



March 1, 2013

Analytical Report for Service Request No: K1301288

Craig Schwyn
Schwyn Environmental Services
4621 South Custer Court
Spokane, WA 99223

RE: City of Walla Walla Sudbury Road Landfill RI

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on February 13, 2013. For your reference, these analyses have been assigned our service request number K1301288.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3293. You may also contact me via Email at Shar.Samy@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Shar Samy
Project Manager

SS/mj

Page 1 of 109



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Columbia Analytical Services, Inc.

Part of the ALS Group A Campbell Brothers Limited Company

Environmental

www.caslab.com ■ www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**Columbia Analytical Services, Inc. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2286
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L12-28
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Georgia DNR	http://www.gaepd.org/Documents/techguide_pcb.html#cel	881
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
Indiana DOH	http://www.in.gov/isdh/24859.htm	C-WA-01
ISO 17025	http://www.pjlabs.com/	L12-27
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	3016
Louisiana DHH	Not available	LA110003
Maine DHS	Not available	WA0035
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-368
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA35
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
New Mexico ED	http://www.nmenv.state.nm.us/dwb/Index.htm	-
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA200001
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	4704427-08-TX
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C1203
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.caslab.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.caslab.com or at the accreditation bodies web site

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

ALS ENVIRONMENTAL

Client: Schwyn Environmental Services **Service Request No.:** K1301288
Project: City of Walla Walla Sudbury Road Landfill RI **Date Received:** 02/13/13
Sample Matrix: Water

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Fourteen water samples were received for analysis at ALS Environmental on 02/13/13. The samples were received in good condition and consistent with the accompanying chain of custody form, except where noted on the cooler receipt and preservation form included in this report. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Total Organic Carbon by Standard Method 5310 C:

The Relative Percent Difference (RPD) criterion for the replicate analysis of Total Organic Carbon in samples D 27 and MW-22S were not applicable because the analyte concentration was not significantly greater than the Method Reporting Limit (MRL). Analytical values derived from measurements close to the detection limit are not subject to the same accuracy and precision criteria as results derived from measurements higher on the calibration range for the method.

No other anomalies associated with the analysis of these samples were observed.

Dissolved Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Calcium and Magnesium for sample MW-23 were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260

Calibration Verification Exceptions:

The following analyte was flagged as outside the control criterion for Continuing Calibration Verification (CCV) J:\MS18\0214F004.D: Chloromethane and Iodomethane. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

Approved by _____

Lab Control Sample Exceptions:

The advisory criterion was exceeded for Chloromethane in Laboratory Control Sample (LCS) KWG1301397-3. As per the CAS/Kelso Standard Operating Procedure (SOP) for this method, these compounds are not included in the subset of analytes used to control the analysis. The recovery information reported for these analytes is for advisory purposes only (i.e. to provide additional detail related to the performance of each individual compound). No further corrective action was required.

No other anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260-SIM

Calibration Verification Exceptions:

The following analytes were flagged as outside the control criterion for Continuing Calibration Verification (CCV) J:\MS18\0221F006.D: 4-Bromofluorobenzene. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

No other anomalies associated with the analysis of these samples were observed.

Approved by _____




PC Shar

Cooler Receipt and Preservation Form

Client / Project: City of Walla Walla Service Request K13 01288

Received: 2/13/13 Opened: 2/13/13 By: BT Unloaded: 2/13/13 By: BT

- 1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Temp	Corr. Temp	Raw Blank	Corr. Blank	Corr. Factor	Thermometer ID	Cooler/COC ID <u>NA</u>	Tracking Number <u>NA</u>	Filed
0.3	0.4	-	-	+0.1	314		123399W82210000276	
0.6	0.2	0.0	0.4	-0.4	321		02167	
0.7	0.9	1.2	1.4	+0.2	300		0229	

- 7. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
- 8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 9. Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA Y N
- 10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
- 11. Did all sample labels and tags agree with custody papers? Indicate major discrepancies in the table on page 2. NA Y N
- 12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 13. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
- 14. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:
<u>MW 21D</u>	<u>MW -22D</u>	<u>process of elimination/time</u>

Sample ID	Bottle Count Bottle Type	Out of Temp	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time
<u>MW 20</u>	<u>1x40ml</u>			<u>X</u>						

SHORT HOLD TIME

Notes, Discrepancies, & Resolutions: _____

CHAIN of CUSTODY



800.695.7222
www.caslab.com

Client: Schwyn Environmental Services
4621 South Custer Court
Spokane, WA 99223

Bill To: Schwyn Enviro. Svcs.
Telephone No.
509-448-3187

Method of Shipment
3 coolers
UPS

Project:
City of Walla Walla Sudbury Road Landfill Remedial Investigation

Special Detection
Limit/Reporting

Tier II plus EDD

Sample I.D.	Date	Time	Matrix	VOC's (8260B special List)	Vinyl Chloride by 8260 SIM	Cl, NO3, SO4 by 300.0	ALK by Method 2320B	Ammonia by SM4500	TOC by Method 415.1	TDS by Method SM 2540C	Dissolved Ca, Fe, Mg, Mn, K, Na by 6010C	MS/MSD					
1 MW-24	2/11/13	1300	Water	X	X	X	X	X	X	X	X						
2 MW-23		1345		X	X	X	X	X	X	X	X	X					
3 D27		1415		X	X	X	X	X	X	X	X						
4 MW-27		1430		X	X	X	X	X	X	X	X						
5 MW-19		1515		X	X	X	X	X	X	X	X						
6 MW-20		1600		X	X	X	X	X	X	X	X						
7 MW-3		1620		X	X	X	X	X	X	X	X						
8 MW-15D	↓	1700		X	X	X	X	X	X	X	X						
9 MW-22S	2/12/13	800		X	X	X	X	X	X	X	X						
10 MW-22D		830		X	X	X	X	X	X	X	X						
11 MW-21S		930		X	X	X	X	X	X	X	X						
12 MW-22D		1000		X	X	X	X	X	X	X	X						
13 MW-18	↓	1030	↓	X	X	X	X	X	X	X	X						

REMARKS
SHORT
HOLD

Sample Received Intact: Yes No

Temperature received:

Lab Work No.

