHYL PHTHALATE	1.304452	5.93	
DIETHYL PHTHALATE	1.344796	6.26	
HEXACHLOROBENZENE	0.200102	5.07	
PENTACHLOROPHENOL	0.101472	14.32	0.998
DI-N-BUTYL PHTHALATE	1.237941	5.83	
BENZYLBUTYL PHTHALATE	0.648747	6.97	
BIS(2-ETHYLHEXYL)PHTHALATE	0.888557	8.22	
PYRIDINE	1.467163	5.26	
N-NITROSODIMETHYLAMINE	0.76667	6.91	
ANILINE	0.825916	4.3	
BIS(2-CHLOROETHYL)ETHER	1.190422	6.32	
PHENOL	1.657392	5.49	
2-CHLOROPHENOL	1.289834	4.97	
N-DECANE	0.835123	9.58	
BENZYL ALCOHOL	1.137446	5.39	
BIS(2-CHLOROISOPROPYL)ETHER	0.44497	6.72	
2-METHYLPHENOL	1.221257	6.99	
HEXACHLOROETHANE	0.562919	6.97	
N-NITROSODI-N-PROPYLAMINE	0.978943	7.35	
3&4-METHYL PHENOL	1.353402	6.19	
NITROBENZENE	0.365391	5.01	
ISOPHORONE	0.690909	5.29	
2-NITROPHENOL	0.168138	4	
2,4-DIMETHYLPHENOL	0.341771	5.79	
BIS(2-CHLORETHOXY)METHANE	0.414653	5.46	
2,4-DICHLOROPHENOL	0.267638	4.04	
4-CHLOROANILINE	0.137298	5.37	
HEXACHLORO-1,3-BUTADIENE	0.148935	5.68	
4-CHLORO-3-METHYLPHENOL	0.286036	3.04	
HEXACHLOROCYCLOPENTADIENE	0.373883	3.57	
2,4,6-TRICHLOROPHENOL	0.35696	4.76	
2,4,5-TRICHLOROPHENOL	0.362963	3	
BIPHENYL	1.611739	9.1	

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GC/MS INITIAL CALIBRATION DATA

SDG: L1099840 **Analytical Method:** 625.1
Instrument ID: BNAMS24

Analyte Analysis date/time	RRF. Avg	%RSD	COD
2-NITROANILINE	0.422366	3.59	
2,6-DINITROTOLUENE	0.303251	2.37	
3-NITROANILINE	0.365783	1.55	
DIBENZOFURAN	1.733723	7.4	
2,4-DINITROTOLUENE	0.391092	3.94	
4-NITROPHENOL	0.291401	4.3	
4-NITROANILINE	0.391314	1.58	
AZOBENZENE	1.466758	6.88	
N-NITROSODIPHENYLAMINE	0.654008	6.88	
N-OCTADECANE	0.153555	5.2	
CARBAZOLE	1.034615	6.63	
2-FLUOROPHENOL	1.178331	4.04	
PHENOL-D5	1.643406	6.05	
NITROBENZENE-D5	0.358852	4.03	
2-FLUOROBIPHENYL	1.416488	8.54	
2,4,6-TRIBROMOPHENOL	0.092506	4.26	
P-TERPHENYL-D14	0.860142	5.18	
2,4-DINITROPHENOL	0.145192	19.87	0.996
4,6-DINITRO-2-METHYLPHENOL	0.096195	15.8	0.998
BENZALDEHYDE	0.982451	7.4	
ACETOPHENONE	1.788683	8.29	
BENZOIC ACID	0.189541	10.52	
CAPROLACTAM	0.101012	13.86	
1,2,4,5-TETRACHLOROBENZENE	0.244177	19.68	0.991
ATRAZINE	0.349707	6.91	
BENZIDINE	0.930788	7.61	
3,3-DICHLOROBENZIDINE	0.449516	4.21	

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/22/19 18:20
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	05/23/19 00:47
Lab File ID:	0522_23-2	**Analysis date/time:**	05/23/19 01:07
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
HEXACHLOROPHENE	53.043160	0.04790110		99.90		20	17.21	86	70 - 130
N-NITROSODI-N-BUTYLAMINE	0.241512	0.22707190		5.98		10	9.402	94	70 - 130
N-NITROSODIETHYLAMINE	0.686102	0.68904130		0.4280		10	10.04	100	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/22/19 18:20
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	05/23/19 00:47
Lab File ID:	0522_23A-2	**Analysis date/time:**	05/23/19 01:07
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
PENTACHLOROBENZENE	0.489917	0.46060060		5.98		10	9.402	94	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/22/19 18:20
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	05/23/19 00:47
Lab File ID:	0523_05-2	**Analysis date/time:**	05/23/19 18:18
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROPHENE	53.043160	0.06020719		99.90		20	20.68	103	70 - 130
N-NITROSODI-N-BUTYLAMINE	0.241512	0.24048240		0.4260		10	9.957	99.60	70 - 130
N-NITROSODIETHYLAMINE	0.686102	0.713092		3.93		10	10.39	104	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/22/19 18:20
Instrument ID:	BNAMS19	**Calibration (end) date/time:**	05/23/19 00:47
Lab File ID:	0523_06-2	**Analysis date/time:**	05/23/19 18:38
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
PENTACHLOROBENZENE	0.489917	0.498686		1.79		10	10.18	102	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/16/19 09:48
Lab File ID:	0420_23-2	**Analysis date/time:**	04/20/19 20:02
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.630056	0.67139590		6.56		10	10.66	107	70 - 130
2,4,5-TRICHLOROPHENOL	0.386272	0.41512770		7.47		10	10.75	108	70 - 130
2,4,6-TRICHLOROPHENOL	0.376070	0.39264470		4.41		10	10.44	104	70 - 130
2,4-DICHLOROPHENOL	0.274079	0.28948650		5.62		10	10.56	106	70 - 130
2,4-DIMETHYLPHENOL	0.330795	0.36817250		11.30		10	11.13	111	70 - 130
2,4-DINITROPHENOL	0.180455	0.17287170		4.20		10	9.243	92.40	70 - 130
2,4-DINITROTOLUENE	0.420131	0.47070350		12		10	11.20	112	70 - 130
2,6-DINITROTOLUENE	0.325116	0.35781910		10.10		10	11.01	110	70 - 130
2-CHLORONAPHTHALENE	1.165021	1.239891		6.43		10	10.64	106	70 - 130
2-CHLOROPHENOL	1.335373	1.418437		6.22		10	10.62	106	70 - 130
2-METHYLNAPHTHALENE	0.654623	0.67791010		3.56		10	10.36	104	70 - 130
2-METHYLPHENOL	1.186765	1.251092		5.42		10	10.54	105	70 - 130
2-NITROANILINE	0.421474	0.46458540		10.20		10	11.02	110	70 - 130
2-NITROPHENOL	0.179699	0.19158660		6.62		10	10.66	107	70 - 130
3&4-METHYL PHENOL	1.308018	1.382205		5.67		10	10.57	106	70 - 130
3-NITROANILINE	0.370988	0.39955150		7.70		10	10.77	108	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.130058	0.131760		1.31		10	9.784	97.80	70 - 130
4-CHLORO-3-METHYLPHENOL	0.280533	0.294199		4.87		10	10.49	105	70 - 130
4-CHLOROANILINE	0.119891	0.12121110		1.10		10	10.11	101	70 - 130
4-NITROANILINE	0.402822	0.42608820		5.78		10	10.58	106	70 - 130
4-NITROPHENOL	0.3089	0.33881390		9.68		10	10.97	110	70 - 130
ACENAPHTHENE	1.187560	1.293457		8.92		10	10.89	109	70 - 130
ACENAPHTHYLENE	1.788928	1.976102		10.50		10	11.05	111	70 - 130
ANILINE	0.722341	0.74077740		2.55		10	10.26	103	70 - 130
ANTHRACENE	1.071932	1.173827		9.51		10	10.95	110	70 - 130
AZOBENZENE	1.395352	1.430468		2.52		10	10.25	103	70 - 130
BENZO(A)ANTHRACENE	1.114805	1.167016		4.68		10	10.47	105	70 - 130
BENZO(A)PYRENE	1.075837	1.166101		8.39		10	9.827	98.30	70 - 130
BENZO(B)FLUORANTHENE	1.158223	1.285146		11		10	11.10	111	70 - 130
BENZO(K)FLUORANTHENE	1.205394	1.322550		9.72		10	10.97	110	70 - 130
BENZYL ALCOHOL	1.017976	1.109866		9.03		10	10.90	109	70 - 130
BENZYLBUTYL PHTHALATE	0.639877	0.684179		6.92		10	10.69	107	70 - 130
BIPHENYL	1.524235	1.532502		0.5420		10	10.05	101	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.410809	0.44161180		7.50		10	10.75	108	70 - 130
BIS(2-CHLOROETHYL)ETHER	0.926460	0.93400730		0.8150		10	10.08	101	70 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.477251	0.50875390		6.60		10	10.66	107	70 - 130
BIS(2-ETHYLHEXYL)PHTHALATE	0.873457	0.96008610		9.92		10	10.99	110	70 - 130
CARBAZOLE	0.998675	1.057906		5.93		10	10.59	106	70 - 130
CHRYSENE	1.109350	1.170647		5.53		10	10.55	106	70 - 130
DI-N-BUTYL PHTHALATE	1.222419	1.349316		10.40		10	11.04	110	70 - 130
DIBENZ(A,H)ANTHRACENE	0.828661	0.93600830		13		10	10.16	102	70 - 130
DIBENZOFURAN	1.601315	1.682179		5.05		10	10.50	105	70 - 130
DIETHYL PHTHALATE	1.372993	1.479458		7.75		10	10.78	108	70 - 130
DIMETHYL PHTHALATE	1.347595	1.439604		6.83		10	10.68	107	70 - 130
FLUORANTHENE	1.042766	1.120752		7.48		10	10.75	108	70 - 130
FLUORENE	1.317280	1.442101		9.48		10	10.95	110	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.155639	0.181199		16.40		10	11.64	116	70 - 130
HEXACHLOROBENZENE	0.229865	0.24558420		6.84		10	10.68	107	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/16/19 09:48
Lab File ID:	0420_23-2	**Analysis date/time:**	04/20/19 20:02
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROCYCLOPENTADIENE	0.379841	0.37812780		0.4510		10	9.955	99.60	70 - 130
HEXACHLOROETHANE	0.574203	0.59262690		3.21		10	10.32	103	70 - 130
INDENO(1,2,3-CD)PYRENE	0.777656	0.83540790		7.43		10	9.302	93	70 - 130
ISOPHORONE	0.658186	0.68651170		4.30		10	10.43	104	70 - 130
N-DECANE	0.653479	0.58644390		10.30		10	8.974	89.70	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.919471	0.94005910		2.24		10	10.22	102	70 - 130
N-NITROSODIMETHYLAMINE	0.659847	0.60606770		8.15		10	9.185	91.90	70 - 130
N-NITROSODIPHENYLAMINE	0.659854	0.70072310		6.19		10	10.62	106	70 - 130
N-OCTADECANE	0.123240	0.11835020		3.97		10	9.603	96	70 - 130
NAPHTHALENE	1.002202	1.061525		5.92		10	10.59	106	70 - 130
NITROBENZENE	0.342920	0.36083940		5.23		10	10.52	105	70 - 130
PENTACHLOROPHENOL	0.132288	0.17241930		30.30		10	11.33	113	70 - 130
PHENANTHRENE	1.074487	1.122887		4.50		10	10.45	105	70 - 130
PHENOL	1.577069	1.626431		3.13		10	10.31	103	70 - 130
PYRENE	1.292223	1.374452		6.36		10	10.64	106	70 - 130
PYRIDINE	1.400208	1.423577		1.67		10	10.17	102	70 - 130
2,4,6-TRIBROMOPHENOL	0.117229	0.11671850		0.4350		10	9.956	99.60	70 - 130
2-FLUOROBIPHENYL	1.343223	1.341960		0.0940		10	9.991	99.90	70 - 130
2-FLUOROPHENOL	1.191047	1.148007		3.61		10	9.639	96.40	70 - 130
NITROBENZENE-D5	0.382392	0.36554360		4.41		10	9.559	95.60	70 - 130
P-TERPHENYL-D14	0.948803	0.95438570		0.5880		10	10.06	101	70 - 130
PHENOL-D5	1.561908	1.516634		2.90		10	9.710	97.10	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/16/19 09:48
Lab File ID:	0420_24-2	**Analysis date/time:**	04/20/19 20:23
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	**Avg. RRF**	**RRF**	**Min. RRF**	**Diff.**	**Max Diff.**	**True Value**	**Result**	**Result**	**Limits**
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
1,2,4,5-TETRACHLOROBENZENE	0.252273	0.26445890		4.83		10	10.48	105	70 - 130
3,3-DICHLOROBENZIDINE	0.436677	0.40558510		7.12		10	9.288	92.90	70 - 130
ACETOPHENONE	1.670776	1.862436		11.50		10	11.15	112	70 - 130
ATRAZINE	0.378652	0.40798930		7.75		10	10.77	108	70 - 130
BENZIDINE	0.812023	0.58155280		28.40		10	7.162	71.60	70 - 130
BENZOIC ACID	0.187791	0.07946376		57.70		10	4.232	42.30	70 - 130
CAPROLACTAM	0.098556	0.11723360		19		10	11.90	119	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/16/19 09:48
Lab File ID:	0522A_03	**Analysis date/time:**	05/22/19 19:31
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.630056	0.69993960		11.10		10	11.11	111	70 - 130
2,4,5-TRICHLOROPHENOL	0.386272	0.42932920		11.10		10	11.11	111	70 - 130
2,4,6-TRICHLOROPHENOL	0.376070	0.41170640		9.48		10	10.95	110	69 - 130
2,4-DICHLOROPHENOL	0.274079	0.31378310		14.50		10	11.45	115	64 - 130
2,4-DIMETHYLPHENOL	0.330795	0.26730240		19.20		10	8.081	80.80	58 - 130
2,4-DINITROPHENOL	0.180455	0.18670590		3.46		10	9.883	98.80	39 - 173
2,4-DINITROTOLUENE	0.420131	0.43895660		4.48		10	10.45	105	53 - 130
2,6-DINITROTOLUENE	0.325116	0.327592		0.7620		10	10.08	101	68 - 137
2-CHLORONAPHTHALENE	1.165021	1.266287		8.69		10	10.87	109	70 - 130
2-CHLOROPHENOL	1.335373	1.426528		6.83		10	10.68	107	55 - 130
2-METHYLNAPHTHALENE	0.654623	0.73688580		12.60		10	11.26	113	70 - 130
2-METHYLPHENOL	1.186765	1.250408		5.36		10	10.54	105	70 - 130
2-NITROANILINE	0.421474	0.44891520		6.51		10	10.65	106	70 - 130
2-NITROPHENOL	0.179699	0.20697850		15.20		10	11.52	115	61 - 163
3&4-METHYL PHENOL	1.308018	1.354127		3.53		10	10.35	104	70 - 130
3-NITROANILINE	0.370988	0.37483940		1.04		10	10.10	101	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.130058	0.13339290		2.56		10	9.893	98.90	56 - 130
4-CHLORO-3-METHYLPHENOL	0.280533	0.29621520		5.59		10	10.56	106	68 - 130
4-CHLOROANILINE	0.119891	0.130227		8.62		10	10.86	109	70 - 130
4-NITROANILINE	0.402822	0.40599290		0.7870		10	10.08	101	70 - 130
4-NITROPHENOL	0.3089	0.28853390		6.59		10	9.341	93.40	35 - 130
ACENAPHTHENE	1.187560	1.275203		7.38		10	10.74	107	70 - 130
ACENAPHTHYLENE	1.788928	1.934660		8.15		10	10.81	108	60 - 130
ANILINE	0.722341	1.450107		101		10	20.08	201	70 - 130
ANTHRACENE	1.071932	1.106115		3.19		10	10.32	103	58 - 130
AZOBENZENE	1.395352	1.570470		12.60		10	11.26	113	70 - 130
BENZO(A)ANTHRACENE	1.114805	1.116194		0.1250		10	10.01	100	42 - 133
BENZO(A)PYRENE	1.075837	1.248599		16.10		10	10.52	105	32 - 148
BENZO(B)FLUORANTHENE	1.158223	1.282987		10.80		10	11.08	111	42 - 140
BENZO(K)FLUORANTHENE	1.205394	1.326160		10		10	11.00	110	25 - 146
BENZYL ALCOHOL	1.017976	0.99542120		2.22		10	9.778	97.80	70 - 130
BENZYLBUTYL PHTHALATE	0.639877	0.63789710		0.3090		10	9.969	99.70	43 - 140
BIPHENYL	1.524235	1.681074		10.30		10	11.03	110	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.410809	0.42544350		3.56		10	10.36	104	52 - 164
BIS(2-CHLOROETHYL)ETHER	0.926460	0.90920660		1.86		10	9.814	98.10	52 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.477251	0.511594		7.20		10	10.72	107	63 - 139
BIS(2-ETHYLHEXYL)PHTHALATE	0.873457	0.89989420		3.03		10	10.30	103	43 - 137
CARBAZOLE	0.998675	1.085587		8.70		10	10.87	109	70 - 130
CHRYSENE	1.109350	1.189565		7.23		10	10.72	107	44 - 140
DI-N-BUTYL PHTHALATE	1.222419	1.317568		7.78		10	10.78	108	52 - 130
DIBENZ(A,H)ANTHRACENE	0.828661	1.041554		25.70		10	11.31	113	13 - 200
DIBENZOFURAN	1.601315	1.727925		7.91		10	10.79	108	70 - 130
DIETHYL PHTHALATE	1.372993	1.382498		0.6920		10	10.07	101	47 - 130
DIMETHYL PHTHALATE	1.347595	1.413047		4.86		10	10.49	105	50 - 130
FLUORANTHENE	1.042766	1.150655		10.30		10	11.03	110	47 - 130
FLUORENE	1.317280	1.426896		8.32		10	10.83	108	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.155639	0.186812		20		10	12.00	120	68 - 130
HEXACHLOROBENZENE	0.229865	0.229294		0.2480		10	9.975	99.80	38 - 142

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GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/16/19 09:48
Lab File ID:	0522A_03	**Analysis date/time:**	05/22/19 19:31
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROCYCLOPENTADIENE	0.379841	0.31088410		18.20		10	8.185	81.90	70 - 130
HEXACHLOROETHANE	0.574203	0.64958380		13.10		10	11.31	113	55 - 130
INDENO(1,2,3-CD)PYRENE	0.777656	0.98402650		26.50		10	10.95	110	13 - 151
ISOPHORONE	0.658186	0.72469290		10.10		10	11.01	110	52 - 180
N-DECANE	0.653479	0.81049150		24		10	12.40	124	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.919471	0.95897610		4.30		10	10.43	104	59 - 170
N-NITROSODIMETHYLAMINE	0.659847	0.84278650		27.70		10	12.77	128	70 - 130
N-NITROSODIPHENYLAMINE	0.659854	0.68065580		3.15		10	10.32	103	70 - 130
N-OCTADECANE	0.123240	0.12886840		4.57		10	10.46	105	70 - 130
NAPHTHALENE	1.002202	1.064225		6.19		10	10.62	106	70 - 130
NITROBENZENE	0.342920	0.394268		15		10	11.50	115	54 - 158
PENTACHLOROPHENOL	0.132288	0.11996750		9.31		10	7.938	79.40	42 - 152
PHENANTHRENE	1.074487	1.124025		4.61		10	10.46	105	67 - 130
PHENOL	1.577069	1.919533		21.70		10	12.17	122	48 - 130
PYRENE	1.292223	1.369344		5.97		10	10.60	106	70 - 130
PYRIDINE	1.400208	1.403269		0.2190		10	10.02	100	70 - 130
2,4,6-TRIBROMOPHENOL	0.117229	0.12042730		2.73		10	10.27	103	70 - 130
2-FLUOROBIPHENYL	1.343223	1.526658		13.70		10	11.37	114	70 - 130
2-FLUOROPHENOL	1.191047	1.258029		5.62		10	10.56	106	70 - 130
NITROBENZENE-D5	0.382392	0.45401190		18.70		10	11.87	119	46 - 219
P-TERPHENYL-D14	0.948803	0.96579090		1.79		10	10.18	102	70 - 130
PHENOL-D5	1.561908	1.642503		5.16		10	10.52	105	48 - 208

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/20/19 13:42
Instrument ID:	BNAMS20	**Calibration (end) date/time:**	05/16/19 09:48
Lab File ID:	0522A_04	**Analysis date/time:**	05/22/19 19:52
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1,2,4,5-TETRACHLOROBENZENE	0.252273	0.27839520		10.40		10	11.04	110	70 - 130
3,3-DICHLOROBENZIDINE	0.436677	0.457312		4.73		10	10.47	105	18 - 213
ACETOPHENONE	1.670776	1.787860		7.01		10	10.70	107	70 - 130
ATRAZINE	0.378652	0.38797980		2.46		10	10.25	103	70 - 130
BENZALDEHYDE	0.713559	0.75625630		5.98		10	10.60	106	70 - 130
BENZIDINE	0.812023	0.81442030		0.2950		10	10.03	100	70 - 130
BENZOIC ACID	0.187791	0.24693120		31.50		10	13.15	132	70 - 130
CAPROLACTAM	0.098556	0.10129820		2.78		10	10.28	103	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	05/17/19 13:02
Lab File ID:	0416_24-2	**Analysis date/time:**	04/16/19 16:53
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.619905	0.66117930		6.66		10	10.67	107	70 - 130
2,4,5-TRICHLOROPHENOL	0.383431	0.37780020		1.47		10	9.853	98.50	70 - 130
2,4,6-TRICHLOROPHENOL	0.364775	0.35379040		3.01		10	9.699	97	70 - 130
2,4-DICHLOROPHENOL	0.267648	0.27470370		2.64		10	10.26	103	70 - 130
2,4-DIMETHYLPHENOL	0.370388	0.35408060		4.40		10	9.560	95.60	70 - 130
2,4-DINITROPHENOL	0.188528	0.15973730		15.30		10	8.033	80.30	70 - 130
2,4-DINITROTOLUENE	0.422598	0.42326620		0.1580		10	10.02	100	70 - 130
2,6-DINITROTOLUENE	0.326228	0.31703950		2.82		10	9.718	97.20	70 - 130
2-CHLORONAPHTHALENE	1.183795	1.244481		5.13		10	10.51	105	70 - 130
2-CHLOROPHENOL	1.480093	1.433785		3.13		10	9.687	96.90	70 - 130
2-METHYLNAPHTHALENE	0.649426	0.65269520		0.5030		10	10.05	101	70 - 130
2-METHYLPHENOL	1.323366	1.211076		8.49		10	9.151	91.50	70 - 130
2-NITROANILINE	0.489833	0.46804890		4.45		10	9.555	95.60	70 - 130
2-NITROPHENOL	0.199126	0.186709		6.24		10	9.376	93.80	70 - 130
3&4-METHYL PHENOL	1.541321	1.402372		9.01		10	9.099	91	70 - 130
3-NITROANILINE	0.402560	0.39458660		1.98		10	9.802	98	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.112128	0.10533460		6.06		10	8.365	83.70	70 - 130
4-CHLORO-3-METHYLPHENOL	0.291071	0.28137090		3.33		10	9.667	96.70	70 - 130
4-CHLOROANILINE	0.113683	0.09276997		18.40		10	8.160	81.60	70 - 130
4-NITROANILINE	0.529689	0.46803410		11.60		10	8.836	88.40	70 - 130
4-NITROPHENOL	0.344819	0.32350330		6.18		10	9.382	93.80	70 - 130
ACENAPHTHENE	1.300169	1.332204		2.46		10	10.25	103	70 - 130
ACENAPHTHYLENE	1.831859	2.027158		10.70		10	11.07	111	70 - 130
ANILINE	0.655076	0.55354560		15.50		10	8.450	84.50	70 - 130
ANTHRACENE	1.061432	1.105591		4.16		10	10.42	104	70 - 130
AZOBENZENE	1.486889	1.296303		12.80		10	8.718	87.20	70 - 130
BENZO(A)ANTHRACENE	1.118993	1.130044		0.9880		10	10.10	101	70 - 130
BENZO(A)PYRENE	1.074977	1.099013		2.24		10	8.882	88.80	70 - 130
BENZO(B)FLUORANTHENE	1.138536	1.184915		4.07		10	10.41	104	70 - 130
BENZO(K)FLUORANTHENE	1.164881	1.179439		1.25		10	10.12	101	70 - 130
BENZYL ALCOHOL	1.047936	0.94416710		9.90		10	9.010	90.10	70 - 130
BENZYLBUTYL PHTHALATE	0.615006	0.61692460		0.3120		10	10.03	100	70 - 130
BIPHENYL	1.562679	1.513318		3.16		10	9.684	96.80	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.421141	0.39364050		6.53		10	9.347	93.50	70 - 130
BIS(2-CHLOROETHYL)ETHER	0.902950	0.74573980		17.40		10	8.259	82.60	70 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.509472	0.47646630		6.48		10	9.352	93.50	70 - 130
BIS(2-ETHYLHEXYL)PHTHALATE	0.864903	0.87987120		1.73		10	9.026	90.30	70 - 130
CARBAZOLE	1.047274	1.015993		2.99		10	9.701	97	70 - 130
CHRYSENE	1.110404	1.144116		3.04		10	10.30	103	70 - 130
DI-N-BUTYL PHTHALATE	1.215082	1.201315		1.13		10	9.887	98.90	70 - 130
DIBENZ(A,H)ANTHRACENE	1.042455	1.084750		4.06		10	8.921	89.20	70 - 130
DIBENZOFURAN	1.607065	1.668791		3.84		10	10.38	104	70 - 130
DIETHYL PHTHALATE	1.340898	1.371550		2.29		10	10.23	102	70 - 130
DIMETHYL PHTHALATE	1.297185	1.312092		1.15		10	10.11	101	70 - 130
FLUORANTHENE	1.051793	1.063582		1.12		10	10.11	101	70 - 130
FLUORENE	1.388442	1.454151		4.73		10	10.47	105	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.140862	0.16637340		18.10		10	11.81	118	70 - 130
HEXACHLOROBENZENE	0.205161	0.19854770		3.22		10	9.678	96.80	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	05/17/19 13:02
Lab File ID:	0416_24-2	**Analysis date/time:**	04/16/19 16:53
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROCYCLOPENTADIENE	0.412570	0.35243370		14.60		10	8.542	85.40	70 - 130
HEXACHLOROETHANE	0.667330	0.60331680		9.59		10	9.041	90.40	70 - 130
INDENO(1,2,3-CD)PYRENE	0.960718	1.039058		8.15		10	10.82	108	70 - 130
ISOPHORONE	0.639798	0.57759340		9.72		10	9.028	90.30	70 - 130
N-DECANE	0.697191	0.49835550		28.50		10	7.148	71.50	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.924281	0.742641		19.70		10	8.035	80.30	70 - 130
N-NITROSODIMETHYLAMINE	0.645631	0.46359390		28.20		10	7.180	71.80	70 - 130
N-NITROSODIPHENYLAMINE	0.651138	0.63368010		2.68		10	9.732	97.30	70 - 130
N-OCTADECANE	0.116779	0.08189979		29.90		10	7.013	70.10	70 - 130
NAPHTHALENE	1.036904	1.070848		3.27		10	10.33	103	70 - 130
NITROBENZENE	0.358925	0.31048950		13.50		10	8.651	86.50	70 - 130
PENTACHLOROPHENOL	0.111538	0.13951860		25.10		10	10.78	108	70 - 130
PHENANTHRENE	1.071696	1.087645		1.49		10	10.15	102	70 - 130
PHENOL	1.770643	1.517992		14.30		10	8.573	85.70	70 - 130
PYRENE	1.176635	1.226578		4.24		10	10.42	104	70 - 130
PYRIDINE	1.375299	1.179363		14.20		10	8.575	85.70	70 - 130
2,4,6-TRIBROMOPHENOL	0.110431	0.09522175		13.80		10	8.136	81.40	70 - 130
2-FLUOROBIPHENYL	1.340042	1.282699		4.28		10	9.572	95.70	70 - 130
2-FLUOROPHENOL	1.275610	1.094579		14.20		10	8.581	85.80	70 - 130
NITROBENZENE-D5	0.392969	0.31801710		19.10		10	8.093	80.90	70 - 130
P-TERPHENYL-D14	0.828816	0.76129510		8.15		10	9.185	91.90	70 - 130
PHENOL-D5	1.734388	1.415215		18.40		10	8.160	81.60	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	05/17/19 13:02
Lab File ID:	0416_25-2	**Analysis date/time:**	04/16/19 17:14
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	*%*	*mg/l*	*mg/l*	*% Rec.*	*%*
1,2,4,5-TETRACHLOROBENZENE	0.201136	0.20193030		0.3950		10	10.04	100	70 - 130
3,3-DICHLOROBENZIDINE	0.085927	0.07366348		14.30		10	8.413	84.10	70 - 130
ACETOPHENONE	2.055843	2.229326		8.44		10	10.84	108	70 - 130
ATRAZINE	0.362229	0.36403010		0.4970		10	10.05	101	70 - 130
BENZIDINE	0.846735	0.82823270		2.19		10	9.498	95	70 - 130
BENZOIC ACID	0.175817	0.20115540		14.40		10	11.44	114	70 - 130
CAPROLACTAM	0.094785	0.11515870		21.50		10	12.15	121	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	05/17/19 13:02
Lab File ID:	0521_03-1	**Analysis date/time:**	05/21/19 12:22
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.619905	0.68750890		10.90		10	11.09	111	70 - 130
2,4,5-TRICHLOROPHENOL	0.383431	0.43763950		14.10		10	11.41	114	70 - 130
2,4,6-TRICHLOROPHENOL	0.364775	0.41402730		13.50		10	11.35	114	69 - 130
2,4-DICHLOROPHENOL	0.267648	0.314524		17.50		10	11.75	117	64 - 130
2,4-DIMETHYLPHENOL	0.370388	0.34359430		7.23		10	9.277	92.80	58 - 130
2,4-DINITROPHENOL	0.188528	0.18302010		2.92		10	8.977	89.80	39 - 173
2,4-DINITROTOLUENE	0.422598	0.47091820		11.40		10	11.14	111	53 - 130
2,6-DINITROTOLUENE	0.326228	0.34432740		5.55		10	10.55	106	68 - 137
2-CHLORONAPHTHALENE	1.183795	1.243981		5.08		10	10.51	105	70 - 130
2-CHLOROPHENOL	1.480093	1.418376		4.17		10	9.583	95.80	55 - 130
2-METHYLNAPHTHALENE	0.649426	0.73301360		12.90		10	11.29	113	70 - 130
2-METHYLPHENOL	1.323366	1.256143		5.08		10	9.492	94.90	70 - 130
2-NITROANILINE	0.489833	0.45683620		6.74		10	9.326	93.30	70 - 130
2-NITROPHENOL	0.199126	0.20536170		3.13		10	10.31	103	61 - 163
3&4-METHYL PHENOL	1.541321	1.452519		5.76		10	9.424	94.20	70 - 130
3-NITROANILINE	0.402560	0.37388180		7.12		10	9.288	92.90	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.112128	0.14508440		29.40		10	11.21	112	56 - 130
4-CHLORO-3-METHYLPHENOL	0.291071	0.33640310		15.60		10	11.56	116	68 - 130
4-CHLOROANILINE	0.113683	0.14459480		27.20		10	12.72	127	70 - 130
4-NITROANILINE	0.529689	0.38665170		27		10	7.300	73	70 - 130
ACENAPHTHENE	1.300169	1.301226		0.0813		10	10.01	100	70 - 130
ACENAPHTHYLENE	1.831859	2.009130		9.68		10	10.97	110	60 - 130
ANILINE	0.655076	1.050323		60.30		10	16.03	160	70 - 130
ANTHRACENE	1.061432	1.173013		10.50		10	11.05	111	58 - 130
AZOBENZENE	1.486889	1.847377		24.20		10	12.42	124	70 - 130
BENZO(A)ANTHRACENE	1.118993	1.221870		9.19		10	10.92	109	42 - 133
BENZO(A)PYRENE	1.074977	1.221103		13.60		10	9.864	98.60	32 - 148
BENZO(B)FLUORANTHENE	1.138536	1.232121		8.22		10	10.82	108	42 - 140
BENZO(K)FLUORANTHENE	1.164881	1.251966		7.48		10	10.75	108	25 - 146
BENZYL ALCOHOL	1.047936	1.085757		3.61		10	10.36	104	70 - 130
BENZYLBUTYL PHTHALATE	0.615006	0.61270280		0.3750		10	9.963	99.60	43 - 140
BIPHENYL	1.562679	1.6079		2.89		10	10.29	103	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.421141	0.442634		5.10		10	10.51	105	52 - 164
BIS(2-CHLOROETHYL)ETHER	0.902950	1.312997		45.40		10	14.54	145	52 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.509472	0.47092060		7.57		10	9.243	92.40	63 - 139
BIS(2-ETHYLHEXYL)PHTHALATE	0.864903	0.85398350		1.26		10	8.761	87.60	43 - 137
CARBAZOLE	1.047274	1.085372		3.64		10	10.36	104	70 - 130
CHRYSENE	1.110404	1.155873		4.09		10	10.41	104	44 - 140
DI-N-BUTYL PHTHALATE	1.215082	1.339693		10.30		10	11.03	110	52 - 130
DIBENZ(A,H)ANTHRACENE	1.042455	1.171723		12.40		10	9.632	96.30	13 - 200
DIBENZOFURAN	1.607065	1.799516		12		10	11.20	112	70 - 130
DIETHYL PHTHALATE	1.340898	1.507465		12.40		10	11.24	112	47 - 130
DIMETHYL PHTHALATE	1.297185	1.493463		15.10		10	11.51	115	50 - 130
FLUORANTHENE	1.051793	1.255562		19.40		10	11.94	119	47 - 130
FLUORENE	1.388442	1.510064		8.76		10	10.88	109	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.140862	0.20423240		45		10	14.50	145	68 - 130
HEXACHLOROBENZENE	0.205161	0.23471980		14.40		10	11.44	114	38 - 142
HEXACHLOROCYCLOPENTADIENE	0.412570	0.36334590		11.90		10	8.807	88.10	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	05/17/19 13:02
Lab File ID:	0521_03-1	**Analysis date/time:**	05/21/19 12:22
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROETHANE	0.667330	0.64792930		2.91		10	9.709	97.10	55 - 130
INDENO(1,2,3-CD)PYRENE	0.960718	1.148498		19.50		10	11.95	119	13 - 151
ISOPHORONE	0.639798	0.76567980		19.70		10	11.97	120	52 - 180
N-DECANE	0.697191	0.90223120		29.40		10	12.94	129	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.924281	1.102381		19.30		10	11.93	119	59 - 170
N-NITROSODIMETHYLAMINE	0.645631	0.80945490		25.40		10	12.54	125	70 - 130
N-NITROSODIPHENYLAMINE	0.651138	0.67519090		3.69		10	10.37	104	70 - 130
N-OCTADECANE	0.116779	0.14970820		28.20		10	12.82	128	70 - 130
NAPHTHALENE	1.036904	1.098323		5.92		10	10.59	106	70 - 130
NITROBENZENE	0.358925	0.43064360		20		10	12.00	120	54 - 158
PENTACHLOROPHENOL	0.111538	0.09641082		13.60		10	7.630	76.30	42 - 152
PHENANTHRENE	1.071696	1.151664		7.46		10	10.75	108	67 - 130
PHENOL	1.770643	1.760857		0.5530		10	9.945	99.40	48 - 130
PYRENE	1.176635	1.243032		5.64		10	10.56	106	70 - 130
PYRIDINE	1.375299	1.419595		3.22		10	10.32	103	70 - 130
2,4,6-TRIBROMOPHENOL	0.110431	0.11277960		2.13		10	9.464	94.60	70 - 130
2-FLUOROBIPHENYL	1.340042	1.474312		10		10	11.00	110	70 - 130
2-FLUOROPHENOL	1.275610	1.243189		2.54		10	9.746	97.50	70 - 130
NITROBENZENE-D5	0.392969	0.42564010		8.31		10	10.83	108	46 - 219
P-TERPHENYL-D14	0.828816	0.88031820		6.21		10	10.62	106	70 - 130
PHENOL-D5	1.734388	1.695392		2.25		10	9.775	97.80	48 - 208

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	04/16/19 10:31
Instrument ID:	BNAMS23	**Calibration (end) date/time:**	05/17/19 13:02
Lab File ID:	0521_04-1	**Analysis date/time:**	05/21/19 12:43
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1,2,4,5-TETRACHLOROBENZENE	0.201136	0.28571980		42.10		10	14.21	142	70 - 130
3,3-DICHLOROBENZIDINE	0.085927	0.08226417		4.26		10	9.259	92.60	18 - 213
ACETOPHENONE	2.055843	1.923777		6.42		10	9.358	93.60	70 - 130
ATRAZINE	0.362229	0.42307380		16.80		10	11.68	117	70 - 130
BENZALDEHYDE	0.829204	0.83987850		1.29		10	10.13	101	70 - 130
BENZIDINE	0.846735	0.69123060		18.40		10	8.085	80.80	70 - 130
BENZOIC ACID	0.175817	0.26154250		48.80		10	14.88	149	70 - 130
CAPROLACTAM	0.094785	0.10795310		13.90		10	11.39	114	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0512_21-2	**Analysis date/time:**	05/12/19 18:12
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.623591	0.62003450		0.57		10	9.943	99.40	70 - 130
2,4,5-TRICHLOROPHENOL	0.362963	0.33253880		8.38		10	9.162	91.60	70 - 130
2,4,6-TRICHLOROPHENOL	0.356960	0.38266380		7.20		10	10.72	107	70 - 130
2,4-DICHLOROPHENOL	0.267638	0.26380510		1.43		10	9.857	98.60	70 - 130
2,4-DIMETHYLPHENOL	0.341771	0.35837610		4.86		10	10.49	105	70 - 130
2,4-DINITROPHENOL	0.145192	0.13972510		3.77		10	9.279	92.80	70 - 130
2,4-DINITROTOLUENE	0.391092	0.40627590		3.88		10	10.39	104	70 - 130
2,6-DINITROTOLUENE	0.303251	0.31490690		3.84		10	10.38	104	70 - 130
2-CHLORONAPHTHALENE	1.211448	1.154189		4.73		10	9.527	95.30	70 - 130
2-CHLOROPHENOL	1.289834	1.361367		5.55		10	10.55	106	70 - 130
2-METHYLNAPHTHALENE	0.672963	0.64877350		3.59		10	9.641	96.40	70 - 130
2-METHYLPHENOL	1.221257	1.260615		3.22		10	10.32	103	70 - 130
2-NITROANILINE	0.422366	0.43852770		3.83		10	10.38	104	70 - 130
2-NITROPHENOL	0.168138	0.17465820		3.88		10	10.39	104	70 - 130
3&4-METHYL PHENOL	1.353402	1.426061		5.37		10	10.54	105	70 - 130
3-NITROANILINE	0.365783	0.38234760		4.53		10	10.45	105	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.096195	0.10295850		7.03		10	10.30	103	70 - 130
4-CHLORO-3-METHYLPHENOL	0.286036	0.29198130		2.08		10	10.21	102	70 - 130
4-CHLOROANILINE	0.137298	0.13711190		0.1360		10	9.986	99.90	70 - 130
4-NITROANILINE	0.391314	0.39441190		0.7920		10	10.08	101	70 - 130
4-NITROPHENOL	0.291401	0.307539		5.54		10	10.55	106	70 - 130
ACENAPHTHENE	1.261804	1.263745		0.1540		10	10.02	100	70 - 130
ACENAPHTHYLENE	2.015494	1.971413		2.19		10	9.781	97.80	70 - 130
ANILINE	0.825916	0.858234		3.91		10	10.39	104	70 - 130
ANTHRACENE	1.080232	1.053479		2.48		10	9.752	97.50	70 - 130
AZOBENZENE	1.466758	1.502856		2.46		10	10.25	103	70 - 130
BENZO(A)ANTHRACENE	1.205326	1.178955		2.19		10	10.61	106	70 - 130
BENZO(A)PYRENE	1.126243	1.129809		0.3170		10	10.03	100	70 - 130
BENZO(B)FLUORANTHENE	1.166487	1.213809		4.06		10	10.41	104	70 - 130
BENZO(K)FLUORANTHENE	1.178886	1.205115		2.22		10	10.22	102	70 - 130
BENZYL ALCOHOL	1.137446	1.188798		4.51		10	10.45	105	70 - 130
BENZYLBUTYL PHTHALATE	0.648747	0.66463950		2.45		10	10.24	102	70 - 130
BIPHENYL	1.611739	1.578987		2.03		10	9.797	98	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.414653	0.43047630		3.82		10	10.38	104	70 - 130
BIS(2-CHLOROETHYL)ETHER	1.190422	1.176589		1.16		10	9.884	98.80	70 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.444970	0.43691520		1.81		10	9.819	98.20	70 - 130
BIS(2-ETHYLHEXYL)PHTHALATE	0.888557	0.91859560		3.38		10	10.34	103	70 - 130
CARBAZOLE	1.034615	1.077425		4.14		10	10.41	104	70 - 130
CHRYSENE	1.140866	1.160154		1.69		10	10.17	102	70 - 130
DI-N-BUTYL PHTHALATE	1.237941	1.217678		1.64		10	9.836	98.40	70 - 130
DIBENZ(A,H)ANTHRACENE	0.933849	0.97455280		4.36		10	10.44	104	70 - 130
DIBENZOFURAN	1.733723	1.709698		1.39		10	9.861	98.60	70 - 130
DIETHYL PHTHALATE	1.344796	1.313488		2.33		10	9.767	97.70	70 - 130
DIMETHYL PHTHALATE	1.304452	1.242478		4.75		10	9.525	95.30	70 - 130
FLUORANTHENE	1.101087	1.099374		0.1560		10	9.984	99.80	70 - 130
FLUORENE	1.397609	1.385442		0.8710		10	9.913	99.10	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.148935	0.15261560		2.47		10	10.25	103	70 - 130
HEXACHLOROBENZENE	0.200102	0.20421090		2.05		10	10.21	102	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0512_21-2	**Analysis date/time:**	05/12/19 18:12
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROCYCLOPENTADIENE	0.373883	0.32723420		12.50		10	8.752	87.50	70 - 130
HEXACHLOROETHANE	0.562919	0.55097680		2.12		10	9.788	97.90	70 - 130
INDENO(1,2,3-CD)PYRENE	0.936605	0.94061630		0.4280		10	10.04	100	70 - 130
ISOPHORONE	0.690909	0.66411240		3.88		10	9.612	96.10	70 - 130
N-DECANE	0.835123	0.83681570		0.2030		10	10.02	100	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.978943	1.020441		4.24		10	10.42	104	70 - 130
N-NITROSODIMETHYLAMINE	0.766670	0.73082070		4.68		10	9.532	95.30	70 - 130
N-NITROSODIPHENYLAMINE	0.654008	0.65647930		0.3780		10	10.04	100	70 - 130
N-OCTADECANE	0.153555	0.15222170		0.8680		10	9.913	99.10	70 - 130
NAPHTHALENE	1.005360	1.006608		0.1240		10	10.01	100	70 - 130
NITROBENZENE	0.365391	0.347095		5.01		10	9.499	95	70 - 130
PENTACHLOROPHENOL	0.101472	0.12890170		27		10	11.56	116	70 - 130
PHENANTHRENE	1.059977	1.042519		1.65		10	9.835	98.30	70 - 130
PHENOL	1.657392	1.722059		3.90		10	10.39	104	70 - 130
PYRENE	1.397174	1.350254		3.36		10	9.664	96.60	70 - 130
PYRIDINE	1.467163	1.538114		4.84		10	10.48	105	70 - 130
2,4,6-TRIBROMOPHENOL	0.092506	0.09270319		0.2130		10	10.02	100	70 - 130
2-FLUOROBIPHENYL	1.416488	1.375287		2.91		10	9.709	97.10	70 - 130
2-FLUOROPHENOL	1.178331	1.176330		0.17		10	9.983	99.80	70 - 130
NITROBENZENE-D5	0.358852	0.36455540		1.59		10	10.16	102	70 - 130
P-TERPHENYL-D14	0.860142	0.85431830		0.6770		10	9.932	99.30	70 - 130
PHENOL-D5	1.643406	1.683346		2.43		10	10.24	102	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0512_22-2	**Analysis date/time:**	05/12/19 18:33
Analytical Method:	625.1	**Sample ID:**	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1,2,4,5-TETRACHLOROBENZENE	0.244177	0.22923820		6.12		10	11.02	110	70 - 130
3,3-DICHLOROBENZIDINE	0.449516	0.36407160		19		10	8.099	81	70 - 130
ACETOPHENONE	1.788683	1.737715		2.85		10	9.715	97.20	70 - 130
ATRAZINE	0.349707	0.33043910		5.51		10	9.449	94.50	70 - 130
BENZIDINE	0.930788	0.52897540		43.20		10	5.683	56.80	70 - 130
BENZOIC ACID	0.189541	0.20131560		6.21		10	10.62	106	70 - 130
CAPROLACTAM	0.101012	0.09746511		3.51		10	9.649	96.50	70 - 130