Relinq. by sampler (Sign & Print Name)

Date Time

Received by (Sign & Print Name)

Craig Schwyn *Craig Schwyn*

2/12/13 12:00

Buffy B. Tobin

2/13/13 1030

Relinquished by

Date Time

Received by laboratory Time

K1301288

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301288
Date Collected: 02/11/13 - 02/12/13
Date Received: 02/13/13

Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-24	K1301288-001	115	4.0	20	02/13/13 12:10	
MW-23	K1301288-002	98.8	4.0	20	02/13/13 11:54	
D 27	K1301288-003	121	4.0	20	02/13/13 12:25	
MW-27	K1301288-004	122	4.0	20	02/13/13 12:41	
MW-19	K1301288-005	125	4.0	20	02/13/13 12:57	
MW-20	K1301288-006	141	4.0	20	02/13/13 13:12	
MW-3	K1301288-007	130	4.0	20	02/13/13 14:00	
MW-15D	K1301288-008	124	4.0	20	02/13/13 14:15	
MW-22S	K1301288-009	147	4.0	20	02/13/13 14:31	
MW-22D	K1301288-010	148	4.0	20	02/13/13 14:47	
MW-21S	K1301288-011	135	4.0	20	02/13/13 15:02	
MW-21D	K1301288-012	144	4.0	20	02/13/13 15:18	
MW-18	K1301288-013	145	4.0	20	02/13/13 15:34	
Method Blank	K1301288-MB1	ND U	0.20	1	02/13/13 07:28	
Method Blank	K1301288-MB2	ND U	0.20	1	02/13/13 21:53	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301288
Date Collected: 02/11/13
Date Received: 02/13/13

Units: mg/L
Basis: NA

Duplicate Sample Summary
Chloride

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-24	K1301288-001DUP	4.0	115	118	116	3	20	02/14/13
MW-23	K1301288-002DUP	4.0	98.8	98.4	98.6	<1	20	02/14/13

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/13
Date Received: 02/13/13
Date Analyzed: 02/14/13

**Duplicate Matrix Spike Summary
Chloride**

Sample Name: MW-24
Lab Code: K1301288-001
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301288-001MS		Duplicate Matrix Spike K1301288-001DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	115	214	100	99	214	100	99	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/13
Date Received: 02/13/13
Date Analyzed: 02/14/13

**Duplicate Matrix Spike Summary
Chloride**

Sample Name: MW-23
Lab Code: K1301288-002
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301288-002MS		Duplicate Matrix Spike K1301288-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	98.8	197	100	98	198	100	100	90-110	<1	20

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301288
Date Analyzed:02/13/13 - 02/14/13

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method: 300.0

Units:mg/L

Basis:NA

Analysis Lot:329056

Lab Control Sample
K1301288-LCS1

Duplicate Lab Control Sample
K1301288-DLCS1

<u>Analyte Name</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
Chloride	4.77	5.00	95	4.68	5.00	94	90-110	2	20

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301288
Date Collected: 02/11/13 - 02/12/13
Date Received: 02/13/13

Units: mg/L
Basis: NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-24	K1301288-001	10.1	1.0	20	02/13/13 12:10	
MW-23	K1301288-002	10.6	1.0	20	02/13/13 11:54	
D 27	K1301288-003	10.1	1.0	20	02/13/13 12:25	
MW-27	K1301288-004	10.2	1.0	20	02/13/13 12:41	
MW-19	K1301288-005	9.4	1.0	20	02/13/13 12:57	
MW-20	K1301288-006	10.0	1.0	20	02/13/13 13:12	
MW-3	K1301288-007	9.8	1.0	20	02/13/13 14:00	
MW-15D	K1301288-008	10.4	1.0	20	02/13/13 14:15	
MW-22S	K1301288-009	9.1	1.0	20	02/13/13 14:31	
MW-22D	K1301288-010	10.1	1.0	20	02/13/13 14:47	
MW-21S	K1301288-011	9.9	1.0	20	02/13/13 15:02	
MW-21D	K1301288-012	10.3	1.0	20	02/13/13 15:18	
MW-18	K1301288-013	9.4	1.0	20	02/13/13 15:34	
Method Blank	K1301288-MB1	ND U	0.050	1	02/13/13 07:28	
Method Blank	K1301288-MB2	ND U	0.050	1	02/13/13 21:53	

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301288
Date Collected: 02/11/13
Date Received: 02/13/13

Units: mg/L
Basis: NA

Duplicate Sample Summary

Nitrate as Nitrogen

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-24	K1301288-001DUP	1.0	10.1	10.4	10.2	2	20	02/14/13
MW-23	K1301288-002DUP	1.0	10.6	10.6	10.6	<1	20	02/14/13

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/13
Date Received: 02/13/13
Date Analyzed: 02/14/13

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: MW-24
Lab Code: K1301288-001
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301288-001MS		Result	Duplicate Matrix Spike K1301288-001DMS		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Nitrate as Nitrogen	10.1	112	100	102	113	100	103	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301288
Date Collected:02/11/13
Date Received:02/13/13
Date Analyzed:02/14/13

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: MW-23
Lab Code: K1301288-002
Analysis Method: 300.0

Units:mg/L
Basis:NA

Analyte Name	Sample Result	Result	Matrix Spike K1301288-002MS		Duplicate Matrix Spike K1301288-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	10.6	115	100	104	115	100	104	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301288
Date Analyzed:02/13/13 - 02/14/13

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method: 300.0

Units:mg/L

Basis:NA

Analysis Lot:329056

Lab Control Sample
K1301288-LCS1

Duplicate Lab Control Sample
K1301288-DLCS1

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Nitrate as Nitrogen	18.8	17.7	106	18.8	17.7	106	90-110	<1	20

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301288
Date Collected: 02/11/13 - 02/12/13
Date Received: 02/13/13

Units: mg/L
Basis: NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-24	K1301288-001	30.0	2.0	20	02/13/13 12:10	
MW-23	K1301288-002	30.0	2.0	20	02/13/13 11:54	
D 27	K1301288-003	29.1	2.0	20	02/13/13 12:25	
MW-27	K1301288-004	29.5	2.0	20	02/13/13 12:41	
MW-19	K1301288-005	39.3	2.0	20	02/13/13 12:57	
MW-20	K1301288-006	32.3	2.0	20	02/13/13 13:12	
MW-3	K1301288-007	30.7	2.0	20	02/13/13 14:00	
MW-15D	K1301288-008	29.4	2.0	20	02/13/13 14:15	
MW-22S	K1301288-009	33.2	2.0	20	02/13/13 14:31	
MW-22D	K1301288-010	31.9	2.0	20	02/13/13 14:47	
MW-21S	K1301288-011	31.9	2.0	20	02/13/13 15:02	
MW-21D	K1301288-012	30.7	2.0	20	02/13/13 15:18	
MW-18	K1301288-013	32.3	2.0	20	02/13/13 15:34	
Method Blank	K1301288-MB1	ND U	0.10	1	02/13/13 07:28	
Method Blank	K1301288-MB2	ND U	0.10	1	02/13/13 21:53	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301288

Date Collected: 02/11/13

Date Received: 02/13/13

Units: mg/L

Basis: NA

Duplicate Sample Summary

Sulfate

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-24	K1301288-001DUP	2.0	30.0	30.5	30.2	2	20	02/14/13
MW-23	K1301288-002DUP	2.0	30.0	30.3	30.1	1	20	02/14/13

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/13
Date Received: 02/13/13
Date Analyzed: 02/14/13

**Duplicate Matrix Spike Summary
Sulfate**

Sample Name: MW-24
Lab Code: K1301288-001
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301288-001MS		Duplicate Matrix Spike K1301288-001DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	30.0	128	100	98	128	100	98	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/13
Date Received: 02/13/13
Date Analyzed: 02/14/13

**Duplicate Matrix Spike Summary
Sulfate**

Sample Name: MW-23
Lab Code: K1301288-002
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301288-002MS		Duplicate Matrix Spike K1301288-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	30.0	129	100	99	130	100	100	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301288
Date Analyzed:02/13/13 - 02/14/13

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method: 300.0

Units:mg/L

Basis:NA

Analysis Lot:329056

Lab Control Sample
K1301288-LCS1

Duplicate Lab Control Sample
K1301288-DLCS1

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Sulfate	4.73	5.00	95	4.67	5.00	93	90-110	1	20

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 2320 B

Service Request: K1301288
Date Collected: 02/11/13 - 02/12/13
Date Received: 02/13/13

Units: mg/L
Basis: NA

Alkalinity as CaCO₃, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-24	K1301288-001	292	9.0	1	02/15/13 16:06	
MW-23	K1301288-002	304	9.0	1	02/15/13 16:06	
D 27	K1301288-003	306	9.0	1	02/15/13 16:06	
MW-27	K1301288-004	295	9.0	1	02/15/13 16:06	
MW-19	K1301288-005	342	9.0	1	02/15/13 16:06	
MW-20	K1301288-006	325	9.0	1	02/15/13 16:06	
MW-3	K1301288-007	258	9.0	1	02/15/13 16:06	
MW-15D	K1301288-008	326	9.0	1	02/15/13 16:06	
MW-22S	K1301288-009	328	9.0	1	02/15/13 16:06	
MW-22D	K1301288-010	313	9.0	1	02/15/13 16:06	
MW-21S	K1301288-011	308	9.0	1	02/15/13 16:06	
MW-21D	K1301288-012	308	9.0	1	02/15/13 16:06	
MW-18	K1301288-013	336	9.0	1	02/15/13 16:06	
Method Blank	K1301288-MB1	ND U	9.0	1	02/15/13 16:06	
Method Blank	K1301288-MB2	10.4	9.0	1	02/15/13 16:06	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/13
Date Received: 02/13/13
Date Analyzed: 02/15/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-23
Lab Code: K1301288-002

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1301288-002DUP Result	Average	RPD	RPD Limit
Alkalinity as CaCO3, Total	SM 2320 B	9.0	304	301	303	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301288

Date Analyzed:02/15/13

Lab Control Sample Summary
Alkalinity as CaCO₃, Total

Analysis Method: SM 2320 B

Units:mg/L

Basis:NA

Analysis Lot:329414

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301288-LCS2	126	122	103	90-110
Lab Control Sample	K1301288-LCS3	125	122	102	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 2540 C

Service Request: K1301288
Date Collected: 02/11/13 - 02/12/13
Date Received: 02/13/13

Units: mg/L
Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-24	K1301288-001	563	13	1	02/18/13 11:30	
MW-23	K1301288-002	596	13	1	02/18/13 11:30	
D 27	K1301288-003	519	13	1	02/18/13 11:30	
MW-27	K1301288-004	671	13	1	02/18/13 11:30	
MW-19	K1301288-005	672	13	1	02/18/13 11:30	
MW-20	K1301288-006	683	13	1	02/18/13 11:30	
MW-3	K1301288-007	553	13	1	02/18/13 11:30	
MW-15D	K1301288-008	621	13	1	02/18/13 11:30	
MW-22S	K1301288-009	636	13	1	02/18/13 11:30	
MW-22D	K1301288-010	671	13	1	02/18/13 11:30	
MW-21S	K1301288-011	613	13	1	02/18/13 11:30	
MW-21D	K1301288-012	608	13	1	02/18/13 11:30	
MW-18	K1301288-013	704	13	1	02/18/13 11:30	
Method Blank	K1301288-MB1	ND U	5.0	1	02/18/13 11:30	
Method Blank	K1301288-MB2	ND U	5.0	1	02/18/13 11:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/13
Date Received: 02/13/13
Date Analyzed: 02/18/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-23
Lab Code: K1301288-002

Units: mg/L
Basis: NA

Table with 8 columns: Analyte Name, Analysis Method, MRL, Sample Result, Duplicate Sample Result (K1301288-002DUP), Average, RPD, RPD Limit. Row 1: Solids, Total Dissolved, SM 2540 C, 13, 596, 609, 603, 2, 10.

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301288
Date Analyzed:02/18/13

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units:mg/L

Basis:NA

Analysis Lot:329545

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301288-LCS2	1860	1810	103	90-108

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 4500-NH3 E

Service Request: K1301288
Date Collected: 02/11/13 - 02/12/13
Date Received: 02/13/13

Units: mg/L
Basis: NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-24	K1301288-001	ND U	0.050	1	02/20/13 03:15	
MW-23	K1301288-002	ND U	0.050	1	02/20/13 03:15	
D 27	K1301288-003	ND U	0.050	1	02/20/13 03:15	
MW-27	K1301288-004	ND U	0.050	1	02/20/13 03:15	
MW-19	K1301288-005	ND U	0.050	1	02/20/13 03:15	
MW-20	K1301288-006	ND U	0.050	1	02/20/13 03:15	
MW-3	K1301288-007	ND U	0.050	1	02/20/13 03:15	
MW-15D	K1301288-008	ND U	0.050	1	02/20/13 03:15	
MW-22S	K1301288-009	ND U	0.050	1	02/20/13 03:15	
MW-22D	K1301288-010	ND U	0.050	1	02/20/13 03:15	
MW-21S	K1301288-011	ND U	0.050	1	02/20/13 03:15	
MW-21D	K1301288-012	ND U	0.050	1	02/20/13 03:15	
MW-18	K1301288-013	ND U	0.050	1	02/20/13 03:15	
Method Blank	K1301288-MB1	ND U	0.050	1	02/20/13 03:15	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/13
Date Received: 02/13/13
Date Analyzed: 02/20/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-23
Lab Code: K1301288-002

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1301288-002DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Ammonia as Nitrogen	SM 4500-NH3 E	0.050	ND	ND	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301288
Date Collected:02/11/13
Date Received:02/13/13
Date Analyzed:02/20/13

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-23
Lab Code: K1301288-002
Analysis Method: SM 4500-NH3 E

Units:mg/L
Basis:NA

Matrix Spike
K1301288-002MS

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	ND	10.4	10.0	104	80-115

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301288

Date Analyzed:02/20/13

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: SM 4500-NH3 E

Units:mg/L

Basis:NA

Analysis Lot:329337

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301288-LCS2	10.3	10.9	94	80-115

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1301288
Date Collected: 02/11/13 - 02/12/13
Date Received: 02/13/13