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0521_03-2	**Analysis date/time:**	05/21/19 22:24
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1-METHYLNAPHTHALENE	0.623591	0.61501160		1.38		10	9.862	98.60	70 - 130
2,4,5-TRICHLOROPHENOL	0.362963	0.37554480		3.47		10	10.35	104	70 - 130
2,4,6-TRICHLOROPHENOL	0.356960	0.35541020		0.4340		10	9.957	99.60	69 - 130
2,4-DICHLOROPHENOL	0.267638	0.262180		2.04		10	9.796	98	64 - 130
2,4-DIMETHYLPHENOL	0.341771	0.25976810		24		10	7.601	76	58 - 130
2,4-DINITROPHENOL	0.145192	0.19106350		31.60		10	12.23	122	39 - 173
2,4-DINITROTOLUENE	0.391092	0.41097240		5.08		10	10.51	105	53 - 130
2,6-DINITROTOLUENE	0.303251	0.30230160		0.3130		10	9.969	99.70	68 - 137
2-CHLORONAPHTHALENE	1.211448	1.102257		9.01		10	9.099	91	70 - 130
2-CHLOROPHENOL	1.289834	1.216972		5.65		10	9.435	94.40	55 - 130
2-METHYLNAPHTHALENE	0.672963	0.657501		2.30		10	9.770	97.70	70 - 130
2-METHYLPHENOL	1.221257	1.125493		7.84		10	9.216	92.20	70 - 130
2-NITROANILINE	0.422366	0.43195290		2.27		10	10.23	102	70 - 130
2-NITROPHENOL	0.168138	0.17967280		6.86		10	10.69	107	61 - 163
3&4-METHYL PHENOL	1.353402	1.263838		6.62		10	9.338	93.40	70 - 130
3-NITROANILINE	0.365783	0.34846520		4.73		10	9.527	95.30	70 - 130
4,6-DINITRO-2-METHYLPHENOL	0.096195	0.11564190		20.20		10	11.46	115	56 - 130
4-CHLORO-3-METHYLPHENOL	0.286036	0.28473890		0.4530		10	9.955	99.60	68 - 130
4-CHLOROANILINE	0.137298	0.11992810		12.70		10	8.735	87.30	70 - 130
4-NITROANILINE	0.391314	0.38526610		1.55		10	9.845	98.50	70 - 130
4-NITROPHENOL	0.291401	0.29044110		0.3290		10	9.967	99.70	35 - 130
ACENAPHTHENE	1.261804	1.186429		5.97		10	9.403	94	70 - 130
ACENAPHTHYLENE	2.015494	1.896099		5.92		10	9.408	94.10	60 - 130
ANILINE	0.825916	0.66066780		20		10	7.999	80	70 - 130
ANTHRACENE	1.080232	0.96619250		10.60		10	8.944	89.40	58 - 130
AZOBENZENE	1.466758	1.449301		1.19		10	9.881	98.80	70 - 130
BENZO(A)ANTHRACENE	1.205326	1.074522		10.90		10	9.670	96.70	42 - 133
BENZO(A)PYRENE	1.126243	1.182550		5		10	10.50	105	32 - 148
BENZO(B)FLUORANTHENE	1.166487	1.222072		4.77		10	10.48	105	42 - 140
BENZO(K)FLUORANTHENE	1.178886	1.217477		3.27		10	10.33	103	25 - 146
BENZYL ALCOHOL	1.137446	0.97350480		14.40		10	8.559	85.60	70 - 130
BENZYLBUTYL PHTHALATE	0.648747	0.64905580		0.0476		10	10.00	100	43 - 140
BIPHENYL	1.611739	1.521947		5.57		10	9.443	94.40	70 - 130
BIS(2-CHLORETHOXY)METHANE	0.414653	0.40521660		2.28		10	9.772	97.70	52 - 164
BIS(2-CHLOROETHYL)ETHER	1.190422	1.150091		3.39		10	9.661	96.60	52 - 130
BIS(2-CHLOROISOPROPYL)ETHER	0.444970	0.41983770		5.65		10	9.435	94.40	63 - 139
BIS(2-ETHYLHEXYL)PHTHALATE	0.888557	0.89640410		0.8830		10	10.09	101	43 - 137
CARBAZOLE	1.034615	0.96239870		6.98		10	9.302	93	70 - 130
CHRYSENE	1.140866	1.075011		5.77		10	9.423	94.20	44 - 140
DI-N-BUTYL PHTHALATE	1.237941	1.251734		1.11		10	10.11	101	52 - 130
DIBENZ(A,H)ANTHRACENE	0.933849	1.020341		9.26		10	10.93	109	13 - 200
DIBENZOFURAN	1.733723	1.656353		4.46		10	9.554	95.50	70 - 130
DIETHYL PHTHALATE	1.344796	1.372011		2.02		10	10.20	102	47 - 130
DIMETHYL PHTHALATE	1.304452	1.259507		3.45		10	9.655	96.50	50 - 130
FLUORANTHENE	1.101087	1.079408		1.97		10	9.803	98	47 - 130
FLUORENE	1.397609	1.344906		3.77		10	9.623	96.20	70 - 130
HEXACHLORO-1,3-BUTADIENE	0.148935	0.14587080		2.06		10	9.794	97.90	68 - 130
HEXACHLOROBENZENE	0.200102	0.19233630		3.88		10	9.612	96.10	38 - 142

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0521_03-2	**Analysis date/time:**	05/21/19 22:24
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
HEXACHLOROCYCLOPENTADIENE	0.373883	0.27249210		27.10		10	7.288	72.90	70 - 130
HEXACHLOROETHANE	0.562919	0.55565350		1.29		10	9.871	98.70	55 - 130
INDENO(1,2,3-CD)PYRENE	0.936605	0.98985360		5.69		10	10.57	106	13 - 151
ISOPHORONE	0.690909	0.66381910		3.92		10	9.608	96.10	52 - 180
N-DECANE	0.835123	0.84879390		1.64		10	10.16	102	70 - 130
N-NITROSODI-N-PROPYLAMINE	0.978943	0.96222590		1.71		10	9.829	98.30	59 - 170
N-NITROSODIMETHYLAMINE	0.766670	0.75300580		1.78		10	9.822	98.20	70 - 130
N-NITROSODIPHENYLAMINE	0.654008	0.61166820		6.47		10	9.353	93.50	70 - 130
N-OCTADECANE	0.153555	0.15511790		1.02		10	10.10	101	70 - 130
NAPHTHALENE	1.005360	0.92775360		7.72		10	9.228	92.30	70 - 130
NITROBENZENE	0.365391	0.34853240		4.61		10	9.539	95.40	54 - 158
PENTACHLOROPHENOL	0.101472	0.11188460		10.30		10	10.05	101	42 - 152
PHENANTHRENE	1.059977	0.96942340		8.54		10	9.146	91.50	67 - 130
PHENOL	1.657392	1.598657		3.54		10	9.646	96.50	48 - 130
PYRENE	1.397174	1.272764		8.90		10	9.110	91.10	70 - 130
PYRIDINE	1.467163	1.331031		9.28		10	9.072	90.70	70 - 130
2,4,6-TRIBROMOPHENOL	0.092506	0.09742281		5.32		10	10.53	105	70 - 130
2-FLUOROBIPHENYL	1.416488	1.328092		6.24		10	9.376	93.80	70 - 130
2-FLUOROPHENOL	1.178331	1.111518		5.67		10	9.433	94.30	70 - 130
NITROBENZENE-D5	0.358852	0.34940640		2.63		10	9.737	97.40	46 - 219
P-TERPHENYL-D14	0.860142	0.80456630		6.46		10	9.354	93.50	70 - 130
PHENOL-D5	1.643406	1.551592		5.59		10	9.441	94.40	48 - 208

7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L1099840	**Calibration (begin) date/time:**	05/12/19 12:05
Instrument ID:	BNAMS24	**Calibration (end) date/time:**	05/12/19 17:52
Lab File ID:	0521_04-2	**Analysis date/time:**	05/21/19 22:44
Analytical Method:	625.1	**Sample ID:**	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff.	Max Diff.	True Value	Result	Result	Limits
				%	%	mg/l	mg/l	% Rec.	%
1,2,4,5-TETRACHLOROBENZENE	0.244177	0.23357150		4.34		10	11.24	112	70 - 130
3,3-DICHLOROBENZIDINE	0.449516	0.44895060		0.1260		10	9.987	99.90	18 - 213
ACETOPHENONE	1.788683	1.717685		3.97		10	9.603	96	70 - 130
ATRAZINE	0.349707	0.35789090		2.34		10	10.23	102	70 - 130
BENZALDEHYDE	0.982451	0.93379820		4.95		10	9.505	95.10	70 - 130
BENZIDINE	0.930788	0.86003760		7.60		10	9.240	92.40	70 - 130
BENZOIC ACID	0.189541	0.23439950		23.70		10	12.37	124	70 - 130
CAPROLACTAM	0.101012	0.09852545		2.46		10	9.754	97.50	70 - 130

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413503-2

Lab Sample ID:	R3413503-2	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0521_08	**Received Date/Time:**	_____
Instrument ID:	BNAMS24	**Preparation Date/Time:**	05/21/19 08:38
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/22/19 00:04
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acenaphthene	83-32-9	5.12	U		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	5.03	U		0.000309	0.0010	0.00100
Acetophenone	98-86-2	3.51	U		0.00271	0.01	0.0100
Anthracene	120-12-7	6.10	U		0.000291	0.0010	0.00100
Atrazine	1912-24-9	0	U		0.000260	0.01	0.0100
Benzaldehyde	100-52-7	3.06	U		0.00140	0.01	0.0100
Benzidine	92-87-5	0	U		0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	0	U		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	0	U		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	0	U		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	11.12	U		0.000340	0.0010	0.00100
Biphenyl	92-52-4	4.69	U		0.000325	0.01	0.0100
Bis(2-chlorethoxy)methane	111-91-1	0	U		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	0	U		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.43	U		0.000445	0.01	0.0100
Caprolactam	105-60-2	4.26	U		0.00259	0.01	0.0100
Carbazole	86-74-8	6.26	U		0.000260	0.01	0.0100
4-Chloroaniline	106-47-8	0	U		0.000382	0.01	0.0100
2-Chloronaphthalene	91-58-7	0	U		0.000330	0.0010	0.00100
Chrysene	218-01-9	8.62	U		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	0	U		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	0	U		0.000338	0.01	0.0100
3,3-Dichlorobenzidine	91-94-1	0	U		0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	0	U		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	4.95	U		0.000279	0.01	0.0100
Fluoranthene	206-44-0	0	U		0.000310	0.0010	0.00100
Fluorene	86-73-7	0	U		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	0	U		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	0	U		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	0	U		0.00233	0.01	0.0100
Hexachloroethane	67-72-1	3.64	U		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	0	U		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.75	U		0.000272	0.01	0.0100
Naphthalene	91-20-3	4.04	U		0.000372	0.0010	0.00100
2-Nitroaniline	88-74-4	0	U		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	5.06	U		0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	0	U		0.000349	0.01	0.0100
Nitrobenzene	98-95-3	3.60	U		0.000367	0.01	0.0100
Aniline	62-53-3	3.09	U		0.00243	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	2.05	U		0.00126	0.01	0.0100
1,2-Diphenylhydrazine	103-33-3	5.56	U		0.000318	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	0	U		0.00119	0.01	0.0100
Benzyl Alcohol	100-51-6	0	U		0.000393	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413503-2

Lab Sample ID:	R3413503-2	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0521_08	**Received Date/Time:**	_____
Instrument ID:	BNAMS24	**Preparation Date/Time:**	05/21/19 08:38
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/22/19 00:04
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
n-Nitrosodi-n-propylamine	621-64-7	3.49	U		0.000403	0.01	0.0100
Phenanthrene	85-01-8	6.10	U		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.88	U		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.67	U		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.49	U		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.37	U		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	0	U		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.22	U		0.000330	0.0010	0.00100
Pyridine	110-86-1	2.43	U		0.00137	0.01	0.0100
Benzoic Acid	65-85-0	3.85	U		0.00440	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.38	U		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	0	U		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	0	U		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.52	U		0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	0	U		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	0	U		0.000624	0.01	0.0100
2-Methylnaphthalene	91-57-6	0	U		0.000311	0.0010	0.00100
4,6-Dinitro-2-methylphenol	534-52-1	0	U		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	0	U		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	0	U		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	0	U		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	0	U		0.000313	0.01	0.0100
Phenol	108-95-2	3.10	0.000357	J	0.000334	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	0	U		0.00241	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	0	U		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	0	U		0.000297	0.01	0.0100
n-Decane	124-18-5	0	U		0.000596	0.01	0.0100
n-Octadecane	593-45-3	6.03	U		0.000377	0.01	0.0100
1-Methylnaphthalene	90-12-0	0	U		0.000332	0.0010	0.00100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3414602-2

Lab Sample ID:	R3414602-2	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0523_12	**Received Date/Time:**	_____
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/21/19 08:38
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/23/19 20:41
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Pentachlorobenzene	608-93-5	0	U		0.000369	0.01	0.0100
n-Nitrosodiethylamine	55-18-5	0	U		0.000497	0.01	0.0100
n-Nitrosodi-n-butylamine	924-16-3	0	U		0.000331	0.01	0.0100
Hexachlorophene	70-30-4	0	U		0.00144	0.05	0.0500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413503-1

Lab Sample ID:	R3413503-1	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0521_06	**Received Date/Time:**	_____
Instrument ID:	BNAMS24	**Preparation Date/Time:**	05/21/19 08:38
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/21/19 23:24
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acenaphthene	83-32-9	5.14	0.0328		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	5.03	0.0341		0.000309	0.0010	0.00100
Acetophenone	98-86-2	3.51	0.0319		0.00271	0.01	0.0100
Aniline	62-53-3	3.11	0.0159		0.00243	0.01	0.0100
Anthracene	120-12-7	6.16	0.0346		0.000291	0.0010	0.00100
Azobenzene	103-33-3	5.57	0.0369		0.000318	0.01	0.0100
Atrazine	1912-24-9	5.89	0.0398		0.00153	0.01	0.0100
Benzaldehyde	100-52-7	3.06	0.0319		0.00140	0.01	0.0100
Benzidine	92-87-5	7.12	0.0140		0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.61	0.0400		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.39	0.0374		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	10.44	0.0385		0.000355	0.0010	0.00100
Benzo(a)pyrene	50-32-8	11	0.0370		0.000340	0.0010	0.00100
Biphenyl	92-52-4	4.75	0.0329		0.000325	0.01	0.0100
Bis(2-chlorethoxy)methane	111-91-1	3.87	0.0302		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.13	0.0316		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.43	0.0297		0.000445	0.01	0.0100
Caprolactam	105-60-2	4.27	0.0127		0.00259	0.01	0.0100
Carbazole	86-74-8	6.27	0.0372		0.00162	0.01	0.0100
4-Chloroaniline	106-47-8	4.07	0.0261		0.000382	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.77	0.0317		0.000330	0.0010	0.00100
Chrysene	218-01-9	8.66	0.0371		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	13.04	0.0393		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	5.25	0.0345		0.000338	0.01	0.0100
3,3-Dichlorobenzidine	91-94-1	8.59	0.0720		0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.23	0.0391		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	4.97	0.0365		0.000279	0.01	0.0100
Fluoranthene	206-44-0	7.02	0.0380		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.47	0.0361		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.84	0.0367		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	4.12	0.0283		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.56	0.0268		0.00233	0.01	0.0100
Hexachloroethane	67-72-1	3.59	0.0293		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	12.99	0.0380		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.75	0.0308		0.000272	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.53	0.0294		0.000217	0.0010	0.00100
2-Methylnaphthalene	91-57-6	4.47	0.0284		0.000311	0.0010	0.00100
Naphthalene	91-20-3	4.05	0.0281		0.000372	0.0010	0.00100
2-Nitroaniline	88-74-4	4.83	0.0370		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	5.09	0.0349		0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	5.49	0.0379		0.000349	0.01	0.0100
Nitrobenzene	98-95-3	3.62	0.0292		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	2.02	0.0230		0.00126	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413503-1

Lab Sample ID:	R3413503-1	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0521_06	**Received Date/Time:**	_____
Instrument ID:	BNAMS24	**Preparation Date/Time:**	05/21/19 08:38
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/21/19 23:24
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
n-Nitrosodiphenylamine	86-30-6	5.55	0.0344		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.50	0.0341		0.000403	0.01	0.0100
Phenanthrene	85-01-8	6.12	0.0348		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.89	0.0391		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.68	0.0405		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.50	0.0402		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.38	0.0396		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.93	0.0363		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.22	0.0347		0.000330	0.0010	0.00100
Pyridine	110-86-1	2.06	0.00796		0.00137	0.01	0.0100
Benzoic Acid	65-85-0	3.87	0.0269		0.00440	0.01	0.0100
Benzyl Alcohol	100-51-6	3.36	0.0309		0.000393	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.37	0.0319		0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.19	0.0297		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	3.43	0.0283		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.51	0.0298		0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	3.95	0.0301		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.82	0.0286		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.50	0.0463		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.15	0.0438		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	3.80	0.0319		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	5.21	0.0169		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	5.97	0.0397		0.000313	0.01	0.0100
Phenol	108-95-2	3.10	0.0148		0.000334	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.57	0.0364		0.00241	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.67	0.0381		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.64	0.0346		0.000297	0.01	0.0100
n-Decane	124-18-5	3.18	0.0330		0.000596	0.01	0.0100
n-Octadecane	593-45-3	6	0.0371		0.000377	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3414602-1

Lab Sample ID:	R3414602-1	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0523_09	**Received Date/Time:**	_____
Instrument ID:	BNAMS19	**Preparation Date/Time:**	05/21/19 08:38
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/23/19 19:39
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Pentachlorobenzene	608-93-5	5.32	0.0339		0.000369	0.01	0.0100
n-Nitrosodiethylamine	55-18-5	2.81	0.0338		0.000497	0.01	0.0100
n-Nitrosodi-n-butylamine	924-16-3	4.35	0.0360		0.000331	0.01	0.0100
Hexachlorophene	70-30-4	0	ND	J4	0.00144	0.05	0.0500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413503-3

Lab Sample ID:	R3413503-3	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/14/19 10:00
Lab File ID:	0521_18	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	BNAMS24	**Preparation Date/Time:**	05/21/19 08:39
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/22/19 03:25
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acenaphthene	83-32-9	5.15	0.0349		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	5.03	0.0343		0.000309	0.0010	0.00100
Aniline	62-53-3	0	ND	J6	0.00243	0.01	0.0100
Acetophenone	98-86-2	3.53	0.0480		0.00271	0.01	0.0100
1,2-Diphenylhydrazine	103-33-3	5.57	0.0386		0.000318	0.01	0.0100
Benzyl Alcohol	100-51-6	3.42	0.0688	J5	0.000393	0.01	0.0100
Anthracene	120-12-7	6.16	0.0360		0.000291	0.0010	0.00100
Atrazine	1912-24-9	5.93	0.122	J5	0.00153	0.01	0.0100
Benzaldehyde	100-52-7	3.07	0.0519		0.00140	0.01	0.0100
Benzidine	92-87-5	7.12	ND	J6	0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.62	0.0399		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.40	0.0383		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	10.45	0.0386		0.000355	0.0010	0.00100
2-Methylnaphthalene	91-57-6	4.47	0.0289		0.000311	0.0010	0.00100
Benzo(a)pyrene	50-32-8	11.01	0.0384		0.000340	0.0010	0.00100
Biphenyl	92-52-4	4.76	0.0339		0.000325	0.01	0.0100
Bis(2-chlorethoxy)methane	111-91-1	3.88	0.0336		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.14	0.0448		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.45	0.0572		0.000445	0.01	0.0100
Caprolactam	105-60-2	4.28	0.00326	J6	0.00259	0.01	0.0100
Carbazole	86-74-8	6.27	0.0373		0.00162	0.01	0.0100
4-Chloroaniline	106-47-8	4.05	0.0351		0.000382	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.77	0.0319		0.000330	0.0010	0.00100
Pyridine	110-86-1	2.09	0.0208		0.00137	0.01	0.0100
Chrysene	218-01-9	8.67	0.0373		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	13.05	0.0377		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	5.25	0.0361		0.000338	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.53	0.0302		0.000217	0.0010	0.00100
3,3-Dichlorobenzidine	91-94-1	8.57	ND	J6	0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.24	0.0396		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	4.98	0.0363		0.000279	0.01	0.0100
Fluoranthene	206-44-0	7.02	0.0379		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.47	0.0363		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.84	0.0365		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	4.12	0.0255		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.56	0.0171		0.00233	0.01	0.0100
Hexachloroethane	67-72-1	3.59	0.0361		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	13	0.0379		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.78	0.0307		0.000272	0.01	0.0100
Naphthalene	91-20-3	4.05	0.0284		0.000372	0.0010	0.00100
2-Nitroaniline	88-74-4	4.85	0.0389		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	5.05	0.00121	J6	0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	5.47	0.00226	J6	0.000349	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413503-3

Lab Sample ID:	R3413503-3	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/14/19 10:00
Lab File ID:	0521_18	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	BNAMS24	**Preparation Date/Time:**	05/21/19 08:39
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/22/19 03:25
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Nitrobenzene	98-95-3	3.63	0.0313		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	2.03	0.0385		0.00126	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	5.55	0.0371		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.52	0.0650		0.000403	0.01	0.0100
Phenanthrene	85-01-8	6.12	0.0355		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.89	0.0416		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.69	0.0452		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.50	0.0410		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.39	0.0403		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.95	0.0387		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.22	0.0373		0.000330	0.0010	0.00100
Benzoic Acid	65-85-0	4.05	0.342	E J5	0.00440	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.37	0.00159	J6	0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.28	0.0217		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	3.46	0.0560		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.55	0.121	J5	0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	3.97	0.0316		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.84	0.0348		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.50	0.0439		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.17	0.0443		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	3.81	0.0309		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	5.18	0.00492		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	5.99	0.0477		0.000313	0.01	0.0100
Phenol	108-95-2	3.12	0.00547		0.000334	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.57	0.0361		0.00241	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.70	0.0412		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.66	0.0374		0.000297	0.01	0.0100
n-Decane	124-18-5	3.16	0.255	E J5	0.000596	0.01	0.0100
n-Octadecane	593-45-3	6	0.122	J5	0.000377	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413503-4

Lab Sample ID:	R3413503-4	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/14/19 10:00
Lab File ID:	0521_19	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	BNAMS24	**Preparation Date/Time:**	05/21/19 08:39
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/22/19 03:45
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Acenaphthene	83-32-9	5.15	0.0317		0.000316	0.0010	0.00100
Acenaphthylene	208-96-8	5.04	0.0324		0.000309	0.0010	0.00100
Aniline	62-53-3	0	ND	J6	0.00243	0.01	0.0100
Acetophenone	98-86-2	3.53	0.0456		0.00271	0.01	0.0100
1,2-Diphenylhydrazine	103-33-3	5.57	0.0400		0.000318	0.01	0.0100
Benzyl Alcohol	100-51-6	3.42	0.0635	J5	0.000393	0.01	0.0100
Anthracene	120-12-7	6.16	0.0345		0.000291	0.0010	0.00100
Atrazine	1912-24-9	5.93	0.100	J5	0.00153	0.01	0.0100
Benzaldehyde	100-52-7	3.07	0.0481		0.00140	0.01	0.0100
Benzidine	92-87-5	7.12	ND	J6	0.00432	0.01	0.0100
Benzo(a)anthracene	56-55-3	8.62	0.0373		0.0000975	0.0010	0.00100
Benzo(b)fluoranthene	205-99-2	10.41	0.0367		0.0000896	0.0010	0.00100
Benzo(k)fluoranthene	207-08-9	10.46	0.0356		0.000355	0.0010	0.00100
2-Methylnaphthalene	91-57-6	4.47	0.0316		0.000311	0.0010	0.00100
Benzo(a)pyrene	50-32-8	11.02	0.0359		0.000340	0.0010	0.00100
Biphenyl	92-52-4	4.76	0.0316		0.000325	0.01	0.0100
Bis(2-chlorethoxy)methane	111-91-1	3.88	0.0349		0.000329	0.01	0.0100
Bis(2-chloroethyl)ether	111-44-4	3.14	0.0416		0.00162	0.01	0.0100
Bis(2-chloroisopropyl)ether	39638-32-9	3.45	0.0513		0.000445	0.01	0.0100
Caprolactam	105-60-2	4.28	0.00779	J3	0.00259	0.01	0.0100
Carbazole	86-74-8	6.28	0.0349		0.00162	0.01	0.0100
4-Chloroaniline	106-47-8	4.06	0.0269		0.000382	0.01	0.0100
2-Chloronaphthalene	91-58-7	4.77	0.0301		0.000330	0.0010	0.00100
Pyridine	110-86-1	2.10	0.0105	J3	0.00137	0.01	0.0100
Chrysene	218-01-9	8.67	0.0348		0.000332	0.0010	0.00100
Dibenz(a,h)anthracene	53-70-3	13.06	0.0357		0.000279	0.0010	0.00100
Dibenzofuran	132-64-9	5.26	0.0335		0.000338	0.01	0.0100
1-Methylnaphthalene	90-12-0	4.53	0.0328		0.000217	0.0010	0.00100
3,3-Dichlorobenzidine	91-94-1	8.62	ND	J6	0.00202	0.01	0.0100
2,4-Dinitrotoluene	121-14-2	5.24	0.0382		0.00165	0.01	0.0100
2,6-Dinitrotoluene	606-20-2	4.99	0.0348		0.000279	0.01	0.0100
Fluoranthene	206-44-0	7.03	0.0366		0.000310	0.0010	0.00100
Fluorene	86-73-7	5.48	0.0345		0.000323	0.0010	0.00100
Hexachlorobenzene	118-74-1	5.85	0.0357		0.000341	0.0010	0.00100
Hexachloro-1,3-butadiene	87-68-3	4.12	0.0288		0.000329	0.01	0.0100
Hexachlorocyclopentadiene	77-47-4	4.56	0.0156		0.00233	0.01	0.0100
Hexachloroethane	67-72-1	3.59	0.0347		0.000365	0.01	0.0100
Indeno(1,2,3-cd)pyrene	193-39-5	13.01	0.0355		0.000279	0.0010	0.00100
Isophorone	78-59-1	3.78	0.0330		0.000272	0.01	0.0100
Naphthalene	91-20-3	4.05	0.0301		0.000372	0.0010	0.00100
2-Nitroaniline	88-74-4	4.85	0.0362		0.00190	0.01	0.0100
3-Nitroaniline	99-09-2	5.12	0.0121	J3	0.000308	0.01	0.0100
4-Nitroaniline	100-01-6	5.48	0.00194	J6	0.000349	0.01	0.0100

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413503-4

Lab Sample ID:	R3413503-4	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/14/19 10:00
Lab File ID:	0521_19	**Received Date/Time:**	05/15/19 08:45
Instrument ID:	BNAMS24	**Preparation Date/Time:**	05/21/19 08:39
Analytical Batch:	WG1282671	**Analysis Date/Time:**	05/22/19 03:45
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	625.1	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	0.5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Nitrobenzene	98-95-3	3.63	0.0331		0.000367	0.01	0.0100
n-Nitrosodimethylamine	62-75-9	2.04	0.0349		0.00126	0.01	0.0100
n-Nitrosodiphenylamine	86-30-6	5.55	0.0360		0.00119	0.01	0.0100
n-Nitrosodi-n-propylamine	621-64-7	3.53	0.0587		0.000403	0.01	0.0100
Phenanthrene	85-01-8	6.13	0.0342		0.000366	0.0010	0.00100
Benzylbutyl phthalate	85-68-7	7.90	0.0385		0.000275	0.0030	0.00300
Bis(2-ethylhexyl)phthalate	117-81-7	8.69	0.0418		0.000709	0.0030	0.00300
Di-n-butyl phthalate	84-74-2	6.51	0.0387		0.000266	0.0030	0.00300
Diethyl phthalate	84-66-2	5.39	0.0379		0.000282	0.0030	0.00300
Dimethyl phthalate	131-11-3	4.95	0.0362		0.000283	0.0030	0.00300
Pyrene	129-00-0	7.23	0.0351		0.000330	0.0010	0.00100
Benzoic Acid	65-85-0	4.06	0.371	E J5	0.00440	0.01	0.0100
4-Chloro-3-methylphenol	59-50-7	4.41	0.0353	J3	0.000263	0.01	0.0100
2-Chlorophenol	95-57-8	3.28	0.0211		0.000283	0.01	0.0100
2-Methylphenol	95-48-7	3.46	0.0522		0.000312	0.01	0.0100
3&4-Methyl Phenol	3&4-Methyl Phenol	3.55	0.110	J5	0.000266	0.01	0.0100
2,4-Dichlorophenol	120-83-2	3.97	0.0338		0.000284	0.01	0.0100
2,4-Dimethylphenol	105-67-9	3.84	0.0368		0.000624	0.01	0.0100
4,6-Dinitro-2-methylphenol	534-52-1	5.50	0.0441		0.00262	0.01	0.0100
2,4-Dinitrophenol	51-28-5	5.17	0.0439		0.00325	0.01	0.0100
2-Nitrophenol	88-75-5	3.82	0.0340		0.000320	0.01	0.0100
4-Nitrophenol	100-02-7	5.18	0.00445		0.00201	0.01	0.0100
Pentachlorophenol	87-86-5	5.99	0.0465		0.000313	0.01	0.0100
Phenol	108-95-2	3.13	0.00536		0.000334	0.01	0.0100
1,2,4,5-Tetrachlorobenzene	95-94-3	4.57	0.0397		0.00241	0.01	0.0100
2,4,5-Trichlorophenol	95-95-4	4.70	0.0390		0.000236	0.01	0.0100
2,4,6-Trichlorophenol	88-06-2	4.66	0.0352		0.000297	0.01	0.0100
n-Decane	124-18-5	3.16	0.247	J5	0.000596	0.01	0.0100
n-Octadecane	593-45-3	6.01	0.120	J5	0.000377	0.01	0.0100

8015M SVOC-GC-GLYCOLS

2A-OR

SURROGATE RECOVERY

Analytical Method: 8015M **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
MS	R3413206-4	SVGC10	0520_13	70.4	0
MSD	R3413206-5	SVGC10	0520_14	82.4	0
BLANK	R3413206-1	SVGC10	0520_06	71.1	0
LCS	R3413206-2	SVGC10	0520_07	73.3	0
LCSD	R3413206-3	SVGC10	0520_08	71.2	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	1,3-Propanediol	28.0 - 145

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

2A-OR

SURROGATE RECOVERY

Analytical Method: 8015M **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
WW-20190515-002 -DAY 13	L1099840-01	SVGC10	0521A_21	71.2	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	1,3-Propanediol	28.0 - 145

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413206-4
R3413206-5

MS Sample / File ID:	R3413206-4 / 0520_13	**SDG:**	L1099840
MSD Sample / File ID:	R3413206-5 / 0520_14	**Analytical Batch:**	WG1283631
OS Sample / File ID:	L1100514-01 / 0520_12	**Matrix:**	WW
Instrument ID:	SVGC10		
Analytical Method:	8015M		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Ethylene glycol	90.0	U	94.5	98.2	105	109	1	62.0 - 136	3.84	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3413206-2
R3413206-3

LCS Sample / File ID:	R3413206-2 / 0520_07	**SDG:**	L1099840
LCSD Sample / File ID:	R3413206-3 / 0520_08	**Analytical Batch:**	WG1283631
Instrument ID:	SVGC10	**Dilution Factor:**	1
Analytical Method:	8015M	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
Ethylene glycol	90.0	95.4	95.5	106	106	80.0 - 120	0.105	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3413206-1

Lab Sample ID:	R3413206-1	**SDG:**	L1099840
Lab File ID:	0520_06	**Preparation Date/Time:**	05/19/19 20:05
Instrument ID:	SVGC10	**Analysis Date/Time:**	05/20/19 11:07
Analytical Batch:	WG1283631	**Dilution Factor:**	1
Analytical Method:	8015M	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
LCS	R3413206-2	SVGC10	0520_07	05/20/19 11:24
LCSD	R3413206-3	SVGC10	0520_08	05/20/19 11:42
OS	L1100514-01	SVGC10	0520_12	05/20/19 12:54
MS	R3413206-4	SVGC10	0520_13	05/20/19 16:35
MSD	R3413206-5	SVGC10	0520_14	05/20/19 16:52
WW-20190515-002-DAY 13	L1099840-01	SVGC10	0521A_21	05/21/19 20:37

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0521A_21	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/19/19 20:05
Analytical Batch:	WG1283631	**Analysis Date/Time:**	05/21/19 20:37
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	0	U		0.492	5.00	5.00

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10 - 1	**Calibration (end) date/time:**	01/15/19 01:16
Analytical Method:	8015M		

Analyte	**CS: 1.5**	**CS: 15**	**CS: 30**	**CS: 45**	**CS: 60**
ETHYLENE GLYCOL	5.86	5.81	5.76	5.79	5.79
1,3-PROPANEDIOL	7.86	7.82	7.76	7.81	7.81
File ID:	0114_04	0114_05	0114_06	0114_07	0114_08

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10 - 1	**Calibration (end) date/time:**	01/15/19 01:16
Analytical Method:	8015M		

Analyte	**RRF: 1.5**	**RRF: 15**	**RRF: 30**	**RRF: 45**	**RRF: 60**	**RRF. Avg**	**%RSD**	**COD**
ETHYLENE GLYCOL	128700	144600	142400	141900	142500	140041.5	4.59	
1,3-PROPANEDIOL	180500	193100	187700	189100	190100	188099.5	2.49	
File ID:	0114_04	0114_05	0114_06	0114_07	0114_08			

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0114_09	**Analysis date/time:**	01/15/19 01:34
Analytical Method:	8015M	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	30.91	103	80 - 120

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0520_04	**Analysis date/time:**	05/20/19 10:31
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	36.79	123	80 - 120
1,3-PROPANEDIOL	30	36.05	120	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0520_10	**Analysis date/time:**	05/20/19 12:18
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	30.29	101	80 - 120
1,3-PROPANEDIOL	30	29.34	97.80	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0520_20	**Analysis date/time:**	05/20/19 18:39
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	29.69	99	80 - 120
1,3-PROPANEDIOL	30	29.16	97.20	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0521A_12	**Analysis date/time:**	05/21/19 17:57
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	24.37	81.20	80 - 120
1,3-PROPANEDIOL	30	20.54	68.50	50 - 150

7C-OR

CONTINUING CALIBRATION VERIFICATION
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	01/15/19 00:04
Instrument ID:	SVGC10	**Calibration (end) date/time:**	01/15/19 01:16
Lab File ID:	0521A_27	**Analysis date/time:**	05/21/19 22:24
Analytical Method:	8015M	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
ETHYLENE GLYCOL	30	24.05	80.20	80 - 120
1,3-PROPANEDIOL	30	20.76	69.20	50 - 150

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1099840	**Analytical Method:**	8015M
Instrument ID:	SVGC10	**Calibration Start Date:**	01/15/19 00:04
		Calibration End Date:	01/15/19 01:16

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	1.5	0114_04	01/15/19 00:04	1	
CAL	15	0114_05	01/15/19 00:22	1	
CAL	30	0114_06	01/15/19 00:40	1	
CAL	45	0114_07	01/15/19 00:58	1	
CAL	60	0114_08	01/15/19 01:16	1	
SSCV	SVGC100114190114_09465874	0114_09	01/15/19 01:34	1	
CCV	SVGC100520190520_04465874	0520_04	05/20/19 10:31	1	
BLANK	R3413206-1	0520_06	05/20/19 11:07	1	WG1283631
LCS	R3413206-2	0520_07	05/20/19 11:24	1	WG1283631
LCSD	R3413206-3	0520_08	05/20/19 11:42	1	WG1283631
CCV	SVGC100520190520_10465874	0520_10	05/20/19 12:18	1	
OS	L1100514-01	0520_12	05/20/19 12:54	1	WG1283631
MS	R3413206-4	0520_13	05/20/19 16:35	1	WG1283631
MSD	R3413206-5	0520_14	05/20/19 16:52	1	WG1283631
CCV	SVGC100520190520_20465874	0520_20	05/20/19 18:39	1	
CCV	SVGC10052119A0521A_12465874	0521A_12	05/21/19 17:57	1	
WW-20190515-002-DAY 13	L1099840-01	0521A_21	05/21/19 20:37	1	WG1283631
CCV	SVGC10052119A0521A_27465874	0521A_27	05/21/19 22:24	1	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413206-1

Lab Sample ID:	R3413206-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0520_06	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/19/19 20:05
Analytical Batch:	WG1283631	**Analysis Date/Time:**	05/20/19 11:07
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	0	U		0.492	5	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413206-2

Lab Sample ID:	R3413206-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0520_07	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/19/19 20:05
Analytical Batch:	WG1283631	**Analysis Date/Time:**	05/20/19 11:24
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	5.69	95.4		0.492	5	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413206-3

Lab Sample ID:	R3413206-3	**SDG:**	L1099840
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0520_08	**Received Date/Time:**	_____
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/19/19 20:05
Analytical Batch:	WG1283631	**Analysis Date/Time:**	05/20/19 11:42
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	5.70	95.5		0.492	5	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413206-4

Lab Sample ID:	R3413206-4	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/12/19 08:30
Lab File ID:	0520_13	**Received Date/Time:**	05/18/19 08:45
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/19/19 20:05
Analytical Batch:	WG1283631	**Analysis Date/Time:**	05/20/19 16:35
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	5.69	94.5		0.492	5	5.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413206-5

Lab Sample ID:	R3413206-5	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/12/19 08:30
Lab File ID:	0520_14	**Received Date/Time:**	05/18/19 08:45
Instrument ID:	SVGC10	**Preparation Date/Time:**	05/19/19 20:05
Analytical Batch:	WG1283631	**Analysis Date/Time:**	05/20/19 16:52
Dilution Factor:	1	**Prep Method:**	8015
Analytical Method:	8015M	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	5 mL
Total Solids (%):	_____	**Final Wt/Vol:**	15 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Ethylene glycol	107-21-1	5.71	98.2		0.492	5	5.00

8151 Chlorinated Acid Herbicides (GC)

2A-OR

SURROGATE RECOVERY

Analytical Method: 8151 **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	TOT Out
WW-20190515-002 -DAY 13	L1099840-01	SVGC11	0520A_68	93.1	0
BLANK	R3413169-1	SVGC11	0520A_65	114	0
LCS	R3413169-2	SVGC11	0520A_66	95.4	0
LCSD	R3413169-3	SVGC11	0520A_67	112	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	2,4-Dichlorophenyl Acetic Acid	14.0 - 158

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L1099840-01

SAMPLE NO.:
R3413169-2
R3413169-3

LCS Sample / File ID:	R3413169-2 / 0520A_66	**SDG:**	L1099840
LCSD Sample / File ID:	R3413169-3 / 0520A_67	**Analytical Batch:**	WG1283676
Instrument ID:	SVGC11	**Dilution Factor:**	1
Analytical Method:	8151	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*%*	*%*	*%*	*%*	*%*
2,4,5-TP (Silvex)	0.00500	0.00451	0.00525	90.2	105	50.0 - 125	15.2	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3413169-1

Lab Sample ID:	R3413169-1	**SDG:**	L1099840
Lab File ID:	0520A_65	**Preparation Date/Time:**	05/20/19 08:35
Instrument ID:	SVGC11	**Analysis Date/Time:**	05/21/19 01:29
Analytical Batch:	WG1283676	**Dilution Factor:**	1
Analytical Method:	8151	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3413169-2	SVGC11	0520A_66	05/21/19 01:43
LCSD	R3413169-3	SVGC11	0520A_67	05/21/19 01:56
WW-20190515-002-DAY 13	L1099840-01	SVGC11	0520A_68	05/21/19 02:10

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0520A_68	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/20/19 09:44
Analytical Batch:	WG1283676	**Analysis Date/Time:**	05/21/19 02:10
Dilution Factor:	1.08	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	930 mL
Total Solids (%):	_____	**Final Wt/Vol:**	10 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
2,4,5-TP (Silvex)	93-72-1	0	U		0.000913	0.00200	0.00216

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/20/19 13:23
Analytical Method:	8151		

Analyte	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	5.19	5.19	5.19	5.20	5.20	5.20
2,4,5-TP (SILVEX)	6.16	6.16	6.16	6.16	6.16	6.16
File ID:	0520A_07	0520A_08	0520A_09	0520A_12	0520A_10	0520A_11

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/20/19 13:23
Analytical Method:	8151		

Analyte	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	5.37	5.37	5.37	5.37	5.37	5.37
2,4,5-TP (SILVEX)	6.34	6.35	6.35	6.35	6.35	6.35
File ID:	0520A_07	0520A_08	0520A_09	0520A_12	0520A_10	0520A_11

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/20/19 13:23
Analytical Method:	8151		

Analyte	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	1831000	1677000	1633000	1479000	1328000	1456000
2,4,5-TP (SILVEX)	11020000	10580000	10870000	10190000	9640000	9160000
File ID:	0520A_07	0520A_08	0520A_09	0520A_12	0520A_10	0520A_11

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/20/19 13:23
Analytical Method:	8151		

Analyte	RRF. Avg	%RSD	COD
2,4-DICHLOROPHENYL ACETIC ACID	1567219	11.53	
2,4,5-TP (SILVEX)	10243230	7.09	

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/20/19 13:23
Analytical Method:	8151		

Analyte	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1000**
2,4-DICHLOROPHENYL ACETIC ACID	1911000	1528000	1639000	1709000	1685000	1628000
2,4,5-TP (SILVEX)	11330000	9560000	10860000	11990000	12290000	10350000
File ID:	0520A_07	0520A_08	0520A_09	0520A_12	0520A_10	0520A_11

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/20/19 13:23
Analytical Method:	8151		

Analyte	RRF. Avg	%RSD	COD
2,4-DICHLOROPHENYL ACETIC ACID	1683290	7.59	
2,4,5-TP (SILVEX)	11062670	9.25	

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/20/19 13:23
Lab File ID:	0520A_13	**Analysis date/time:**	05/20/19 13:37
Analytical Method:	8151	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2077	104	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/20/19 13:23
Lab File ID:	0520A_13	**Analysis date/time:**	05/20/19 13:37
Analytical Method:	8151	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2061	103	80 - 120

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/20/19 13:23
Lab File ID:	0520A_63	**Analysis date/time:**	05/21/19 01:01
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2781	102	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.1835	91.80	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/20/19 13:23
Lab File ID:	0520A_63	**Analysis date/time:**	05/21/19 01:01
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2781	139	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.2611	131	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 1	**Calibration (end) date/time:**	05/20/19 13:23
Lab File ID:	0520A_78	**Analysis date/time:**	05/21/19 04:26
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2646	114	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.2022	101	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 12:13
Instrument ID:	SVGC11 - 2	**Calibration (end) date/time:**	05/20/19 13:23
Lab File ID:	0520A_78	**Analysis date/time:**	05/21/19 04:26
Analytical Method:	8151	**Sample ID:**	CCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
2,4,5-TP (SILVEX)	0.20	0.2646	132	85 - 115
2,4-DICHLOROPHENYL ACETIC ACID	0.20	0.2516	126	70 - 130