Units: mg/L
Basis: NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-24	K1301288-001	0.66	0.50	1	02/15/13 20:42	
MW-23	K1301288-002	0.72	0.50	1	02/15/13 20:42	
D 27	K1301288-003	0.86	0.50	1	02/15/13 20:42	
MW-27	K1301288-004	0.72	0.50	1	02/15/13 20:42	
MW-19	K1301288-005	0.79	0.50	1	02/15/13 20:42	
MW-20	K1301288-006	0.68	0.50	1	02/15/13 20:42	
MW-3	K1301288-007	0.57	0.50	1	02/15/13 20:42	
MW-15D	K1301288-008	0.64	0.50	1	02/15/13 20:42	
MW-22S	K1301288-009	0.65	0.50	1	02/15/13 20:42	
MW-22D	K1301288-010	0.64	0.50	1	02/15/13 20:42	
MW-21S	K1301288-011	0.63	0.50	1	02/15/13 20:42	
MW-21D	K1301288-012	0.64	0.50	1	02/15/13 20:42	
MW-18	K1301288-013	0.62	0.50	1	02/15/13 20:42	
Method Blank	K1301288-MB1	ND U	0.50	1	02/15/13 20:42	
Method Blank	K1301288-MB2	ND U	0.50	1	02/15/13 20:42	
Method Blank	K1301288-MB3	ND U	0.50	1	02/15/13 20:42	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1301288
Date Collected: 02/11/13 - 02/12/13
Date Received: 02/13/13

Units: mg/L
Basis: NA

Duplicate Sample Summary
Carbon, Total Organic

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-24	K1301288-001DUP	0.50	0.66	0.70	0.683	6	10	02/15/13
MW-23	K1301288-002DUP	0.50	0.72	0.66	0.688	9	10	02/15/13
D 27	K1301288-003DUP	0.50	0.86	0.74	0.798	15 *	10	02/15/13
MW-27	K1301288-004DUP	0.50	0.72	0.68	0.699	7	10	02/15/13
MW-19	K1301288-005DUP	0.50	0.79	0.75	0.772	5	10	02/15/13
MW-20	K1301288-006DUP	0.50	0.68	0.69	0.686	1	10	02/15/13
MW-3	K1301288-007DUP	0.50	0.57	0.54	0.555	5	10	02/15/13
MW-15D	K1301288-008DUP	0.50	0.64	0.63	0.636	2	10	02/15/13
MW-22S	K1301288-009DUP	0.50	0.65	0.58	0.616	11 *	10	02/15/13
MW-22D	K1301288-010DUP	0.50	0.64	0.65	0.645	<1	10	02/15/13
MW-21S	K1301288-011DUP	0.50	0.63	0.65	0.640	4	10	02/15/13
MW-21D	K1301288-012DUP	0.50	0.64	0.59	0.614	9	10	02/15/13
MW-18	K1301288-013DUP	0.50	0.62	0.58	0.596	7	10	02/15/13

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301288
Date Collected:02/11/13
Date Received:02/13/13
Date Analyzed:02/15/13

Matrix Spike Summary
Carbon, Total Organic

Sample Name: MW-23
Lab Code: K1301288-002
Analysis Method: SM 5310 C

Units:mg/L
Basis:NA

Matrix Spike
K1301288-002MS

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic	0.72	26.5	25.0	103	83-117

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: N/A
Date Received: N/A
Date Analyzed: 02/15/13

**Duplicate Matrix Spike Summary
 Carbon, Total Organic**

Sample Name: Batch QC
Lab Code: K1301344-005
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301344-005MS		Duplicate Matrix Spike K1301344-005DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Carbon, Total Organic	1.56	27.7	25.0	105	27.6	25.0	104	83-117	<1	10

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: N/A
Date Received: N/A
Date Analyzed: 02/15/13

**Duplicate Matrix Spike Summary
 Carbon, Total Organic**

Sample Name: Batch QC
Lab Code: K1301344-011
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301344-011MS		Duplicate Matrix Spike K1301344-011DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Carbon, Total Organic	2.31	29.1	25.0	107	28.7	25.0	106	83-117	1	10

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301288
Date Analyzed:02/15/13

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method: SM 5310 C

Units:mg/L

Basis:NA

Analysis Lot:329425

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301288-LCS2	23.2	22.7	102	83-117
Lab Control Sample	K1301288-LCS3	23.2	22.7	102	83-117
Lab Control Sample	K1301288-LCS4	23.0	22.7	101	83-117

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- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services
Project Name: City of Walla Walla Sudbury Road Landfill RI
Project No.:

Service Request: K1301288

<u>Sample Name:</u>	<u>Lab Code:</u>
MW-24	K1301288-001DISS
MW-23	K1301288-002DISS
MW-23D	K1301288-002DISSD
MW-23S	K1301288-002DISSS
D 27	K1301288-003DISS
MW-27	K1301288-004DISS
MW-19	K1301288-005DISS
MW-20	K1301288-006DISS
MW-3	K1301288-007DISS
MW-15D	K1301288-008DISS
MW-22S	K1301288-009DISS
MW-22D	K1301288-010DISS
MW-21S	K1301288-011DISS
MW-21D	K1301288-012DISS
MW-18	K1301288-013DISS
Method Blank	K1301288-MB

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/11/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-24 **Lab Code:** K1301288-001DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	103000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	42400		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	7270		
Sodium	6010C	200	1.0	02/18/13	02/22/13	25200		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/11/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-23 **Lab Code:** K1301288-002DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	110000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	44900		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	7500		
Sodium	6010C	200	1.0	02/18/13	02/22/13	25600		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/11/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: D 27

Lab Code: K1301288-003DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	114000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	48400		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	8090		
Sodium	6010C	200	1.0	02/18/13	02/22/13	28100		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/11/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-27 **Lab Code:** K1301288-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	111000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	47700		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	7930		
Sodium	6010C	200	1.0	02/18/13	02/22/13	27800		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/11/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-19 **Lab Code:** K1301288-005DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	127000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	53700		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	7740		
Sodium	6010C	200	1.0	02/18/13	02/22/13	22400		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/11/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-20 **Lab Code:** K1301288-006DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	123000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	52800		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	8230		
Sodium	6010C	200	1.0	02/18/13	02/22/13	28000		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/11/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-3 **Lab Code:** K1301288-007DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	106000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	49400		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	7250		
Sodium	6010C	200	1.0	02/18/13	02/22/13	17700		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/11/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-15D **Lab Code:** K1301288-008DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	113000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	51500		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	7680		
Sodium	6010C	200	1.0	02/18/13	02/22/13	19800		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/12/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-22S **Lab Code:** K1301288-009DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	121000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	54500		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	8370		
Sodium	6010C	200	1.0	02/18/13	02/22/13	27100		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/12/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-22D **Lab Code:** K1301288-010DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	121000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	54600		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	8.9		
Potassium	6010C	400	1.0	02/18/13	02/22/13	7830		
Sodium	6010C	200	1.0	02/18/13	02/22/13	19700		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/12/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-21S **Lab Code:** K1301288-011DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	118000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	49600		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	10.5		
Potassium	6010C	400	1.0	02/18/13	02/22/13	7850		
Sodium	6010C	200	1.0	02/18/13	02/22/13	26300		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/12/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
 Basis: NA

Sample Name: MW-21D **Lab Code:** K1301288-012DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	120000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	54100		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	7910		
Sodium	6010C	200	1.0	02/18/13	02/22/13	20100		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:** 02/12/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/13/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-18 **Lab Code:** K1301288-013DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	125000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	54100		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	8590		
Sodium	6010C	200	1.0	02/18/13	02/22/13	30800		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Date Collected:**
Project Name: City of Walla Walla Sudbury Roa **Date Received:**
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: Method Blank **Lab Code:** K1301288-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	50.0	U	
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	400	U	
Sodium	6010C	200	1.0	02/18/13	02/22/13	200	U	