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1099840	**Analytical Method:**	8151
Instrument ID:	SVGC11	**Calibration Start Date:**	05/20/19 12:13
		Calibration End Date:	05/20/19 13:23

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	20	0520A_07	05/20/19 12:13	1	
CAL	50	0520A_08	05/20/19 12:27	1	
CAL	100	0520A_09	05/20/19 12:41	1	
CAL	500	0520A_10	05/20/19 12:55	1	
CAL	1000	0520A_11	05/20/19 13:09	1	
CAL	200	0520A_12	05/20/19 13:23	1	
SSCV	SVGC11052019A0520A_13472269	0520A_13	05/20/19 13:37	1	
CCV	SVGC11052019A0520A_63472269	0520A_63	05/21/19 01:01	1	
BLANK	R3413169-1	0520A_65	05/21/19 01:29	1	WG1283676
LCS	R3413169-2	0520A_66	05/21/19 01:43	1	WG1283676
LCSD	R3413169-3	0520A_67	05/21/19 01:56	1	WG1283676
WW-20190515-002-DAY 13	L1099840-01	0520A_68	05/21/19 02:10	1.08	WG1283676
CCV	SVGC11052019A0520A_78472269	0520A_78	05/21/19 04:26	1	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413169-1

Lab Sample ID:	R3413169-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0520A_65	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/20/19 08:35
Analytical Batch:	WG1283676	**Analysis Date/Time:**	05/21/19 01:29
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	1000 mL
Total Solids (%):	_____	**Final Wt/Vol:**	10 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
2,4,5-TP (Silvex)	93-72-1	0	U		0.000845	0.0020	0.00200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413169-2

Lab Sample ID:	R3413169-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0520A_66	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/20/19 08:35
Analytical Batch:	WG1283676	**Analysis Date/Time:**	05/21/19 01:43
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	1000 mL
Total Solids (%):	_____	**Final Wt/Vol:**	10 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
2,4,5-TP (Silvex)	93-72-1	6.35	0.00451		0.000845	0.0020	0.00200

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413169-3

Lab Sample ID:	R3413169-3	**SDG:**	L1099840
Client Sample ID:	LCSD	**Collected Date/Time:**	_____
Lab File ID:	0520A_67	**Received Date/Time:**	_____
Instrument ID:	SVGC11	**Preparation Date/Time:**	05/20/19 08:35
Analytical Batch:	WG1283676	**Analysis Date/Time:**	05/21/19 01:56
Dilution Factor:	1	**Prep Method:**	8151A
Analytical Method:	8151	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	1000 mL
Total Solids (%):	_____	**Final Wt/Vol:**	10 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
2,4,5-TP (Silvex)	93-72-1	6.35	0.00525		0.000845	0.0020	0.00200

Calc. Calculated Results

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	NONE	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	NONE	**Preparation Date/Time:**	05/22/19 11:46
Analytical Batch:	WG1284142	**Analysis Date/Time:**	05/22/19 11:46
Dilution Factor:	1	**Prep Method:**	Calc.
Analytical Method:	Calc.	**Sample Vol Used:**	10 mL
Matrix:	WW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	_____

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		mg/l		*mg/l*	*mg/l*	*mg/l*
Organic Nitrogen	7727-37-9	0.796		0.0317	0.100	0.100

EPA 608.3 Pesticides (GC)

2A-OR

SURROGATE RECOVERY

Analytical Method: EPA 608.3 **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	DMC-2	TOT Out
				% Rec.	*% Rec.*	
WW-20190515-002 -DAY 13	L1099840-01	SVGC30	0521_34	87.9	54.1	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Decachlorobiphenyl	10.0 - 144
DMC-2	Tetrachloro-m-xylene	10.0 - 135

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

2A-OR

SURROGATE RECOVERY

Analytical Method: EPA 608.3 **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1	DMC-2	TOT Out
				% Rec.	*% Rec.*	
MS	R3413628-3	SVGC30	0521_36	85.9	54.8	0
MSD	R3413628-4	SVGC30	0521_37	81.2	56.9	0
BLANK	R3413628-2	SVGC30	0521_23	117	59.0	0
LCS	R3413628-1	SVGC30	0521_22	125	65.6	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Decachlorobiphenyl	10.0 - 144
DMC-2	Tetrachloro-m-xylene	10.0 - 135

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413628-3
R3413628-4

MS Sample / File ID:	R3413628-3 / 0521_36	**SDG:**	L1099840
MSD Sample / File ID:	R3413628-4 / 0521_37	**Analytical Batch:**	WG1283994
OS Sample / File ID:	L1100207-06 / 0521_35	**Matrix:**	WW
Instrument ID:	SVGC30		
Analytical Method:	EPA 608.3		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
Aldrin	0.00100	ND	0.000746	0.000755	74.6	75.5	1	42.0 - 140	1.20	35
Alpha BHC	0.00100	ND	0.000839	0.000844	83.9	84.4	1	37.0 - 140	0.594	36
Beta BHC	0.00100	ND	0.000920	0.000915	92.0	91.5	1	17.0 - 147	0.545	44
Gamma BHC	0.00100	ND	0.000833	0.000845	83.3	84.5	1	32.0 - 140	1.43	39
4,4-DDD	0.00100	ND	0.000897	0.000888	89.7	88.8	1	31.0 - 141	1.01	39
4,4-DDE	0.00100	ND	0.000839	0.000846	83.9	84.6	1	30.0 - 145	0.831	35
4,4-DDT	0.00100	ND	0.000854	0.000863	85.4	86.3	1	25.0 - 160	1.05	42
Dieldrin	0.00100	ND	0.000975	0.000975	97.5	97.5	1	36.0 - 146	0.000	49
Endosulfan I	0.00100	ND	0.000984	0.000988	98.4	98.8	1	45.0 - 153	0.406	28
Endosulfan II	0.00100	ND	0.000813	0.000861	81.3	86.1	1	1.00 - 202	5.73	53
Endosulfan sulfate	0.00100	ND	0.000893	0.000897	89.3	89.7	1	26.0 - 144	0.447	38
Endrin	0.00100	ND	0.000904	0.000903	90.4	90.3	1	30.0 - 147	0.111	48
Heptachlor	0.00100	ND	0.000829	0.000840	82.9	84.0	1	34.0 - 140	1.32	43
Heptachlor epoxide	0.00100	ND	0.000889	0.000885	88.9	88.5	1	37.0 - 142	0.451	26
Methoxychlor	0.00100	ND	0.000898	0.000875	89.8	87.5	1	44.0 - 160	2.59	22

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413628-1

LCS Sample / File ID:	R3413628-1 / 0521_22	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1283994
Instrument ID:	SVGC30	**Dilution Factor:**	1
Analytical Method:	EPA 608.3	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
Aldrin	0.00100	0.000834		83.4		42.0 - 140		
Alpha BHC	0.00100	0.00101		101		37.0 - 140		
Beta BHC	0.00100	0.00116		116		17.0 - 147		
Gamma BHC	0.00100	0.00101		101		32.0 - 140		
4,4-DDD	0.00100	0.00111		111		31.0 - 141		
4,4-DDE	0.00100	0.00106		106		30.0 - 145		
4,4-DDT	0.00100	0.00109		109		25.0 - 160		
Dieldrin	0.00100	0.00119		119		36.0 - 146		
Endosulfan I	0.00100	0.00120		120		45.0 - 153		
Endosulfan II	0.00100	0.00107		107		1.00 - 202		
Endosulfan sulfate	0.00100	0.00113		113		26.0 - 144		
Endrin	0.00100	0.00112		112		30.0 - 147		
Heptachlor	0.00100	0.00101		101		34.0 - 140		
Heptachlor epoxide	0.00100	0.00119		119		37.0 - 142		
Methoxychlor	0.00100	0.00115		115		44.0 - 160		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3413628-2

Lab Sample ID:	R3413628-2	**SDG:**	L1099840
Lab File ID:	0521_23	**Preparation Date/Time:**	05/21/19 07:40
Instrument ID:	SVGC30	**Analysis Date/Time:**	05/21/19 14:53
Analytical Batch:	WG1283994	**Dilution Factor:**	1
Analytical Method:	EPA 608.3	**Matrix:**	WW

Sample ID	Lab Sample ID	Instrument	File ID	Analysis *date/time*
LCS	R3413628-1	SVGC30	0521_22	05/21/19 14:41
WW-20190515-002-DAY 13	L1099840-01	SVGC30	0521_34	05/21/19 17:10
OS	L1100207-06	SVGC30	0521_35	05/21/19 17:22
MS	R3413628-3	SVGC30	0521_36	05/21/19 17:35
MSD	R3413628-4	SVGC30	0521_37	05/21/19 17:47

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	EPA 608.3
Instrument ID:	SVGC30	**Calibration Start Date:**	05/14/19 10:28
Std File:	AVG	**Calibration End Date:**	05/14/19 15:16
		Std Analysis Date:	AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE	
		Response	*RT*
STANDARD		761161800	2.88
UPPER LIMIT		1141743000	
LOWER LIMIT		380580900	
LCS R3413628-1 WG1283994 1x	0521_22	1533443000	2.60
BLANK R3413628-2 WG1283994 1x	0521_23	1604826000	2.60
L1099840-01 WG1283994 1.08x	0521_34	1672632000	2.60
OS L1100207-06 WG1283994 1x	0521_35	1636852000	2.60
MS R3413628-3 WG1283994 1x	0521_36	1679516000	2.60
MSD R3413628-4 WG1283994 1x	0521_37	1626471000	2.60

1-BROMO-2-DINITROBENZENE - 1-BROMO-2-DINITROBENZENE

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0521_34	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	SVGC30	**Preparation Date/Time:**	05/21/19 07:42
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 17:10
Dilution Factor:	1.08	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	93 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
Aldrin	309-00-2	0	U		0.00000878	0.0000500	0.0000540
Alpha BHC	319-84-6	0	U		0.0000179	0.0000500	0.0000540
Beta BHC	319-85-7	0	U		0.0000199	0.0000500	0.0000540
Gamma BHC	58-89-9	0	U		0.0000190	0.0000500	0.0000540
Chlordane	57-74-9	0	U		0.000106	0.000500	0.000540
4,4-DDD	72-54-8	0	U		0.0000184	0.0000500	0.0000540
4,4-DDE	72-55-9	0	U		0.0000177	0.0000500	0.0000540
4,4-DDT	50-29-3	0	U		0.0000191	0.0000500	0.0000540
Dieldrin	60-57-1	0	U		0.00000811	0.0000500	0.0000540
Endosulfan I	959-98-8	0	U		0.0000193	0.0000500	0.0000540
Endosulfan II	33213-65-9	0	U		0.0000190	0.0000500	0.0000540
Endosulfan sulfate	1031-07-8	0	U		0.0000212	0.0000500	0.0000540
Endrin	72-20-8	0	U		0.0000204	0.0000500	0.0000540
Heptachlor	76-44-8	0	U		0.0000117	0.0000500	0.0000540
Heptachlor epoxide	1024-57-3	0	U		0.0000189	0.0000500	0.0000540
Methoxychlor	72-43-5	0	U		0.0000208	0.0000500	0.0000540
Toxaphene	8001-35-2	0	U		0.000181	0.000500	0.000540

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 1	**Calibration (end) date/time:**	05/14/19 15:16
Analytical Method:	EPA 608.3		

Analyte	**CS: 0.4**	**CS: 1**	**CS: 5**	**CS: 10**	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 10T**	**CS: 50T**
TETRACHLORO-M-XYLENE	3.68	3.68	3.68	3.68	3.68	3.68	3.69	3.69		
ALPHA BHC	4.35	4.35	4.35	4.35	4.35	4.35	4.35	4.35		
GAMMA BHC	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70		
BETA BHC	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80		
ALDRIN	5.38	5.38	5.38	5.38	5.38	5.38	5.38	5.38		
DIELDRIN	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41		
DECACHLOROBIPHENYL	8.66	8.66	8.66	8.66	8.66	8.66	8.66	8.66		
HEPTACHLOR		5.10	5.10	5.10	5.10	5.10	5.10	5.10		
HEPTACHLOR EPOXIDE		5.87	5.87	5.87	5.87	5.87	5.88	5.88		
ENDOSULFAN I		6.19	6.19	6.19	6.19	6.19	6.19	6.19		
4,4-DDE		6.30	6.30	6.30	6.30	6.30	6.30	6.30		
ENDRIN		6.65	6.65	6.65	6.65	6.65	6.65	6.65		
4,4-DDD		6.76	6.76	6.76	6.76	6.76	6.76	6.76		
ENDOSULFAN II		6.83	6.83	6.83	6.83	6.83	6.83	6.83		
4,4-DDT		7	7	7	7	7	7	7		
ENDOSULFAN SULFATE		7.31	7.31	7.31	7.31	7.31	7.31	7.31		
METHOXYCHLOR		7.53	7.54	7.53	7.53	7.53	7.53	7.53		
TOXAPHENE									6.50	6.40
CHLORDANE										
File ID:	0514A_08	0514A_09	0514A_10	0514A_11	0514A_12	0514A_13	0514A_14	0514A_15	0514A_19	0514A_20

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 1	**Calibration (end) date/time:**	05/14/19 15:16
Analytical Method:	EPA 608.3		

Analyte	**CS: 100T**	**CS: 200T**	**CS: 500T**	**CS: 1KT**	**CS: 10C**	**CS: 50C**	**CS: 100C**	**CS: 200C**	**CS: 500C**	**CS: 1KC**
TETRACHLORO-M-XYLENE										
ALPHA BHC										
GAMMA BHC										
BETA BHC										
ALDRIN										
DIELDRIN										
DECACHLOROBIPHENYL										
HEPTACHLOR										
HEPTACHLOR EPOXIDE										
ENDOSULFAN I										
4,4-DDE										
ENDRIN										
4,4-DDD										
ENDOSULFAN II										
4,4-DDT										
ENDOSULFAN SULFATE										
METHOXYCHLOR										
TOXAPHENE	6.40	6.40	6.40	6.40						
CHLORDANE					5.10	4.95	4.95	4.95	4.95	4.95
File ID:	0514A_21	0514A_22	0514A_23	0514A_24	0514A_26	0514A_27	0514A_28	0514A_29	0514A_30	0514A_31

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 2	**Calibration (end) date/time:**	05/14/19 15:16
Analytical Method:	EPA 608.3		

Analyte	**CS: 0.4**	**CS: 1**	**CS: 5**	**CS: 10**	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 10T**	**CS: 50T**
TETRACHLORO-M-XYLENE	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83		
ALPHA BHC	4.43	4.43	4.43	4.43	4.43	4.43	4.44	4.44		
GAMMA BHC	4.75	4.75	4.75	4.75	4.75	4.75	4.75	4.75		
BETA BHC	4.85	4.85	4.85	4.85	4.85	4.85	4.85	4.85		
ALDRIN	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47		
DIELDRIN	6.51	6.51	6.51	6.51	6.51	6.51	6.51	6.51		
DECACHLOROBIPHENYL	8.52	8.52	8.52	8.52	8.51	8.51	8.52	8.52		
HEPTACHLOR		5.20	5.20	5.20	5.20	5.20	5.20	5.20		
HEPTACHLOR EPOXIDE		5.99	5.99	5.99	5.99	5.99	5.99	5.99		
ENDOSULFAN I		6.32	6.32	6.32	6.32	6.32	6.32	6.32		
4,4-DDE		6.28	6.28	6.28	6.28	6.28	6.28	6.28		
ENDRIN		6.69	6.69	6.69	6.69	6.69	6.69	6.69		
4,4-DDD		6.75	6.75	6.75	6.75	6.75	6.75	6.75		
ENDOSULFAN II		6.87	6.87	6.87	6.87	6.87	6.87	6.87		
4,4-DDT		6.97	6.97	6.97	6.97	6.97	6.97	6.97		
ENDOSULFAN SULFATE		7.54	7.54	7.54	7.54	7.54	7.54	7.54		
METHOXYCHLOR		7.34	7.34	7.34	7.34	7.34	7.34	7.34		
TOXAPHENE									6.50	6.50
CHLORDANE										
File ID:	0514A_08	0514A_09	0514A_10	0514A_11	0514A_12	0514A_13	0514A_14	0514A_15	0514A_19	0514A_20

6B-OR

RETENTION TIME
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 2	**Calibration (end) date/time:**	05/14/19 15:16
Analytical Method:	EPA 608.3		

Analyte	**CS: 100T**	**CS: 200T**	**CS: 500T**	**CS: 1KT**	**CS: 10C**	**CS: 50C**	**CS: 100C**	**CS: 200C**	**CS: 500C**	**CS: 1KC**
TETRACHLORO-M-XYLENE										
ALPHA BHC										
GAMMA BHC										
BETA BHC										
ALDRIN										
DIELDRIN										
DECACHLOROBIPHENYL										
HEPTACHLOR										
HEPTACHLOR EPOXIDE										
ENDOSULFAN I										
4,4-DDE										
ENDRIN										
4,4-DDD										
ENDOSULFAN II										
4,4-DDT										
ENDOSULFAN SULFATE										
METHOXYCHLOR										
TOXAPHENE	6.50	6.50	6.50	6.50						
CHLORDANE					4.95	5.10	5.10	5.10	5.10	5.10
File ID:	0514A_21	0514A_22	0514A_23	0514A_24	0514A_26	0514A_27	0514A_28	0514A_29	0514A_30	0514A_31

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 1	**Calibration (end) date/time:**	05/14/19 15:16
Analytical Method:	EPA 608.3		

Analyte	**RRF: 0.4**	**RRF: 1**	**RRF: 5**	**RRF: 10**	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**
TETRACHLORO-M-XYLENE	1.4380	1.4830	1.2630	1.2090	1.10	1.0870	1.05	1.07
ALPHA BHC	1.9750	1.9560	1.7640	1.7230	1.6060	1.6380	1.6170	1.7180
GAMMA BHC	1.77	1.7060	1.5380	1.5010	1.3960	1.4180	1.4020	1.4860
BETA BHC	0.8210	0.8090	0.6830	0.64	0.5860	0.5710	0.5530	0.5730
ALDRIN	1.67	1.7090	1.50	1.4490	1.3350	1.3130	1.2560	1.2680
DIELDRIN	1.5550	1.5620	1.2980	1.2490	1.1410	1.1010	1.0390	1.0360
DECACHLOROBIPHENYL	0.6090	0.6590	0.7280	0.6650	0.6010	0.6030	0.6090	0.6320
HEPTACHLOR		1.5270	1.3260	1.2760	1.1610	1.1310	1.07	1.07
HEPTACHLOR EPOXIDE		1.5350	1.2930	1.2330	1.1150	1.0640	0.9960	0.9910
ENDOSULFAN I		1.4320	1.2270	1.17	1.0560	1.0070	0.9360	0.9250
4,4-DDE		1.3650	1.2790	1.24	1.1490	1.1450	1.1120	1.1460
ENDRIN		1.2650	1.1260	1.0850	0.9790	0.9420	0.8830	0.8790
4,4-DDD		1.1180	0.9750	0.9470	0.8740	0.8650	0.84	0.8640
ENDOSULFAN II		1.2630	1.1360	1.0890	0.9890	0.9450	0.8870	0.8840
4,4-DDT		0.9880	0.9180	0.9010	0.8320	0.8330	0.82	0.8510
ENDOSULFAN SULFATE		1.1350	1.0690	1.0340	0.9490	0.9230	0.8750	0.88
METHOXYCHLOR		0.5140	0.4440	0.4210	0.3810	0.3670	0.3460	0.3450
TOXAPHENE								
CHLORDANE								
File ID:	0514A_08	0514A_09	0514A_10	0514A_11	0514A_12	0514A_13	0514A_14	0514A_15

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 1	**Calibration (end) date/time:**	05/14/19 15:16
Analytical Method:	EPA 608.3		

Analyte	**RRF: 10T**	**RRF: 50T**	**RRF: 100T**	**RRF: 200T**	**RRF: 500T**	**RRF: 1KT**	**RRF: 10C**	**RRF: 50C**
TETRACHLORO-M-XYLENE								
ALPHA BHC								
GAMMA BHC								
BETA BHC								
ALDRIN								
DIELDRIN								
DECACHLOROBIPHENYL								
HEPTACHLOR								
HEPTACHLOR EPOXIDE								
ENDOSULFAN I								
4,4-DDE								
ENDRIN								
4,4-DDD								
ENDOSULFAN II								
4,4-DDT								
ENDOSULFAN SULFATE								
METHOXYCHLOR								
TOXAPHENE	1.8590	0.9660	0.7440	0.6760	0.6320	0.6290		
CHLORDANE							1.5410	1.1480
File ID:	0514A_19	0514A_20	0514A_21	0514A_22	0514A_23	0514A_24	0514A_26	0514A_27

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 1	**Calibration (end) date/time:**	05/14/19 15:16
Analytical Method:	EPA 608.3		

Analyte	**RRF: 100C**	**RRF: 200C**	**RRF: 500C**	**RRF: 1KC**	**RRF. Avg**	**%RSD**	**COD**
TETRACHLORO-M-XYLENE					1.212635	14	
ALPHA BHC					1.749584	8.25	
GAMMA BHC					1.527062	9.2	
BETA BHC					0.654613	16.46	0.999
ALDRIN					1.437389	12.32	
DIELDRIN					1.24737	17.07	0.998
DECACHLOROBIPHENYL					0.63821	6.89	
HEPTACHLOR					1.223056	13.56	
HEPTACHLOR EPOXIDE					1.175318	16.6	0.998
ENDOSULFAN I					1.107532	16.44	0.998
4,4-DDE					1.20528	7.65	
ENDRIN					1.022795	13.93	
4,4-DDD					0.926179	10.57	
ENDOSULFAN II					1.027498	13.73	
4,4-DDT					0.877728	6.98	
ENDOSULFAN SULFATE					0.980737	10.21	
METHOXYCHLOR					0.402695	15.24	
TOXAPHENE					0.917791	52.06	0.999
CHLORDANE	0.9950	0.9550	0.8950	0.89	1.070753	23.25	0.999
File ID:	0514A_28	0514A_29	0514A_30	0514A_31			

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 2	**Calibration (end) date/time:**	05/14/19 15:16
Analytical Method:	EPA 608.3		

Analyte	**RRF: 0.4**	**RRF: 1**	**RRF: 5**	**RRF: 10**	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**
TETRACHLORO-M-XYLENE	0.9180	0.9710	0.9710	0.9780	0.9380	0.9830	0.9660	1
ALPHA BHC	1.2810	1.2570	1.3540	1.4320	1.42	1.5110	1.5250	1.6120
GAMMA BHC	1.0750	1.1320	1.2290	1.2760	1.2630	1.33	1.3460	1.43
BETA BHC	0.53	0.5570	0.5280	0.5230	0.4960	0.5110	0.5110	0.5360
ALDRIN	1.0610	1.1310	1.2270	1.2740	1.2490	1.3160	1.3130	1.3660
DIELDRIN	0.9430	1.0420	1.0920	1.1320	1.1130	1.1530	1.1430	1.1910
DECACHLOROBIPHENYL	0.7580	0.72	0.7790	0.7660	0.7330	0.7520	0.7510	0.8060
HEPTACHLOR		1.1980	1.2270	1.2710	1.2290	1.2780	1.2580	1.31
HEPTACHLOR EPOXIDE		1.0590	1.0960	1.12	1.0890	1.1120	1.0940	1.1370
ENDOSULFAN I		0.9930	1.02	1.0280	1.0010	1.0160	0.9990	1.0260
4,4-DDE		0.9650	1.0440	1.0890	1.0740	1.13	1.1390	1.1970
ENDRIN		0.9360	0.9850	1.0290	0.9990	1.0330	1.0260	1.0640
4,4-DDD		0.7590	0.83	0.8790	0.8610	0.9130	0.9250	0.9770
ENDOSULFAN II		0.91	0.9390	0.9610	0.9340	0.9520	0.9430	0.9790
4,4-DDT		0.8080	0.8830	0.92	0.9030	0.9530	0.9630	1.0180
ENDOSULFAN SULFATE		0.8640	0.8840	0.9280	0.8920	0.9380	0.9430	0.9860
METHOXYCHLOR		0.4960	0.5120	0.4810	0.4620	0.47	0.4630	0.4790
TOXAPHENE								
CHLORDANE								
File ID:	0514A_08	0514A_09	0514A_10	0514A_11	0514A_12	0514A_13	0514A_14	0514A_15

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 2	**Calibration (end) date/time:**	05/14/19 15:16
Analytical Method:	EPA 608.3		

Analyte	**RRF: 10T**	**RRF: 50T**	**RRF: 100T**	**RRF: 200T**	**RRF: 500T**	**RRF: 1KT**	**RRF: 10C**	**RRF: 50C**
TETRACHLORO-M-XYLENE								
ALPHA BHC								
GAMMA BHC								
BETA BHC								
ALDRIN								
DIELDRIN								
DECACHLOROBIPHENYL								
HEPTACHLOR								
HEPTACHLOR EPOXIDE								
ENDOSULFAN I								
4,4-DDE								
ENDRIN								
4,4-DDD								
ENDOSULFAN II								
4,4-DDT								
ENDOSULFAN SULFATE								
METHOXYCHLOR								
TOXAPHENE	2.8310	1.0790	0.7260	0.5910	0.5770	0.6050		
CHLORDANE							1.2730	0.9840
File ID:	0514A_19	0514A_20	0514A_21	0514A_22	0514A_23	0514A_24	0514A_26	0514A_27

6C-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
SINGLE COMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 2	**Calibration (end) date/time:**	05/14/19 15:16
Analytical Method:	EPA 608.3		

Analyte	RRF: 100C	RRF: 200C	RRF: 500C	RRF: 1KC	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					0.965717	2.7	
ALPHA BHC					1.423844	8.66	
GAMMA BHC					1.26022	9.15	
BETA BHC					0.52397	3.52	
ALDRIN					1.241905	8.18	
DIELDRIN					1.101033	7.06	
DECACHLOROBIPHENYL					0.757985	3.49	
HEPTACHLOR					1.253099	3	
HEPTACHLOR EPOXIDE					1.100694	2.27	
ENDOSULFAN I					1.012027	1.39	
4,4-DDE					1.09114	6.84	
ENDRIN					1.010269	4.1	
4,4-DDD					0.877717	8.06	
ENDOSULFAN II					0.945607	2.29	
4,4-DDT					0.92118	7.25	
ENDOSULFAN SULFATE					0.919272	4.57	
METHOXYCHLOR					0.480277	3.8	
TOXAPHENE					1.068237	82.74	0.997
CHLORDANE	0.8390	0.8110	0.7970	0.8290	0.922208	20.05	0.999
File ID:	0514A_28	0514A_29	0514A_30	0514A_31			

7B-OR

PESTICIDE BREAKDOWN

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30	**Calibration (end) date/time:**	05/14/19 15:16
Lab File ID:	0521_02	**Analysis date/time:**	05/21/19 07:27
Analytical Method:	EPA 608.3		

Analyte	Column 2 Response	Column 2 %Breakdown
ENDRIN ALDEHYDE	306106	
ENDRIN KETONE	3258447	
ENDRIN	173358600	2.06
4,4-DDE	862670	
4,4-DDD	924695	
4,4-DDT	319542500	0.5590

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 1	**Calibration (end) date/time:**	05/14/19 15:16
Lab File ID:	0514A_17-1	**Analysis date/time:**	05/14/19 12:20
Analytical Method:	EPA 608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.05	0.04657	93.10	80 - 120
4,4-DDE	0.05	0.04633	92.70	80 - 120
4,4-DDT	0.05	0.04701	94	80 - 120
ALDRIN	0.05	0.04363	87.30	80 - 120
ALPHA BHC	0.05	0.04670	93.40	80 - 120
BETA BHC	0.05	0.05137	103	80 - 120
CHLORPYRIFOS	0.05	0.05770	115	80 - 120
DECACHLOROBIPHENYL	0.05	0.05046	101	10 - 144
DIELDRIN	0.05	0.05133	103	80 - 120
ENDOSULFAN I	0.05	0.05146	103	80 - 120
ENDOSULFAN II	0.05	0.04600	92	80 - 120
ENDOSULFAN SULFATE	0.05	0.04410	88.20	80 - 120
ENDRIN	0.05	0.04533	90.70	80 - 120
GAMMA BHC	0.05	0.04548	91	80 - 120
HEPTACHLOR	0.05	0.04524	90.50	80 - 120
HEPTACHLOR EPOXIDE	0.05	0.05127	103	80 - 120
HEXACHLOROBENZENE	0.05	0.04471	89.40	80 - 120
METHOXYCHLOR	0.05	0.04619	92.40	80 - 120
TETRACHLORO-M-XYLENE	0.05	0.04470	89.40	10 - 135

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 2	**Calibration (end) date/time:**	05/14/19 15:16
Lab File ID:	0514A_17-1	**Analysis date/time:**	05/14/19 12:20
Analytical Method:	EPA 608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.05	0.05293	106	80 - 120
4,4-DDE	0.05	0.05153	103	80 - 120
4,4-DDT	0.05	0.05203	104	80 - 120
ALDRIN	0.05	0.05181	104	80 - 120
ALPHA BHC	0.05	0.05323	106	80 - 120
BETA BHC	0.05	0.05067	101	80 - 120
CHLORPYRIFOS	0.05	0.04701	94	80 - 120
DECACHLOROBIPHENYL	0.05	0.05365	107	10 - 144
DIELDRIN	0.05	0.05267	105	80 - 120
ENDOSULFAN I	0.05	0.04984	99.70	80 - 120
ENDOSULFAN II	0.05	0.05140	103	80 - 120
ENDOSULFAN SULFATE	0.05	0.04933	98.70	80 - 120
ENDRIN	0.05	0.05077	102	80 - 120
GAMMA BHC	0.05	0.05226	105	80 - 120
HEPTACHLOR	0.05	0.05048	101	80 - 120
HEPTACHLOR EPOXIDE	0.05	0.05055	101	80 - 120
HEXACHLOROBENZENE	0.05	0.04840	96.80	80 - 120
METHOXYCHLOR	0.05	0.04942	98.80	80 - 120
TETRACHLORO-M-XYLENE	0.05	0.05128	103	10 - 135

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 1	**Calibration (end) date/time:**	05/14/19 15:16
Lab File ID:	0521_20-1	**Analysis date/time:**	05/21/19 11:35
Analytical Method:	EPA 608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.02	0.01944	97.20	75 - 125
4,4-DDE	0.02	0.01969	98.40	75 - 125
4,4-DDT	0.02	0.01987	99.30	75 - 125
ALDRIN	0.02	0.01852	92.60	75 - 125
ALPHA BHC	0.02	0.01850	92.50	69 - 125
BETA BHC	0.02	0.02075	104	75 - 125
CHLORPYRIFOS	0.02	0.02556	128	75 - 125
DECACHLOROBIPHENYL	0.02	0.02418	121	70 - 130
DIELDRIN	0.02	0.02153	108	48 - 125
ENDOSULFAN I	0.02	0.02178	109	75 - 125
ENDOSULFAN II	0.02	0.01994	99.70	75 - 125
ENDOSULFAN SULFATE	0.02	0.02014	101	70 - 125
ENDRIN	0.02	0.01984	99.20	5 - 125
GAMMA BHC	0.02	0.01867	93.40	75 - 125
HEPTACHLOR	0.02	0.01997	99.80	75 - 125
HEPTACHLOR EPOXIDE	0.02	0.02180	109	75 - 125
HEXACHLOROBENZENE	0.02	0.01836	91.80	75 - 125
METHOXYCHLOR	0.02	0.02084	104	75 - 125
TETRACHLORO-M-XYLENE	0.02	0.01819	91	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/14/19 10:28
Instrument ID:	SVGC30 - 2	**Calibration (end) date/time:**	05/14/19 15:16
Lab File ID:	0521_20-1	**Analysis date/time:**	05/21/19 11:35
Analytical Method:	EPA 608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
4,4-DDD	0.02	0.02006	100	75 - 125
4,4-DDE	0.02	0.01969	98.40	75 - 125
4,4-DDT	0.02	0.02002	100	75 - 125
ALDRIN	0.02	0.01987	99.30	75 - 125
ALPHA BHC	0.02	0.01970	98.50	69 - 125
BETA BHC	0.02	0.01883	94.20	75 - 125
CHLORPYRIFOS	0.02	0.01910	95.50	75 - 125
DECACHLOROBIPHENYL	0.02	0.02111	106	70 - 130
DIELDRIN	0.02	0.01961	98.10	48 - 125
ENDOSULFAN I	0.02	0.01939	97	75 - 125
ENDOSULFAN II	0.02	0.01958	97.90	75 - 125
ENDOSULFAN SULFATE	0.02	0.02040	102	70 - 125
ENDRIN	0.02	0.02058	103	5 - 125
GAMMA BHC	0.02	0.01992	99.60	75 - 125
HEPTACHLOR	0.02	0.02019	101	75 - 125
HEPTACHLOR EPOXIDE	0.02	0.01969	98.40	75 - 125
HEXACHLOROBENZENE	0.02	0.01832	91.60	75 - 125
METHOXYCHLOR	0.02	0.01952	97.60	75 - 125
TETRACHLORO-M-XYLENE	0.02	0.01900	95	70 - 130

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1099840	**Analytical Method:**	EPA 608.3
Instrument ID:	SVGC30	**Calibration Start Date:**	05/14/19 10:28
		Calibration End Date:	05/14/19 15:16

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	0.4	0514A_08	05/14/19 10:28	1	
CAL	1	0514A_09	05/14/19 10:40	1	
CAL	5	0514A_10	05/14/19 10:53	1	
CAL	10	0514A_11	05/14/19 11:05	1	
CAL	20	0514A_12	05/14/19 11:18	1	
CAL	50	0514A_13	05/14/19 11:30	1	
CAL	100	0514A_14	05/14/19 11:43	1	
CAL	200	0514A_15	05/14/19 11:55	1	
SSCV	SVGC30051419A0514A_17-1471905	0514A_17-1	05/14/19 12:20	20	
CAL	10T	0514A_19	05/14/19 12:45	1	
CAL	50T	0514A_20	05/14/19 12:57	1	
CAL	100T	0514A_21	05/14/19 13:10	1	
CAL	200T	0514A_22	05/14/19 13:22	1	
CAL	500T	0514A_23	05/14/19 13:34	1	
CAL	1KT	0514A_24	05/14/19 13:47	1	
CAL	10C	0514A_26	05/14/19 14:13	1	
CAL	50C	0514A_27	05/14/19 14:26	1	
CAL	100C	0514A_28	05/14/19 14:38	1	
CAL	200C	0514A_29	05/14/19 14:51	1	
CAL	500C	0514A_30	05/14/19 15:03	1	
CAL	1KC	0514A_31	05/14/19 15:16	1	
BREAKDOWN	SVGC300521190521_02471905	0521_02	05/21/19 07:27	10	
ICV	SVGC300521190521_20-1471905	0521_20-1	05/21/19 11:35	10	
LCS	R3413628-1	0521_22	05/21/19 14:41	1	WG1283994
BLANK	R3413628-2	0521_23	05/21/19 14:53	1	WG1283994
WW-20190515-002-DAY 13	L1099840-01	0521_34	05/21/19 17:10	1.08	WG1283994
OS	L1100207-06	0521_35	05/21/19 17:22	1	WG1283994
MS	R3413628-3	0521_36	05/21/19 17:35	1	WG1283994
MSD	R3413628-4	0521_37	05/21/19 17:47	1	WG1283994

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3413628-2

Lab Sample ID:	R3413628-2	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0521_23	**Received Date/Time:**	_____
Instrument ID:	SVGC30	**Preparation Date/Time:**	05/21/19 07:40
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 14:53
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Aldrin	1	0	U	0
Alpha BHC	1	0	U	0
Beta BHC	1	0	U	0
Gamma BHC	1	0	U	0
4,4-DDD	1	0	U	0
4,4-DDE	1	0	U	0
4,4-DDT	1	0	U	0
Dieldrin	1	0	U	0
Endosulfan I	1	0	U	0
Endosulfan II	1	0	U	0
Endosulfan sulfate	1	0	U	0
Endrin	1	0	U	0
Heptachlor	1	0	U	0
Heptachlor epoxide	1	0	U	0
Methoxychlor	1	0	U	0
Chlordane	1	0	U	0
Toxaphene	1	0	U	0

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.:
R3413628-1

Lab Sample ID:	R3413628-1	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0521_22	**Received Date/Time:**	_____
Instrument ID:	SVGC30	**Preparation Date/Time:**	05/21/19 07:40
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 14:41
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Aldrin	1	5.38	0.000834	4.51
Alpha BHC	1	4.35	0.00101	5.93
Beta BHC	1	4.80	0.00116	8.14
Gamma BHC	1	4.70	0.00101	5.9
4,4-DDD	1	6.76	0.00111	1.86
4,4-DDE	1	6.30	0.00106	.754
4,4-DDT	1	7	0.00109	2.62
Dieldrin	1	6.42	0.00119	5.46
Endosulfan I	1	6.19	0.00120	11.6
Endosulfan II	1	6.83	0.00107	.375
Endosulfan sulfate	1	7.31	0.00113	.486
Endrin	1	6.66	0.00112	2.26
Heptachlor	1	5.10	0.00101	.348
Heptachlor epoxide	1	5.88	0.00119	9.59
Methoxychlor	1	7.54	0.00115	4.08

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.: R3413628-3

Lab Sample ID:	R3413628-3	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 07:48
Lab File ID:	0521_36	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	SVGC30	**Preparation Date/Time:**	05/21/19 07:42
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 17:35
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Aldrin	1	5.38	0.000746	7.55
	2	5.47	0.000805	
Alpha BHC	1	4.35	0.000839	8.23
	2	4.43	0.000911	
Beta BHC	1	4.80	0.000920	1.81
	2	4.84	0.000903	
Gamma BHC	1	4.70	0.000833	10.8
	2	4.75	0.000928	
4,4-DDD	1	6.76	0.000897	2.03
	2	6.75	0.000879	
4,4-DDE	1	6.30	0.000839	1.87
	2	6.27	0.000823	
4,4-DDT	1	7	0.000854	.816
	2	6.97	0.000861	
Dieldrin	1	6.41	0.000975	9.8
	2	6.51	0.000884	
Endosulfan I	1	6.19	0.000984	12.5
	2	6.31	0.000868	
Endosulfan II	1	6.83	0.000813	5.74
	2	6.87	0.000861	
Endosulfan sulfate	1	7.31	0.000893	1.83
	2	7.54	0.000910	
Endrin	1	6.65	0.000904	4.7
	2	6.69	0.000947	
Heptachlor	1	5.10	0.000829	11.5
	2	5.20	0.000931	
Heptachlor epoxide	1	5.87	0.000889	.393
	2	5.99	0.000892	
Methoxychlor	1	7.54	0.000898	1.66
	2	7.34	0.000913	

10A-OR

SINGLE COMPONENT ANALYSIS IDENTIFICATION

SAMPLE NO.: R3413628-4

Lab Sample ID:	R3413628-4	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/15/19 07:48
Lab File ID:	0521_37	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	SVGC30	**Preparation Date/Time:**	05/21/19 07:42
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 17:47
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**Column**	**RT**	**Concentration** *mg/l*	**% Diff.**
Aldrin	1	5.38	0.000755	7.53
	2	5.47	0.000814	
Alpha BHC	1	4.35	0.000844	9.8
	2	4.43	0.000931	
Beta BHC	1	4.80	0.000915	.164
	2	4.84	0.000916	
Gamma BHC	1	4.70	0.000845	11.5
	2	4.75	0.000948	
4,4-DDD	1	6.76	0.000888	2.12
	2	6.75	0.000907	
4,4-DDE	1	6.30	0.000846	1.87
	2	6.27	0.000861	
4,4-DDT	1	7	0.000863	5.96
	2	6.97	0.000916	
Dieldrin	1	6.41	0.000975	6.51
	2	6.51	0.000914	
Endosulfan I	1	6.19	0.000988	8.88
	2	6.31	0.000904	
Endosulfan II	1	6.83	0.000861	4.38
	2	6.87	0.000899	
Endosulfan sulfate	1	7.31	0.000897	9.96
	2	7.54	0.000991	
Endrin	1	6.65	0.000903	7.87
	2	6.69	0.000977	
Heptachlor	1	5.10	0.000840	11.9
	2	5.20	0.000947	
Heptachlor epoxide	1	5.87	0.000885	1.79
	2	5.99	0.000901	
Methoxychlor	1	7.54	0.000875	15
	2	7.34	0.00102	

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413628-2

Lab Sample ID:	R3413628-2	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0521_23	**Received Date/Time:**	_____
Instrument ID:	SVGC30	**Preparation Date/Time:**	05/21/19 07:40
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 14:53
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Aldrin	309-00-2	0	U		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	0	U		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	0	U		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	0	U		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	0	U		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	0	U		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	0	U		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	0	U		0.00000751	0.000050	0.0000500
Endosulfan I	959-98-8	0	U		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	0	U		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	0	U		0.0000196	0.000050	0.0000500
Endrin	72-20-8	0	U		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	0	U		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	0	U		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	0	U		0.0000193	0.000050	0.0000500
Chlordane	57-74-9	0	U		0.0000977	0.0005	0.000500
Toxaphene	8001-35-2	0	U		0.000168	0.0005	0.000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413628-1

Lab Sample ID:	R3413628-1	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0521_22	**Received Date/Time:**	_____
Instrument ID:	SVGC30	**Preparation Date/Time:**	05/21/19 07:40
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 14:41
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**CAS**	**RT**	**Result**	**Qualifier**	**SDL**	**Unadj. MQL**	**MQL**
			mg/l		*mg/l*	*mg/l*	*mg/l*
Aldrin	309-00-2	5.38	0.000834		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	4.35	0.00101		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	4.80	0.00116		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	4.70	0.00101		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	6.76	0.00111		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	6.30	0.00106		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	7	0.00109		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	6.42	0.00119		0.0000179	0.000050	0.0000500
Endosulfan I	959-98-8	6.19	0.00120		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	6.83	0.00107		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	7.31	0.00113		0.0000196	0.000050	0.0000500
Endrin	72-20-8	6.66	0.00112		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	5.10	0.00101		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	5.88	0.00119		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	7.54	0.00115		0.0000193	0.000050	0.0000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413628-3

Lab Sample ID:	R3413628-3	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 07:48
Lab File ID:	0521_36	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	SVGC30	**Preparation Date/Time:**	05/21/19 07:42
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 17:35
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Aldrin	309-00-2	5.38	0.000746		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	4.35	0.000839		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	4.80	0.000920		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	4.70	0.000833		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	6.76	0.000897		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	6.30	0.000839		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	7	0.000854		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	6.41	0.000975		0.0000179	0.000050	0.0000500
Endosulfan I	959-98-8	6.19	0.000984		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	6.83	0.000813		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	7.31	0.000893		0.0000196	0.000050	0.0000500
Endrin	72-20-8	6.65	0.000904		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	5.10	0.000829		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	5.87	0.000889		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	7.54	0.000898		0.0000193	0.000050	0.0000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413628-4

Lab Sample ID:	R3413628-4	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/15/19 07:48
Lab File ID:	0521_37	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	SVGC30	**Preparation Date/Time:**	05/21/19 07:42
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 17:47
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA 608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
Aldrin	309-00-2	5.38	0.000755		0.00000813	0.000050	0.0000500
Alpha BHC	319-84-6	4.35	0.000844		0.0000166	0.000050	0.0000500
Beta BHC	319-85-7	4.80	0.000915		0.0000184	0.000050	0.0000500
Gamma BHC	58-89-9	4.70	0.000845		0.0000176	0.000050	0.0000500
4,4-DDD	72-54-8	6.76	0.000888		0.0000170	0.000050	0.0000500
4,4-DDE	72-55-9	6.30	0.000846		0.0000164	0.000050	0.0000500
4,4-DDT	50-29-3	7	0.000863		0.0000177	0.000050	0.0000500
Dieldrin	60-57-1	6.41	0.000975		0.0000179	0.000050	0.0000500
Endosulfan I	959-98-8	6.19	0.000988		0.0000179	0.000050	0.0000500
Endosulfan II	33213-65-9	6.83	0.000861		0.0000176	0.000050	0.0000500
Endosulfan sulfate	1031-07-8	7.31	0.000897		0.0000196	0.000050	0.0000500
Endrin	72-20-8	6.65	0.000903		0.0000189	0.000050	0.0000500
Heptachlor	76-44-8	5.10	0.000840		0.0000108	0.000050	0.0000500
Heptachlor epoxide	1024-57-3	5.87	0.000885		0.0000175	0.000050	0.0000500
Methoxychlor	72-43-5	7.54	0.000875		0.0000193	0.000050	0.0000500