Comments:

Metals
 - 5A -
SPIKE SAMPLE RECOVERY

Client: Schwyn Environmental Services **Service Request:** K1301288
Project No.: NA **Units:** UG/L
Project Name: City of Walla Walla Sudbury Roa **Basis:** NA
Matrix: WATER

Sample Name: MW-23S

Lab Code: K1301288-002DISSS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Calcium		120000		110000		10000.00	100.0		6010C
Iron	75 - 125	1010		20.0	U	1000.00	101.0		6010C
Magnesium		56900		44900		10000.00	120.0		6010C
Manganese	84 - 121	487		5.0	U	500.00	97.4		6010C
Potassium	75 - 125	18300		7500		10000.00	108.0		6010C
Sodium	75 - 125	37300		25600		10000.00	117.0		6010C

An empty field in the Control Limit column indicates the control limit is not applicable

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Metals

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DUPLICATES**Client:** Schwyn Environmental Services**Service Request:** K1301288**Project No.:** NA**Units:** UG/L**Project Name:** City of Walla Walla Sudbury Roa**Basis:** NA**Matrix:** WATER**Sample Name:** MW-23D**Lab Code:** K1301288-002DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	110000		109000		0.9		6010C
Iron		20.0	U	20.0	U			6010C
Magnesium	20	44900		46000		2.4		6010C
Manganese		5.0	U	5.0	U			6010C
Potassium	20	7500		7730		3.0		6010C
Sodium	20	25600		26200		2.3		6010C

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

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LABORATORY CONTROL SAMPLE

Client: Schwyn Environmental Services

Service Request: K1301288

Project No.: NA

Project Name: City of Walla Walla Sudbury Roa

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Calcium	12500	12700	101.6					
Iron	2500	2480	99.2					
Magnesium	12500	12100	96.8					
Manganese	1250	1190	95.2					
Potassium	12500	12000	96.0					
Sodium	12500	12200	97.6					

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-24
Lab Code: K1301288-001
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.71		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	0.81		0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	1.2		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-24
Lab Code: K1301288-001
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	73-122	02/14/13	Acceptable
Toluene-d8	91	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	83	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1301288-002
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.70		0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.65		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	0.70		0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	1.1		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1301288-002
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	73-122	02/14/13	Acceptable
Toluene-d8	91	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	82	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: D 27
Lab Code: K1301288-003
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.59		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	0.50		0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	0.97		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: D 27
Lab Code: K1301288-003
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	73-122	02/14/13	Acceptable
Toluene-d8	90	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	83	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-27
Lab Code: K1301288-004
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.61		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	0.52		0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	0.96		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-27
Lab Code: K1301288-004
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	73-122	02/14/13	Acceptable
Toluene-d8	90	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	83	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-19
Lab Code: K1301288-005
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	1.2		0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	1.0		0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	8.8		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.65		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	1.3		0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	1.8		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-19
Lab Code: K1301288-005
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	73-122	02/14/13	Acceptable
Toluene-d8	90	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	84	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-20
Lab Code: K1301288-006
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	0.83		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	0.53		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.65		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	1.2		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-20
Lab Code: K1301288-006
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	73-122	02/14/13	Acceptable
Toluene-d8	90	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	81	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1301288-007
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.68		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	0.92		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1301288-007
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	73-122	02/14/13	Acceptable
Toluene-d8	91	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	83	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1301288-008
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.75		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	0.58		0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	1.0		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1301288-008
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	73-122	02/14/13	Acceptable
Toluene-d8	91	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	84	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-22S
Lab Code: K1301288-009
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.62		0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	0.98		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.70		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	1.0		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-22S
Lab Code: K1301288-009
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	73-122	02/14/13	Acceptable
Toluene-d8	91	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	83	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-22D
Lab Code: K1301288-010
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	0.67		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.74		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	0.95		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-22D
Lab Code: K1301288-010
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	73-122	02/14/13	Acceptable
Toluene-d8	91	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	82	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-21S
Lab Code: K1301288-011
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.54		0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	1.0		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.68		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	0.92		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-21S
Lab Code: K1301288-011
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	73-122	02/14/13	Acceptable
Toluene-d8	91	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	83	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-21D
Lab Code: K1301288-012
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	0.56		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.73		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	0.94		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-21D
Lab Code: K1301288-012
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	73-122	02/14/13	Acceptable
Toluene-d8	92	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	83	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-18
Lab Code: K1301288-013
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.58		0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	1.1		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	0.70		0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	1.1		0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-18
Lab Code: K1301288-013
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	73-122	02/14/13	Acceptable
Toluene-d8	92	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	81	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1301288-014
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1301288-014
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	02/14/13	Acceptable
Toluene-d8	90	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	83	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1301397-4
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	*
Vinyl Chloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichlorofluoromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Acetone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Iodomethane	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	*
Carbon Disulfide	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Methylene Chloride	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Acrylonitrile	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1-Dichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Vinyl Acetate	ND	U	5.0	1	02/14/13	02/14/13	KWG1301397	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Butanone (MEK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Bromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Chloroform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Carbon Tetrachloride	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Benzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Trichloroethene (TCE)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Dibromomethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromodichloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/14/13	02/14/13	KWG1301397	
Toluene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,2-Trichloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
2-Hexanone	ND	U	20	1	02/14/13	02/14/13	KWG1301397	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1301397-4
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	
Chlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Ethylbenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
m,p-Xylenes	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
o-Xylene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Styrene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
Bromoform	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/14/13	02/14/13	KWG1301397	
1,2,3-Trichloropropane	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,4-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dichlorobenzene	ND	U	0.50	1	02/14/13	02/14/13	KWG1301397	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/14/13	02/14/13	KWG1301397	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	96	73-122	02/14/13	Acceptable
Toluene-d8	91	65-144	02/14/13	Acceptable
4-Bromofluorobenzene	83	68-117	02/14/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288

**Surrogate Recovery Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
MW-24	K1301288-001	102	91	83
MW-23	K1301288-002	104	91	82
D 27	K1301288-003	104	90	83
MW-27	K1301288-004	107	90	83
MW-19	K1301288-005	106	90	84
MW-20	K1301288-006	104	90	81
MW-3	K1301288-007	104	91	83
MW-15D	K1301288-008	106	91	84
MW-22S	K1301288-009	108	91	83
MW-22D	K1301288-010	108	91	82
MW-21S	K1301288-011	109	91	83
MW-21D	K1301288-012	108	92	83
MW-18	K1301288-013	110	92	81
Trip Blank	K1301288-014	99	90	83
Method Blank	KWG1301397-4	96	91	83
MW-23MS	KWG1301397-1	95	97	101
MW-23DMS	KWG1301397-2	95	98	100
Lab Control Sample	KWG1301397-3	97	99	100

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	73-122
Sur2 = Toluene-d8	65-144
Sur3 = 4-Bromofluorobenzene	68-117