EPA-608.3 Polychlorinated Biphenyls (GC)

2A-OR

SURROGATE RECOVERY

Analytical Method: EPA-608.3 **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	TOT Out
WW-20190515-002 -DAY 13	L1099840-01	SVGC28	0521a_12	77.9	54.6	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Decachlorobiphenyl	10.0 - 144
DMC-2	Tetrachloro-m-xylene	10.0 - 135

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

2A-OR

SURROGATE RECOVERY

Analytical Method: EPA-608.3 **SDG:** L1099840
Matrix: WW

Sample ID	Lab Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	TOT Out
MS	R3413779-3	SVGC28	0521a_23	98.4	70.7	0
MSD	R3413779-4	SVGC28	0521a_24	95.3	67.0	0
BLANK	R3413779-1	SVGC28	0521a_09	98.6	63.8	0
LCS	R3413779-2	SVGC28	0521a_10	95.8	67.5	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Decachlorobiphenyl	10.0 - 144
DMC-2	Tetrachloro-m-xylene	10.0 - 135

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

L1099840-01

SAMPLE NO.:
R3413779-3
R3413779-4

MS Sample / File ID:	R3413779-3 / 0521a_23	**SDG:**	L1099840
MSD Sample / File ID:	R3413779-4 / 0521a_24	**Analytical Batch:**	WG1283994
OS Sample / File ID:	L1100207-06 / 0521a_22	**Matrix:**	WW
Instrument ID:	SVGC28		
Analytical Method:	EPA-608.3		

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*	*mg/l*	*mg/l*	*%*	*%*		*%*	*%*	*%*
PCB 1260	0.00250	ND	0.00247	0.00248	98.8	99.2	1	8.00 - 140	0.404	38
PCB 1016	0.00250	ND	0.00282	0.00288	113	115	1	50.0 - 140	2.11	36

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY
L1099840-01

SAMPLE NO.:
R3413779-2

LCS Sample / File ID:	R3413779-2 / 0521a_10	**SDG:**	L1099840
LCSD Sample / File ID:	_____	**Analytical Batch:**	WG1283994
Instrument ID:	SVGC28	**Dilution Factor:**	1
Analytical Method:	EPA-608.3	**Matrix:**	WW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	mg/l	*mg/l*		*%*	*%*	*%*	*%*	*%*
PCB 1260	0.00250	0.00231		92.4		8.00 - 140		
PCB 1016	0.00250	0.00232		92.8		50.0 - 140		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

4A-OR

METHOD BLANK

SAMPLE NO.:
R3413779-1

Lab Sample ID:	R3413779-1	**SDG:**	L1099840
Lab File ID:	0521a_09	**Preparation Date/Time:**	05/21/19 07:40
Instrument ID:	SVGC28	**Analysis Date/Time:**	05/21/19 17:23
Analytical Batch:	WG1283994	**Dilution Factor:**	1
Analytical Method:	EPA-608.3	**Matrix:**	WW

Sample ID	**Lab Sample ID**	**Instrument**	**File ID**	**Analysis** *date/time*
LCS	R3413779-2	SVGC28	0521a_10	05/21/19 17:35
WW-20190515-002-DAY 13	L1099840-01	SVGC28	0521a_12	05/21/19 18:00
OS	L1100207-06	SVGC28	0521a_22	05/21/19 20:04
MS	R3413779-3	SVGC28	0521a_23	05/21/19 20:17
MSD	R3413779-4	SVGC28	0521a_24	05/21/19 20:29

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L1099840	**Analytical Method:**	EPA-608.3
Instrument ID:	SVGC28	**Calibration Start Date:**	05/20/19 08:09
Std File:	AVG	**Calibration End Date:**	05/20/19 10:50
		Std Analysis Date:	AVG

Sample ID	File ID	1-BROMO-2-DINITROBENZENE	
		Response	*RT*
STANDARD		1005809429	2.35
UPPER LIMIT		1599415000	
LOWER LIMIT		399853800	
BLANK R3413779-1 WG1283994 1x	0521a_09	850253900	2.35
LCS R3413779-2 WG1283994 1x	0521a_10	874219600	2.35
L1099840-01 WG1283994 1.08x	0521a_12	976467600	2.35
OS L1100207-06 WG1283994 1x	0521a_22	933034900	2.35
MS R3413779-3 WG1283994 1x	0521a_23	821218100	2.35
MSD R3413779-4 WG1283994 1x	0521a_24	851147300	2.35

1-BROMO-2-DINITROBENZENE - 1-BROMO-2-DINITROBENZENE

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
WW-20190515-002-DAY 13

Lab Sample ID:	L1099840-01	**SDG:**	L1099840
Client Sample ID:	WW-20190515-002-DAY 13	**Collected Date/Time:**	05/15/19 11:30
Lab File ID:	0521a_12	**Received Date/Time:**	05/17/19 08:00
Instrument ID:	SVGC28	**Preparation Date/Time:**	05/21/19 07:42
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 18:00
Dilution Factor:	1.08	**Prep Method:**	3510C
Analytical Method:	EPA-608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	93 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	**CAS**	**RT**	**Result** *mg/l*	**Qualifier**	**SDL** *mg/l*	**Unadj. MQL** *mg/l*	**MQL** *mg/l*
PCB 1016	12674-11-2	0	U		0.000108	0.000500	0.000540
PCB 1221	11104-28-2	0	U		0.0000788	0.000500	0.000540
PCB 1232	11141-16-5	0	U		0.0000454	0.000500	0.000540
PCB 1242	53469-21-9	0	U		0.0000508	0.000500	0.000540
PCB 1248	12672-29-6	0	U		0.0000929	0.000500	0.000540
PCB 1254	11097-69-1	0	U		0.0000508	0.000500	0.000540
PCB 1260	11096-82-5	0	U		0.000130	0.000500	0.000540
Total PCBs	1336-36-3	0	U		0.0000454	0.000500	0.000540

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 1	**Calibration (end) date/time:**	05/20/19 10:50
Analytical Method:	EPA-608.3		

Analyte	**CS: 5**	**CS: 10**	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1221**	**CS: 1232**	**CS: 1242**
TETRACHLORO-M-XYLENE	*3.35*	*3.35*	*3.35*	*3.35*	*3.35*	*3.35*	*3.35*			
AROCLOR 1016(1)	*3.95*	*3.95*	*3.95*	*3.95*	*3.95*	*3.95*	*3.95*			
AROCLOR 1016(2)	*4.37*	*4.37*	*4.37*	*4.37*	*4.37*	*4.37*	*4.37*			
AROCLOR 1016(3)	*4.91*	*4.91*	*4.91*	*4.91*	*4.91*	*4.91*	*4.91*			
AROCLOR 1016(4)	*5.43*	*5.43*	*5.43*	*5.43*	*5.42*	*5.42*	*5.42*			
AROCLOR 1016(5)	*5.82*	*5.82*	*5.82*	*5.82*	*5.82*	*5.82*	*5.82*			
AROCLOR 1260(1)	*6.34*	*6.34*	*6.34*	*6.34*	*6.34*	*6.34*	*6.34*			
AROCLOR 1260(2)	*6.78*	*6.78*	*6.78*	*6.78*	*6.78*	*6.78*	*6.78*			
AROCLOR 1260(3)	*7.08*	*7.08*	*7.08*	*7.08*	*7.08*	*7.08*	*7.08*			
AROCLOR 1260(4)	*7.27*	*7.27*	*7.27*	*7.27*	*7.27*	*7.27*	*7.27*			
AROCLOR 1260(5)	*7.55*	*7.55*	*7.55*	*7.55*	*7.55*	*7.55*	*7.56*			
DECACHLOROBIPHENYL	*8.44*	*8.44*	*8.44*	*8.44*	*8.44*	*8.44*	*8.44*			
AROCLOR 1221(1)								*2.78*		
AROCLOR 1221(2)								*3.73*		
AROCLOR 1221(3)								*3.89*		
AROCLOR 1221(4)								*3.95*		
AROCLOR 1221(5)								*4.79*		
AROCLOR 1232(1)									*3.95*	
AROCLOR 1232(2)									*4.37*	
AROCLOR 1232(3)									*4.91*	
AROCLOR 1232(4)									*5.43*	
AROCLOR 1232(5)									*5.85*	
AROCLOR 1242(1)										*3.95*
AROCLOR 1242(2)										*4.36*
AROCLOR 1242(3)										*4.91*
AROCLOR 1242(4)										*5.42*
AROCLOR 1242(5)										*5.85*
AROCLOR 1248(1)										
AROCLOR 1248(2)										
AROCLOR 1248(3)										
AROCLOR 1248(4)										
AROCLOR 1248(5)										
AROCLOR 1254(1)										
AROCLOR 1254(2)										
AROCLOR 1254(3)										
AROCLOR 1254(4)										
AROCLOR 1254(5)										
AROCLOR 1262(1)										
AROCLOR 1262(2)										
AROCLOR 1262(3)										
AROCLOR 1262(4)										
AROCLOR 1262(5)										
AROCLOR 1268(1)										
AROCLOR 1268(2)										
AROCLOR 1268(3)										
AROCLOR 1268(4)										
AROCLOR 1268(5)										
File ID:	0520_09	0520_08	0520_07	0520_06	0520_05	0520_04	0520_03	0520_10	0520_11	0520_12

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 1	**Calibration (end) date/time:**	05/20/19 10:50
Analytical Method:	EPA-608.3		

Analyte	**CS: 1248**	**CS: 1254**	**CS: 1262**	**CS: 1268**
TETRACHLORO-M-XYLENE				
AROCLOR 1016(1)				
AROCLOR 1016(2)				
AROCLOR 1016(3)				
AROCLOR 1016(4)				
AROCLOR 1016(5)				
AROCLOR 1260(1)				
AROCLOR 1260(2)				
AROCLOR 1260(3)				
AROCLOR 1260(4)				
AROCLOR 1260(5)				
DECACHLOROBIPHENYL				
AROCLOR 1221(1)				
AROCLOR 1221(2)				
AROCLOR 1221(3)				
AROCLOR 1221(4)				
AROCLOR 1221(5)				
AROCLOR 1232(1)				
AROCLOR 1232(2)				
AROCLOR 1232(3)				
AROCLOR 1232(4)				
AROCLOR 1232(5)				
AROCLOR 1242(1)				
AROCLOR 1242(2)				
AROCLOR 1242(3)				
AROCLOR 1242(4)				
AROCLOR 1242(5)				
AROCLOR 1248(1)	*4.36*			
AROCLOR 1248(2)	*5.32*			
AROCLOR 1248(3)	*5.67*			
AROCLOR 1248(4)	*6.19*			
AROCLOR 1248(5)	*6.64*			
AROCLOR 1254(1)		*5.66*		
AROCLOR 1254(2)		*6.19*		
AROCLOR 1254(3)		*6.37*		
AROCLOR 1254(4)		*6.50*		
AROCLOR 1254(5)		*6.78*		
AROCLOR 1262(1)			*6.50*	
AROCLOR 1262(2)			*6.85*	
AROCLOR 1262(3)			*7.08*	
AROCLOR 1262(4)			*7.27*	
AROCLOR 1262(5)			*7.99*	
AROCLOR 1268(1)				*7.08*
AROCLOR 1268(2)				*7.55*
AROCLOR 1268(3)				*7.78*
AROCLOR 1268(4)				*7.99*
AROCLOR 1268(5)				*8.24*
File ID:	0520_13	0520_14	0520_15	0520_16

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 2	**Calibration (end) date/time:**	05/20/19 10:50
Analytical Method:	EPA-608.3		

Analyte	**CS: 5**	**CS: 10**	**CS: 20**	**CS: 50**	**CS: 100**	**CS: 200**	**CS: 500**	**CS: 1221**	**CS: 1232**	**CS: 1242**
TETRACHLORO-M-XYLENE	*3.46*	*3.46*	*3.46*	*3.46*	*3.46*	*3.46*	*3.46*			
AROCLOR 1016(1)	*3.93*	*3.93*	*3.93*	*3.92*	*3.92*	*3.92*	*3.92*			
AROCLOR 1016(2)	*4.30*	*4.30*	*4.30*	*4.30*	*4.30*	*4.30*	*4.30*			
AROCLOR 1016(3)	*4.89*	*4.89*	*4.88*	*4.88*	*4.87*	*4.87*	*4.87*			
AROCLOR 1016(4)	*5.56*	*5.56*	*5.56*	*5.56*	*5.56*	*5.55*	*5.55*			
AROCLOR 1016(5)	*5.78*	*5.77*	*5.77*	*5.77*	*5.77*	*5.77*	*5.77*			
AROCLOR 1260(1)	*6.24*	*6.24*	*6.24*	*6.24*	*6.24*	*6.23*	*6.23*			
AROCLOR 1260(2)	*6.68*	*6.68*	*6.68*	*6.67*	*6.67*	*6.67*	*6.67*			
AROCLOR 1260(3)	*6.95*	*6.95*	*6.95*	*6.95*	*6.95*	*6.95*	*6.95*			
AROCLOR 1260(4)	*7.19*	*7.19*	*7.19*	*7.19*	*7.19*	*7.19*	*7.19*			
AROCLOR 1260(5)	*7.41*	*7.41*	*7.41*	*7.41*	*7.41*	*7.41*	*7.41*			
DECACHLOROBIPHENYL	*8.24*	*8.24*	*8.24*	*8.24*	*8.24*	*8.24*	*8.24*			
AROCLOR 1221(1)								*2.78*		
AROCLOR 1221(2)								*3.71*		
AROCLOR 1221(3)								*3.88*		
AROCLOR 1221(4)								*3.93*		
AROCLOR 1221(5)								*4.48*		
AROCLOR 1232(1)									*3.93*	
AROCLOR 1232(2)									*4.30*	
AROCLOR 1232(3)									*4.88*	
AROCLOR 1232(4)									*5.31*	
AROCLOR 1232(5)									*5.78*	
AROCLOR 1242(1)										*3.93*
AROCLOR 1242(2)										*4.30*
AROCLOR 1242(3)										*4.88*
AROCLOR 1242(4)										*5.31*
AROCLOR 1242(5)										*5.78*
AROCLOR 1248(1)										
AROCLOR 1248(2)										
AROCLOR 1248(3)										
AROCLOR 1248(4)										
AROCLOR 1248(5)										
AROCLOR 1254(1)										
AROCLOR 1254(2)										
AROCLOR 1254(3)										
AROCLOR 1254(4)										
AROCLOR 1254(5)										
AROCLOR 1262(1)										
AROCLOR 1262(2)										
AROCLOR 1262(3)										
AROCLOR 1262(4)										
AROCLOR 1262(5)										
AROCLOR 1268(1)										
AROCLOR 1268(2)										
AROCLOR 1268(3)										
AROCLOR 1268(4)										
AROCLOR 1268(5)										
File ID:	0520_09	0520_08	0520_07	0520_06	0520_05	0520_04	0520_03	0520_10	0520_11	0520_12

6D-OR

RETENTION TIME
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 2	**Calibration (end) date/time:**	05/20/19 10:50
Analytical Method:	EPA-608.3		

Analyte	**CS: 1248**	**CS: 1254**	**CS: 1262**	**CS: 1268**
TETRACHLORO-M-XYLENE				
AROCLOR 1016(1)				
AROCLOR 1016(2)				
AROCLOR 1016(3)				
AROCLOR 1016(4)				
AROCLOR 1016(5)				
AROCLOR 1260(1)				
AROCLOR 1260(2)				
AROCLOR 1260(3)				
AROCLOR 1260(4)				
AROCLOR 1260(5)				
DECACHLOROBIPHENYL				
AROCLOR 1221(1)				
AROCLOR 1221(2)				
AROCLOR 1221(3)				
AROCLOR 1221(4)				
AROCLOR 1221(5)				
AROCLOR 1232(1)				
AROCLOR 1232(2)				
AROCLOR 1232(3)				
AROCLOR 1232(4)				
AROCLOR 1232(5)				
AROCLOR 1242(1)				
AROCLOR 1242(2)				
AROCLOR 1242(3)				
AROCLOR 1242(4)				
AROCLOR 1242(5)				
AROCLOR 1248(1)	*4.30*			
AROCLOR 1248(2)	*5.23*			
AROCLOR 1248(3)	*5.62*			
AROCLOR 1248(4)	*6.09*			
AROCLOR 1248(5)	*6.54*			
AROCLOR 1254(1)		*5.55*		
AROCLOR 1254(2)		*6.09*		
AROCLOR 1254(3)		*6.32*		
AROCLOR 1254(4)		*6.46*		
AROCLOR 1254(5)		*6.67*		
AROCLOR 1262(1)			*6.24*	
AROCLOR 1262(2)			*6.76*	
AROCLOR 1262(3)			*6.95*	
AROCLOR 1262(4)			*7.19*	
AROCLOR 1262(5)			*7.88*	
AROCLOR 1268(1)				*6.95*
AROCLOR 1268(2)				*7.43*
AROCLOR 1268(3)				*7.61*
AROCLOR 1268(4)				*7.88*
AROCLOR 1268(5)				*8.09*
File ID:	0520_13	0520_14	0520_15	0520_16

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 1	**Calibration (end) date/time:**	05/20/19 10:50
Analytical Method:	EPA-608.3		

Analyte	**RRF: 5**	**RRF: 10**	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1221**	**RRF: 1232**	**RRF: 1242**
TETRACHLORO-M-XYLENE	2.0970	2.3260	2.3080	2.6220	2.63	2.4470	2.81			
AROCLOR 1016(1)	0.0370	0.0430	0.0420	0.0490	0.0480	0.0450	0.05			
AROCLOR 1016(2)	0.11	0.1140	0.1080	0.1170	0.1130	0.1020	0.1130			
AROCLOR 1016(3)	0.0850	0.0930	0.0910	0.0950	0.0930	0.0840	0.0930			
AROCLOR 1016(4)	0.48	0.2770	0.1670	0.1110	0.0890	0.0740	0.0720			
AROCLOR 1016(5)	0.0470	0.0520	0.0470	0.0490	0.0470	0.0420	0.0450			
AROCLOR 1260(1)	0.1240	0.1270	0.1190	0.13	0.1260	0.1140	0.1280			
AROCLOR 1260(2)	0.1670	0.1650	0.1650	0.1820	0.1750	0.1610	0.1740			
AROCLOR 1260(3)	0.1060	0.11	0.1040	0.1150	0.11	0.1020	0.1170			
AROCLOR 1260(4)	0.1940	0.21	0.2010	0.2120	0.2040	0.1910	0.22			
AROCLOR 1260(5)	0.1220	0.1280	0.1240	0.1380	0.1320	0.1220	0.1410			
DECACHLOROBIPHENYL	1.5330	1.6290	1.5650	1.7760	1.7880	1.6960	2.0120			
AROCLOR 1221(1)								0.0180		
AROCLOR 1221(2)								0.0210		
AROCLOR 1221(3)								0.0130		
AROCLOR 1221(4)								0.0510		
AROCLOR 1221(5)								0.0090		
AROCLOR 1232(1)									0.0430	
AROCLOR 1232(2)									0.0410	
AROCLOR 1232(3)									0.0330	
AROCLOR 1232(4)									0.0440	
AROCLOR 1232(5)									0.02	
AROCLOR 1242(1)										0.0310
AROCLOR 1242(2)										0.0710
AROCLOR 1242(3)										0.0590
AROCLOR 1242(4)										0.0670
AROCLOR 1242(5)										0.0390
AROCLOR 1248(1)										
AROCLOR 1248(2)										
AROCLOR 1248(3)										
AROCLOR 1248(4)										
AROCLOR 1248(5)										
AROCLOR 1254(1)										
AROCLOR 1254(2)										
AROCLOR 1254(3)										
AROCLOR 1254(4)										
AROCLOR 1254(5)										
AROCLOR 1262(1)										
AROCLOR 1262(2)										
AROCLOR 1262(3)										
AROCLOR 1262(4)										
AROCLOR 1262(5)										
AROCLOR 1268(1)										
AROCLOR 1268(2)										
AROCLOR 1268(3)										
AROCLOR 1268(4)										
AROCLOR 1268(5)										
File ID:	0520_09	0520_08	0520_07	0520_06	0520_05	0520_04	0520_03	0520_10	0520_11	0520_12

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 1	**Calibration (end) date/time:**	05/20/19 10:50
Analytical Method:	EPA-608.3		