Results flagged with an asterisk (*) indicate values outside control criteria.
 Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Extracted: 02/14/2013
Date Analyzed: 02/14/2013

**Matrix Spike/Duplicate Matrix Spike Summary
 Volatile Organic Compounds**

Sample Name: MW-23
Lab Code: K1301288-002
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1301397

Analyte Name	Sample Result	MW-23MS KWG1301397-1 Matrix Spike			MW-23DMS KWG1301397-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	9.26	10.0	93	9.11	10.0	91	49-136	2	30
1,1-Dichloroethene	ND	11.8	10.0	118	11.4	10.0	114	59-171	3	30
Chloroform	0.65	10.8	10.0	101	10.6	10.0	100	64-133	1	30
Carbon Tetrachloride	ND	9.02	10.0	90	8.76	10.0	88	53-161	3	30
Benzene	ND	9.98	10.0	100	10.0	10.0	100	63-144	1	30
Trichloroethene (TCE)	0.70	10.0	10.0	93	10.1	10.0	94	53-139	0	30
Bromodichloromethane	ND	10.2	10.0	102	10.1	10.0	101	61-134	0	30
Toluene	ND	10.2	10.0	102	10.0	10.0	100	71-136	2	30
1,1,2-Trichloroethane	ND	11.1	10.0	111	10.8	10.0	108	74-124	3	30
2-Hexanone	ND	48.0	50.0	96	46.9	50.0	94	53-132	2	30
Chlorobenzene	ND	10.2	10.0	102	9.98	10.0	100	69-126	2	30
Ethylbenzene	ND	10.5	10.0	105	10.2	10.0	102	66-136	3	30
1,2,3-Trichloropropane	ND	10.4	10.0	104	10.5	10.0	105	71-127	1	30
1,2-Dichlorobenzene	ND	10.5	10.0	105	10.3	10.0	103	72-119	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Extracted: 02/14/2013
Date Analyzed: 02/14/2013

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1301397

Lab Control Sample
 KWG1301397-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	7.66	10.0	77	32-124
Chloromethane	13.5	10.0	135 *	34-130
Vinyl Chloride	10.0	10.0	100	55-123
Bromomethane	11.3	10.0	113	35-113
Chloroethane	11.8	10.0	118	58-134
Trichlorofluoromethane	9.01	10.0	90	52-141
1,1-Dichloroethene	12.8	10.0	128	66-129
Acetone	57.6	50.0	115	68-135
Iodomethane	32.6	30.0	109	51-164
Carbon Disulfide	25.4	20.0	127	46-144
Methylene Chloride	10.7	10.0	107	71-122
Acrylonitrile	41.1	40.0	103	65-129
trans-1,2-Dichloroethene	11.3	10.0	113	67-125
1,1-Dichloroethane	10.9	10.0	109	68-132
Vinyl Acetate	49.9	50.0	100	44-156
cis-1,2-Dichloroethene	10.8	10.0	108	71-118
2-Butanone (MEK)	49.3	50.0	99	71-149
Bromochloromethane	10.9	10.0	109	75-131
Chloroform	10.7	10.0	107	70-129
1,1,1-Trichloroethane (TCA)	9.83	10.0	98	59-136
Carbon Tetrachloride	9.76	10.0	98	55-140
Benzene	10.6	10.0	106	69-124
1,2-Dichloroethane (EDC)	10.1	10.0	101	56-142
Trichloroethene (TCE)	10.1	10.0	101	67-128
1,2-Dichloropropane	11.1	10.0	111	67-126
Dibromomethane	10.1	10.0	101	69-128
Bromodichloromethane	10.5	10.0	105	63-129
cis-1,3-Dichloropropene	8.98	10.0	90	62-132
4-Methyl-2-pentanone (MIBK)	47.4	50.0	95	64-134
Toluene	10.7	10.0	107	69-124
trans-1,3-Dichloropropene	10.9	10.0	109	59-125
1,1,2-Trichloroethane	10.8	10.0	108	74-118
Tetrachloroethene (PCE)	9.89	10.0	99	62-126
2-Hexanone	47.5	50.0	95	59-131
Dibromochloromethane	9.43	10.0	94	67-126

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Extracted: 02/14/2013
Date Analyzed: 02/14/2013

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1301397

Lab Control Sample
 KWG1301397-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	10.0	10.0	100	74-118
Chlorobenzene	10.6	10.0	106	72-116
Ethylbenzene	11.1	10.0	111	67-121
1,1,1,2-Tetrachloroethane	10.0	10.0	100	66-124
m,p-Xylenes	22.6	20.0	113	69-121
o-Xylene	11.1	10.0	111	71-119
Styrene	10.9	10.0	109	74-121
Bromoform	8.62	10.0	86	52-144
cis-1,4-Dichloro-2-butene	25.2	30.0	84	26-171
1,1,2,2-Tetrachloroethane	10.7	10.0	107	70-127
trans-1,4-Dichloro-2-butene	27.3	30.0	91	46-170
1,2,3-Trichloropropane	9.84	10.0	98	69-123
1,4-Dichlorobenzene	10.4	10.0	104	73-115
1,2-Dichlorobenzene	10.5	10.0	105	72-115
1,2-Dibromo-3-chloropropane	9.34	10.0	93	55-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-24 **Units:** ng/L
Lab Code: K1301288-001 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	77-123	02/21/13	Acceptable
Toluene-d8	98	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	84	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1301288-002
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	77-123	02/21/13	Acceptable
Toluene-d8	97	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	83	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: D 27 **Units:** ng/L
Lab Code: K1301288-003 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	77-123	02/21/13	Acceptable
Toluene-d8	98	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	83	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-27 **Units:** ng/L
Lab Code: K1301288-004 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	77-123	02/21/13	Acceptable
Toluene-d8	97	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-19 **Units:** ng/L
Lab Code: K1301288-005 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	77-123	02/21/13	Acceptable
Toluene-d8	94	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	81	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-20 **Units:** ng/L
Lab Code: K1301288-006 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	77-123	02/21/13	Acceptable
Toluene-d8	96	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1301288-007
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	77-123	02/21/13	Acceptable
Toluene-d8	97	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1301288-008
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	02/21/13	Acceptable
Toluene-d8	96	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-22S **Units:** ng/L
Lab Code: K1301288-009 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	77-123	02/21/13	Acceptable
Toluene-d8	96	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	83	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-22D **Units:** ng/L
Lab Code: K1301288-010 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	02/21/13	Acceptable
Toluene-d8	96	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-21S **Units:** ng/L
Lab Code: K1301288-011 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	111	77-123	02/21/13	Acceptable
Toluene-d8	96	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-21D **Units:** ng/L
Lab Code: K1301288-012 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	02/21/13	Acceptable
Toluene-d8	96	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	83	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/12/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: MW-18
Lab Code: K1301288-013
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	113	77-123	02/21/13	Acceptable
Toluene-d8	97	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	83	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: 02/11/2013
Date Received: 02/13/2013

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1301288-014
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	77-123	02/21/13	Acceptable
Toluene-d8	97	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	83	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1301617-4
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	77-123	02/21/13	Acceptable
Toluene-d8	98	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	84	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288

**Surrogate Recovery Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
MW-24	K1301288-001	101	98	84
MW-23	K1301288-002	102	97	83
D 27	K1301288-003	105	98	83
MW-27	K1301288-004	105	97	82
MW-19	K1301288-005	103	94	81
MW-20	K1301288-006	105	96	82
MW-3	K1301288-007	109	97	82
MW-15D	K1301288-008	108	96	82
MW-22S	K1301288-009	109	96	83
MW-22D	K1301288-010	110	96	82
MW-21S	K1301288-011	111	96	82
MW-21D	K1301288-012	110	96	83
MW-18	K1301288-013	113	97	83
Trip Blank	K1301288-014	97	97	83
Method Blank	KWG1301617-4	93	98	84
MW-23MS	KWG1301617-1	90	102	113
MW-23DMS	KWG1301617-2	89	102	114
Lab Control Sample	KWG1301617-3	90	101	116

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	77-123
Sur2 = Toluene-d8	74-112
Sur3 = 4-Bromofluorobenzene	46-118

Results flagged with an asterisk (*) indicate values outside control criteria.
 Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Extracted: 02/21/2013
Date Analyzed: 02/21/2013

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1301288-002
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1301617

Analyte Name	Sample Result	MW-23MS KWG1301617-1 Matrix Spike			MW-23DMS KWG1301617-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	1790	2000	89	1750	2000	88	70-130	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301288
Date Extracted: 02/21/2013
Date Analyzed: 02/21/2013

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1301617

Lab Control Sample
KWG1301617-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	1860	2000	93	70-136

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



March 1, 2013

Analytical Report for Service Request No: K1301334

Craig Schwyn
Schwyn Environmental Services
4621 South Custer Court
Spokane, WA 99223

RE: City of Walla Walla Sudbury Road Landfill RI

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on February 14, 2013. For your reference, these analyses have been assigned our service request number K1301334.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3293. You may also contact me via Email at Shar.Samy@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Shar Samy
Project Manager

SS/mj

Page 1 of 74



ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
Columbia Analytical Services, Inc.

Part of the ALS Group A Campbell Brothers Limited Company

Environmental

www.caslab.com ■ www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**Columbia Analytical Services, Inc. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2286
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L12-28
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Georgia DNR	http://www.gaepd.org/Documents/techguide_pcb.html#cel	881
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
Indiana DOH	http://www.in.gov/isdh/24859.htm	C-WA-01
ISO 17025	http://www.pjlabs.com/	L12-27
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	3016
Louisiana DHH	Not available	LA110003
Maine DHS	Not available	WA0035
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-368
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA35
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
New Mexico ED	http://www.nmenv.state.nm.us/dwb/Index.htm	-
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA200001
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	4704427-08-TX
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C1203
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.caslab.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.caslab.com or at the accreditation bodies web site

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

ALS ENVIRONMENTAL

Client: Schwyn Environmental Services **Service Request No.:** K1301334
Project: City of Walla Walla Sudbury Road Landfill RI **Date Received:** 02/14/13
Sample Matrix: Water

Case Narrative

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), Matrix Spike (MS), Matrix/Duplicate Matrix Spike (MS/DMS), Laboratory Control Sample (LCS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Six water samples were received for analysis at ALS Environmental on 02/14/13. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Total Organic Carbon by Standard Method 5310 C:

The Relative Percent Difference (RPD) criterion for the replicate analysis of Total Organic Carbon in sample D14 was not applicable because the analyte concentration was not significantly greater than the Method Reporting Limit (MRL). Analytical values derived from measurements close to the detection limit are not subject to the same accuracy and precision criteria as results derived from measurements higher on the calibration range for the method.

No other anomalies associated with the analysis of these samples were observed.

Dissolved Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Calcium and Magnesium for sample MW-12b were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260

Calibration Verification Exceptions:

The following analyte was flagged as outside the control criterion for Continuing Calibration Verification (CCV) J:\MS13\0215F005.D: trans-1,4-Dichloro-2-butene. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

Approved by _____

The CAS minimum relative response factor criterion for 2-Butanone (MEK) was not met in Continuing Calibration Verification (CCV) J:\MS13\0215F005.D. In accordance with CAS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analyte) at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the compound in question the data quality was not significantly affected. No further corrective action was appropriate.

Matrix Spike Recovery Exceptions:

The matrix spike recovery of several analytes for sample MW-12b was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. No further corrective action was appropriate.

No other anomalies associated with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260-SIM

No anomalies associated with the analysis of these samples were observed.

Approved by _____





PC Shar

Cooler Receipt and Preservation Form

Client / Project: Schwartz Env Service Request K13 01334
 Received: 2/14/13 Opened: 2/14/13 By: [Signature] Unloaded: 2/14/13 By: [Signature]

1. Samples were received via? *Mail* *Fed Ex* UPS *DHL* *PDX* *Courier* *Hand Delivered*
 2. Samples were received in: (circle) Cooler *Box* *Envelope* *Other* NA
 3. Were custody seals on coolers? *NA* Y *N* If yes, how many and where? 2 front + back
 If present, were custody seals intact? Y *N* If present, were they signed and dated? Y *N*

Raw Temp	Corr. Temp	Raw Blank	Corr. Blank	Corr. Factor	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
<u>0.6</u>	<u>0.4</u>	<u>1.7</u>	<u>1.5</u>	<u>-0.2</u>	<u>316</u>	<u>NA</u>	<u>1Z 339 9W8 22 1000 0472</u>		

7. Packing material: *Inserts* *Baggies* Bubble Wrap Gel Packs *Wet Ice* *Dry Ice* *Sleeves*
 8. Were custody papers properly filled out (ink, signed, etc.)? *NA* Y *N*
 9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* *NA* Y *N*
 10. Were all sample labels complete (i.e analysis, preservation, etc.)? *NA* Y *N*
 11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* *NA* Y *N*
 12. Were appropriate bottles/containers and volumes received for the tests indicated? *NA* Y *N*
 13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* *NA* Y *N*
 14. Were VOA vials received without headspace? *Indicate in the table below.* *NA* Y *N*
 15. Was C12/Res negative? *NA* Y *N*

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

SHORT HOLD TIME

Notes, Discrepancies, & Resolutions: _____

CHAIN of CUSTODY

Client: Schwyn Environmental Services

Bill To: Craig Schwyn

Page 1 of 1



800.695.7222
www.caslab.com

4621 South Custer Court

Spokane, WA 99223

Telephone No.