Analyte	RRF: 1248	RRF: 1254	RRF: 1262	RRF: 1268	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					2.463038	9.82	
AROCLOR 1016(1)					0.044697	10.65	
AROCLOR 1016(2)					0.110807	4.23	
AROCLOR 1016(3)					0.090567	4.77	
AROCLOR 1016(4)					0.18147	82.85	0.999
AROCLOR 1016(5)					0.046942	6.96	
AROCLOR 1260(1)					0.124136	4.5	
AROCLOR 1260(2)					0.16985	4.33	
AROCLOR 1260(3)					0.109089	5.15	
AROCLOR 1260(4)					0.204334	5.05	
AROCLOR 1260(5)					0.129609	5.98	
DECACHLOROBIPHENYL					1.714337	9.55	
AROCLOR 1221(1)					0.017765		
AROCLOR 1221(2)					0.020839		
AROCLOR 1221(3)					0.013195		
AROCLOR 1221(4)					0.050671		
AROCLOR 1221(5)					0.009195		
AROCLOR 1232(1)					0.043175		
AROCLOR 1232(2)					0.041324		
AROCLOR 1232(3)					0.033004		
AROCLOR 1232(4)					0.044385		
AROCLOR 1232(5)					0.019699		
AROCLOR 1242(1)					0.031307		
AROCLOR 1242(2)					0.070863		
AROCLOR 1242(3)					0.058504		
AROCLOR 1242(4)					0.067144		
AROCLOR 1242(5)					0.038625		
AROCLOR 1248(1)	0.0350				0.035371		
AROCLOR 1248(2)	0.0680				0.067513		
AROCLOR 1248(3)	0.0850				0.084589		
AROCLOR 1248(4)	0.0470				0.046709		
AROCLOR 1248(5)	0.0250				0.025095		
AROCLOR 1254(1)		0.0780			0.077832		
AROCLOR 1254(2)		0.1170			0.11738		
AROCLOR 1254(3)		0.0690			0.069329		
AROCLOR 1254(4)		0.0530			0.052955		
AROCLOR 1254(5)		0.1030			0.103436		
AROCLOR 1262(1)			0.0790		0.079397		
AROCLOR 1262(2)			0.1090		0.108754		
AROCLOR 1262(3)			0.1020		0.101932		
AROCLOR 1262(4)			0.1860		0.185822		
AROCLOR 1262(5)			0.0790		0.079066		
AROCLOR 1268(1)				0.0560	0.055832		
AROCLOR 1268(2)				0.1930	0.19295		
AROCLOR 1268(3)				0.1820	0.181866		
AROCLOR 1268(4)				0.0760	0.076199		
AROCLOR 1268(5)				0.5420	0.542334		
File ID:	0520_13	0520_14	0520_15	0520_16			

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 2	**Calibration (end) date/time:**	05/20/19 10:50
Analytical Method:	EPA-608.3		

Analyte	**RRF: 5**	**RRF: 10**	**RRF: 20**	**RRF: 50**	**RRF: 100**	**RRF: 200**	**RRF: 500**	**RRF: 1221**	**RRF: 1232**	**RRF: 1242**
TETRACHLORO-M-XYLENE	0.7670	0.8450	0.8610	1.0080	1.0230	0.9430	1.0660			
AROCLOR 1016(1)	0.0210	0.0230	0.0230	0.0260	0.0260	0.0240	0.0260			
AROCLOR 1016(2)	0.0350	0.0350	0.0350	0.0370	0.0350	0.0310	0.0340			
AROCLOR 1016(3)	0.0270	0.0290	0.0280	0.0320	0.0310	0.0280	0.03			
AROCLOR 1016(4)	0.0150	0.0140	0.0140	0.0150	0.0130	0.0110	0.0120			
AROCLOR 1016(5)	0.0170	0.0170	0.0160	0.0170	0.0170	0.0150	0.0150			
AROCLOR 1260(1)	0.0410	0.0420	0.0410	0.0440	0.0420	0.0370	0.04			
AROCLOR 1260(2)	0.06	0.0650	0.0650	0.0710	0.0690	0.0620	0.0690			
AROCLOR 1260(3)	0.0350	0.0380	0.0390	0.0410	0.04	0.0360	0.0390			
AROCLOR 1260(4)	0.0850	0.0870	0.0890	0.0930	0.0910	0.0830	0.0930			
AROCLOR 1260(5)	0.0420	0.0450	0.0630	0.0530	0.0540	0.0510	0.0590			
DECACHLOROBIPHENYL	0.7810	0.7790	0.7510	0.8440	0.8410	0.7880	0.9180			
AROCLOR 1221(1)								0.0070		
AROCLOR 1221(2)								0.0080		
AROCLOR 1221(3)								0.0050		
AROCLOR 1221(4)								0.0230		
AROCLOR 1221(5)								0.0020		
AROCLOR 1232(1)									0.02	
AROCLOR 1232(2)									0.0150	
AROCLOR 1232(3)									0.0110	
AROCLOR 1232(4)									0.0060	
AROCLOR 1232(5)									0.0090	
AROCLOR 1242(1)										0.0150
AROCLOR 1242(2)										0.0270
AROCLOR 1242(3)										0.0220
AROCLOR 1242(4)										0.0120
AROCLOR 1242(5)										0.0170
AROCLOR 1248(1)										
AROCLOR 1248(2)										
AROCLOR 1248(3)										
AROCLOR 1248(4)										
AROCLOR 1248(5)										
AROCLOR 1254(1)										
AROCLOR 1254(2)										
AROCLOR 1254(3)										
AROCLOR 1254(4)										
AROCLOR 1254(5)										
AROCLOR 1262(1)										
AROCLOR 1262(2)										
AROCLOR 1262(3)										
AROCLOR 1262(4)										
AROCLOR 1262(5)										
AROCLOR 1268(1)										
AROCLOR 1268(2)										
AROCLOR 1268(3)										
AROCLOR 1268(4)										
AROCLOR 1268(5)										
File ID:	0520_09	0520_08	0520_07	0520_06	0520_05	0520_04	0520_03	0520_10	0520_11	0520_12

6E-OR

CALIBRATION FACTOR
INITIAL CALIBRATION OF
MULTICOMPONENT ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 2	**Calibration (end) date/time:**	05/20/19 10:50
Analytical Method:	EPA-608.3		

Analyte	RRF: 1248	RRF: 1254	RRF: 1262	RRF: 1268	RRF. Avg	%RSD	COD
TETRACHLORO-M-XYLENE					0.930466	11.75	
AROCLOR 1016(1)					0.024232	8.79	
AROCLOR 1016(2)					0.034676	4.98	
AROCLOR 1016(3)					0.02934	5.44	
AROCLOR 1016(4)					0.01334	9.73	
AROCLOR 1016(5)					0.016225	6.9	
AROCLOR 1260(1)					0.040966	5.24	
AROCLOR 1260(2)					0.065946	5.98	
AROCLOR 1260(3)					0.038432	5.83	
AROCLOR 1260(4)					0.088871	4.33	
AROCLOR 1260(5)					0.052509	13.9	
DECACHLOROBIPHENYL					0.81457	6.96	
AROCLOR 1221(1)					0.007239		
AROCLOR 1221(2)					0.008115		
AROCLOR 1221(3)					0.004797		
AROCLOR 1221(4)					0.023285		
AROCLOR 1221(5)					0.002084		
AROCLOR 1232(1)					0.019748		
AROCLOR 1232(2)					0.014836		
AROCLOR 1232(3)					0.011459		
AROCLOR 1232(4)					0.005879		
AROCLOR 1232(5)					0.009046		
AROCLOR 1242(1)					0.014609		
AROCLOR 1242(2)					0.026987		
AROCLOR 1242(3)					0.021503		
AROCLOR 1242(4)					0.01197		
AROCLOR 1242(5)					0.017072		
AROCLOR 1248(1)	0.0130				0.013124		
AROCLOR 1248(2)	0.0340				0.034403		
AROCLOR 1248(3)	0.0310				0.03105		
AROCLOR 1248(4)	0.0170				0.016685		
AROCLOR 1248(5)	0.0110				0.011277		
AROCLOR 1254(1)		0.0260			0.025801		
AROCLOR 1254(2)		0.0450			0.045113		
AROCLOR 1254(3)		0.0370			0.036521		
AROCLOR 1254(4)		0.0320			0.032203		
AROCLOR 1254(5)		0.0470			0.046686		
AROCLOR 1262(1)			0.0290		0.029199		
AROCLOR 1262(2)			0.05		0.050159		
AROCLOR 1262(3)			0.0440		0.043842		
AROCLOR 1262(4)			0.0920		0.092397		
AROCLOR 1262(5)			0.0360		0.036036		
AROCLOR 1268(1)				0.0240	0.024492		
AROCLOR 1268(2)				0.1050	0.104706		
AROCLOR 1268(3)				0.0950	0.094765		
AROCLOR 1268(4)				0.0510	0.050732		
AROCLOR 1268(5)				0.3250	0.325371		
File ID:	0520_13	0520_14	0520_15	0520_16			

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 1	**Calibration (end) date/time:**	05/20/19 10:50
Lab File ID:	0520_30-1	**Analysis date/time:**	05/20/19 16:17
Analytical Method:	EPA-608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.08431	84.30	10 - 144
PCB 1016	0.10	0.08035	80.30	80 - 120
PCB 1260	0.10	0.07959	79.60	80 - 120
TETRACHLORO-M-XYLENE	0.10	0.08698	87	10 - 135

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 2	**Calibration (end) date/time:**	05/20/19 10:50
Lab File ID:	0520_30-1	**Analysis date/time:**	05/20/19 16:17
Analytical Method:	EPA-608.3	**Sample ID:**	SSCV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.09291	92.90	10 - 144
PCB 1016	0.10	0.1006	101	80 - 120
PCB 1260	0.10	0.08836	88.40	80 - 120
TETRACHLORO-M-XYLENE	0.10	0.1025	103	10 - 135

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 1	**Calibration (end) date/time:**	05/20/19 10:50
Lab File ID:	0521a_07-1	**Analysis date/time:**	05/21/19 16:58
Analytical Method:	EPA-608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.1225	123	70 - 130
PCB 1016	0.10	0.1186	116	75 - 125
PCB 1260	0.10	0.1143	115	75 - 125
TETRACHLORO-M-XYLENE	0.10	0.1267	127	70 - 130

7D-OR

CONTINUING CALIBRATION VERIFICATION
DUAL COLUMN ANALYTES

SDG:	L1099840	**Calibration (begin) date/time:**	05/20/19 08:09
Instrument ID:	SVGC28 - 2	**Calibration (end) date/time:**	05/20/19 10:50
Lab File ID:	0521a_07-1	**Analysis date/time:**	05/21/19 16:58
Analytical Method:	EPA-608.3	**Sample ID:**	ICV

Analyte	**True Value**	**Result**	**Result**	**Limits**
	mg/l	*mg/l*	*% Rec.*	*%*
DECACHLOROBIPHENYL	0.10	0.1184	118	70 - 130
PCB 1016	0.10	0.1186	119	75 - 125
PCB 1260	0.10	0.1143	114	75 - 125
TETRACHLORO-M-XYLENE	0.10	0.1292	129	70 - 130

8B-OR

ANALYTICAL SEQUENCE

SDG:	L1099840	**Analytical Method:**	EPA-608.3
Instrument ID:	SVGC28	**Calibration Start Date:**	05/20/19 08:09
		Calibration End Date:	05/20/19 10:50

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CAL	500	0520_03	05/20/19 08:09	1	
CAL	200	0520_04	05/20/19 08:21	1	
CAL	100	0520_05	05/20/19 08:33	1	
CAL	50	0520_06	05/20/19 08:46	1	
CAL	20	0520_07	05/20/19 08:58	1	
CAL	10	0520_08	05/20/19 09:11	1	
CAL	5	0520_09	05/20/19 09:23	1	
CAL	1221	0520_10	05/20/19 09:36	1	
CAL	1232	0520_11	05/20/19 09:48	1	
CAL	1242	0520_12	05/20/19 10:01	1	
CAL	1248	0520_13	05/20/19 10:13	1	
CAL	1254	0520_14	05/20/19 10:25	1	
CAL	1262	0520_15	05/20/19 10:38	1	
CAL	1268	0520_16	05/20/19 10:50	1	
SSCV	SVGC280520190520_30-1472277	0520_30-1	05/20/19 16:17	1	
ICV	SVGC28052119a0521a_07-1472277	0521a_07-1	05/21/19 16:58	5	
BLANK	R3413779-1	0521a_09	05/21/19 17:23	1	WG1283994
LCS	R3413779-2	0521a_10	05/21/19 17:35	1	WG1283994
WW-20190515-002-DAY 13	L1099840-01	0521a_12	05/21/19 18:00	1.08	WG1283994
OS	L1100207-06	0521a_22	05/21/19 20:04	1	WG1283994
MS	R3413779-3	0521a_23	05/21/19 20:17	1	WG1283994
MSD	R3413779-4	0521a_24	05/21/19 20:29	1	WG1283994

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413779-1

Lab Sample ID:	R3413779-1	**SDG:**	L1099840
Client Sample ID:	BLANK	**Collected Date/Time:**	_____
Lab File ID:	0521a_09	**Received Date/Time:**	_____
Instrument ID:	SVGC28	**Preparation Date/Time:**	05/21/19 07:40
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 17:23
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA-608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
PCB 1260	11096-82-5	0	U		0.000120	0.0005	0.000500
PCB 1016	12674-11-2	0	U		0.000100	0.0005	0.000500
PCB 1221	11104-28-2	0	U		0.0000730	0.0005	0.000500
PCB 1232	11141-16-5	0	U		0.0000420	0.0005	0.000500
PCB 1242	53469-21-9	0	U		0.0000470	0.0005	0.000500
PCB 1248	12672-29-6	0	U		0.0000860	0.0005	0.000500
PCB 1254	11097-69-1	0	U		0.0000470	0.0005	0.000500
Total PCBs	1336-36-3	0	U		0.0000420	0.0005	0.000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413779-2

Lab Sample ID:	R3413779-2	**SDG:**	L1099840
Client Sample ID:	LCS	**Collected Date/Time:**	_____
Lab File ID:	0521a_10	**Received Date/Time:**	_____
Instrument ID:	SVGC28	**Preparation Date/Time:**	05/21/19 07:40
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 17:35
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA-608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
PCB 1260	11096-82-5	6.889999	0.00231		0.0000146	0.0005	0.000500
PCB 1016	12674-11-2	4.8880	0.00232		0.0000198	0.0005	0.000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413779-3

Lab Sample ID:	R3413779-3	**SDG:**	L1099840
Client Sample ID:	MS	**Collected Date/Time:**	05/15/19 07:48
Lab File ID:	0521a_23	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	SVGC28	**Preparation Date/Time:**	05/21/19 07:42
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 20:17
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA-608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
PCB 1260	11096-82-5	6.8860	0.00247		0.0000146	0.0005	0.000500
PCB 1016	12674-11-2	4.88	0.00282		0.0000198	0.0005	0.000500

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3413779-4

Lab Sample ID:	R3413779-4	**SDG:**	L1099840
Client Sample ID:	MSD	**Collected Date/Time:**	05/15/19 07:48
Lab File ID:	0521a_24	**Received Date/Time:**	05/17/19 08:45
Instrument ID:	SVGC28	**Preparation Date/Time:**	05/21/19 07:42
Analytical Batch:	WG1283994	**Analysis Date/Time:**	05/21/19 20:29
Dilution Factor:	1	**Prep Method:**	3510C
Analytical Method:	EPA-608.3	**Sample Vol Used:**	_____
Matrix:	WW	**Initial Wt/Vol:**	100 mL
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	SDL	Unadj. MQL	MQL
			mg/l		*mg/l*	*mg/l*	*mg/l*
PCB 1260	11096-82-5	6.8860	0.00248		0.0000146	0.0005	0.000500
PCB 1016	12674-11-2	4.8820	0.00288		0.0000198	0.0005	0.000500

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Su
7 Gl
8 Al
9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MQL	Method Quantitation Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

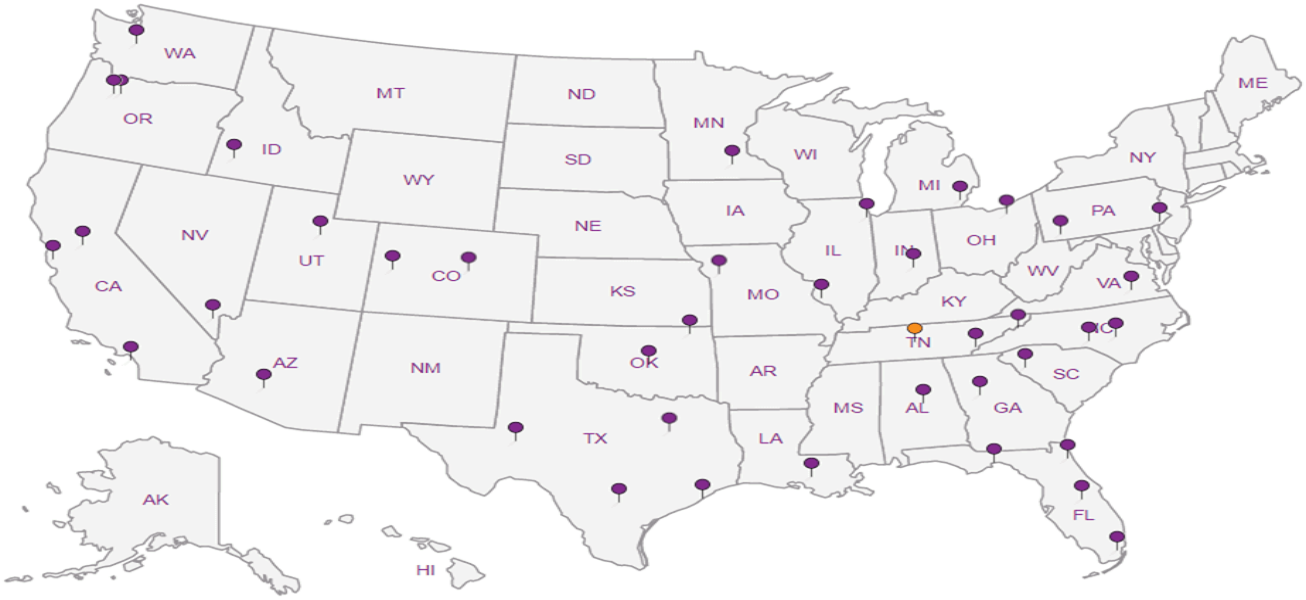
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Cardno - Newark, DE

121 Continental Drive Suite 308
Newark, DE 19713

Billing Information:
Accounts Payable
121 Continental Drive Suite 308
Newark, DE 19713

Report to: Art Saunders
Email To: Art.Saunders@cardno.com

Project Description: Deer Park Fire
City/State Collected:

Phone: 610-220-3957
Fax:
Client Project #
Lab Project # CARDNONDE-ITC

Collected by (print): Stephanie Healey
Site/Facility ID #
P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X
Rush? (Lab MUST Be Notified) ___ Same Day ___ Five Day X Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day
Quote #
Date Results Needed

Chain of Custody Page 1 of 2

Pace Analytical® National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1099840
D188
Acctnum: CARDNONDE
Template: T150425
Prelogin: P709319
TSR: 034 - Craig Cothron
PB:
Shipped Via: FedEx Ground

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	SULFIDE 125mlAmb-S-NaOH+ZnAc	SV1657 1L-Amb-No Pres	SV504 40mlAmb-NoPres-WT	SV8151 1L-Amb-No Pres	TDS 250mlHDPE-NoPres	TOC 250mlAmb-HCl	TSS 1L-HDPE-NoPres	Total Cyanide 250mlHDPEAmb-NaOH	V624.1AP9 40mlAmb-HCl		Remarks	Sample # (lab only)
						Pres Chk	>12					<2		>12				
		~~DW~~				~~27~~	X	X	X	X	X	X	X		X			
		~~WW~~				~~2~~								X				
		~~GW~~				~~4~~												
		~~GW~~				~~1~~												
WW-20190515-002-Day13 Comp		WW	-	5/15/19	1130	~~6~~ 34	X	X	X	X	X	X	X	~~X~~ X	X			01
WW 20190515 002 Day13 Grab		WW		5/15/19	1130	~~1~~ 2 on								X				02

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: *NOTE - composite 4 vials for V624.1AP9, SV504EDB/DBCP, and ETHGLY before running* *other* container for HG 245.7 is 500ml glass w/HCL

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier & SWA
Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: ✓ NP __ Y __ N
COC Signed/Accurate: ✓ Y __ N
Bottles arrive intact: ✓ Y __ N
Correct bottles used: ✓ Y __ N
Sufficient volume sent: ✓ Y __ N
If Applicable
VOA Zero Headspace: ✓ Y __ N
Preservation Correct/Checked: ✓ Y __ N
RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	5/16/19	15:40			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: A3 BF °C 1.2±0=1.2	Bottles Received: 36
	5/16/19	19:00			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:
				5/17/19	8:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Cardno - Newark, DE

121 Continental Drive Suite 308
Newark, DE 19713

Billing Information:
Accounts Payable
121 Continental Drive Suite 308
Newark, DE 19713

Report to: Art Saunders
Email To: Art.Saunders@cardno.com

Project Description: Deer Park Fire
City/State Collected:

Phone: 610-220-3957
Fax:

Client Project #
Lab Project # CARDNONDE-ITC

Collected by (print): Stephanie Healey
Site/Facility ID #
P.O. #

Collected by (signature):
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
X Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #
Date Results Needed

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	1613/DIOXIN/FURANS 1L-Amb-NoPres	608.3 100ml Amb-NoPres	625.1AP9 100ml Amb NoPres	CHLORIDE 250mlHDPE-NoPres	COD,NH3,PT,TKN,NORG 250mlHDPE-H2SO4	ETHGLY 40mlAmb-NoPres-WT	HG 245.7 Other	Metals 250mlHDPE-HNO3	OGHEX 1L-Clr-Add HCl	PFOS 250mlHDPE-NoPres	Remarks	Sample # (lab only)
		DW				27		X	X	X	X	X		X				
		WW				2									X			
		GW				4	X									X		
		GW				1							X					
WW-20190515-002 Day 13 Comp		WW	-	5/15/19	1130	~~[illegible]~~												
~~WW 29905~~						34	X	X	X	X	X	X	X	X		X		01
WW 20190515 002 Day 13 Grab		WW		5/15/19	1130	+ 2									X			02
						Cm												

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks: *NOTE - composite 4 vials for V624.1AP9, SV504EDB/DBCP, and ETHGLY before running* *other* container for HG 245.7 is 500ml glass w/HCL

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier ✓ SWA
Tracking #

Relinquished by : (Signature)	Date: 5/16/19	Time: 15:40	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Relinquished by : (Signature)	Date: 5/16/19	Time: 19:00	Received by: (Signature)	Temp: A3BF °C 1.2±0=1.2	Bottles Received: 36	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/17/19	Time: 8:00	Hold:	Condition: NCF / OK

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N
RAD SCREEN: <0.5 mR/hr

Pace Analytical®
National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1099840
Table #
Acctnum: CARDNONDE
Template: T150425
Prelogin: P709319
TSR: 034 - Craig Cothron
PB:
Shipped Via: FedEx Ground