509-448-3187

Method of Shipment

UPS

Project:

City of Walla Walla Sudbury Road Landfill Remedial Investigation

Tier II plus EDD

Special Detection
Limit/Reporting

Sample I.D.	Date	Time	Matrix	VOC's (8260B special List)	Vinyl Chloride by 8260 SIM	Cl, NO3, SO4 by 300.0	ALK by Method 2320B	Ammonia by SM4500	TOC by Method 415.1	TDS by Method SM 2540C	Dissolved Ca, Fe, Mg, Mn, K, Na by 6010C	MS/MSD								
MW-12b	2/12/13	3:30	Water	X	X	X	X	X	X	X	X	X								REMARKS
D14		4:00		X	X	X	X	X	X	X	X									
MW-14b		4:15		X	X	X	X	X	X	X	X									
MW-15		5:00		X	X	X	X	X	X	X	X									
MW-11	2/13/13	8:15		X	X	X	X	X	X	X	X									
Trip Blank				X	X															

Sample Received Intact: Yes No				Temperature received:				Lab Work No.			
Relinq. by sampler (Sign & Print Name)		Date		Time		Received by (Sign & Print Name)					
Craig Schwyn <i>Craig Schwyn</i>		2/13/13		12:00		<i>Schwyn 2/14/13 10:00</i>					
Relinquished by		Date		Time		Received by laboratory		Time		K1301334	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301334
Date Collected: 02/12/13 - 02/13/13
Date Received: 02/14/13

Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1301334-001	133	4.0	20	02/14/13 11:33	
D14	K1301334-002	141	4.0	20	02/14/13 11:43	
MW-14b	K1301334-003	141	4.0	20	02/14/13 11:54	
MW-15	K1301334-004	119	4.0	20	02/14/13 12:04	
MW-11	K1301334-005	86.2	4.0	20	02/14/13 12:15	
Method Blank	K1301334-MB1	ND U	0.20	1	02/14/13 08:53	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/13
Date Received: 02/14/13
Date Analyzed: 02/14/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-12b
Lab Code: K1301334-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				K1301334-001DUP Result			
Chloride	300.0	4.0	133	132	133	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/13
Date Received: 02/14/13
Date Analyzed: 02/14/13

**Duplicate Matrix Spike Summary
Chloride**

Sample Name: MW-12b
Lab Code: K1301334-001
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301334-001MS		Duplicate Matrix Spike K1301334-001DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	133	242	100	108	238	100	105	90-110	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301334
Date Analyzed:02/14/13

Lab Control Sample Summary
Chloride

Analysis Method: 300.0

Units:mg/L

Basis:NA

Analysis Lot:329200

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301334-LCS2	4.87	5.00	97	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301334
Date Collected: 02/12/13 - 02/13/13
Date Received: 02/14/13

Units: mg/L
Basis: NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1301334-001	11.6	1.0	20	02/14/13 11:33	
D14	K1301334-002	10.8	1.0	20	02/14/13 11:43	
MW-14b	K1301334-003	10.9	1.0	20	02/14/13 11:54	
MW-15	K1301334-004	7.8	1.0	20	02/14/13 12:04	
MW-11	K1301334-005	10.1	1.0	20	02/14/13 12:15	
Method Blank	K1301334-MB1	ND U	0.050	1	02/14/13 08:53	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/13
Date Received: 02/14/13
Date Analyzed: 02/14/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-12b
Lab Code: K1301334-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1301334-001DUP Result	Average	RPD	RPD Limit
Nitrate as Nitrogen	300.0	1.0	11.6	11.5	11.5	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/13
Date Received: 02/14/13
Date Analyzed: 02/14/13

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: MW-12b
Lab Code: K1301334-001
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301334-001MS		Duplicate Matrix Spike K1301334-001DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	11.6	118	100	106	118	100	106	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301334
Date Analyzed:02/14/13

Lab Control Sample Summary
Nitrate as Nitrogen

Analysis Method: 300.0

Units:mg/L

Basis:NA

Analysis Lot:329200

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301334-LCS2	18.3	17.7	104	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301334
Date Collected: 02/12/13 - 02/13/13
Date Received: 02/14/13
Units: mg/L
Basis: NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1301334-001	36.4	2.0	20	02/14/13 11:33	
D14	K1301334-002	40.3	2.0	20	02/14/13 11:43	
MW-14b	K1301334-003	40.1	2.0	20	02/14/13 11:54	
MW-15	K1301334-004	44.3	2.0	20	02/14/13 12:04	
MW-11	K1301334-005	30.2	2.0	20	02/14/13 12:15	
Method Blank	K1301334-MB1	ND U	0.10	1	02/14/13 08:53	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/13
Date Received: 02/14/13
Date Analyzed: 02/14/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-12b
Lab Code: K1301334-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				K1301334-001DUP Result			
Sulfate	300.0	2.0	36.4	35.3	35.8	3	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/13
Date Received: 02/14/13
Date Analyzed: 02/14/13

**Duplicate Matrix Spike Summary
Sulfate**

Sample Name: MW-12b
Lab Code: K1301334-001
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301334-001MS		Duplicate Matrix Spike K1301334-001DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	36.4	140	100	104	141	100	105	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301334
Date Analyzed:02/14/13

Lab Control Sample Summary
Sulfate

Analysis Method: 300.0

Units:mg/L

Basis:NA

Analysis Lot:329200

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301334-LCS2	4.99	5.00	100	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 2320 B

Service Request: K1301334
Date Collected: 02/12/13 - 02/13/13
Date Received: 02/14/13

Units: mg/L
Basis: NA

Alkalinity as CaCO₃, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1301334-001	284	9.0	1	02/18/13 12:05	
D14	K1301334-002	291	9.0	1	02/18/13 12:05	
MW-14b	K1301334-003	290	9.0	1	02/18/13 12:05	
MW-15	K1301334-004	533	9.0	1	02/18/13 12:05	
MW-11	K1301334-005	273	9.0	1	02/18/13 12:05	
Method Blank	K1301334-MB1	ND U	9.0	1	02/18/13 12:05	
Method Blank	K1301334-MB2	ND U	9.0	1	02/18/13 12:05	
Method Blank	K1301334-MB3	ND U	9.0	1	02/20/13 12:45	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/13
Date Received: 02/14/13
Date Analyzed: 02/18/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-12b
Lab Code: K1301334-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1301334-001DUP Result	Average	RPD	RPD Limit
Alkalinity as CaCO ₃ , Total	SM 2320 B	9.0	284	284	284	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301334
Date Analyzed:02/20/13

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method: SM 2320 B

Units:mg/L
Basis:NA
Analysis Lot:329897

Lab Control Sample
K1301334-LCS1

Duplicate Lab Control Sample
K1301334-DLCS1

<u>Analyte Name</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
Alkalinity as CaCO3, Total	120	122	98	121	122	99	90-110	<1	20

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 2540 C

Service Request: K1301334
Date Collected: 02/12/13 - 02/13/13
Date Received: 02/14/13

Units: mg/L
Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1301334-001	612	10	1	02/19/13 13:00	
D14	K1301334-002	611	13	1	02/19/13 13:00	
MW-14b	K1301334-003	599	13	1	02/19/13 13:00	
MW-15	K1301334-004	859	13	1	02/19/13 13:00	
MW-11	K1301334-005	544	10	1	02/19/13 13:00	
Method Blank	K1301334-MB1	ND U	5.0	1	02/19/13 13:00	
Method Blank	K1301334-MB2	ND U	5.0	1	02/19/13 13:00	

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QA/QC Report

Client: Schwyn Environmental Services
Project City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 2540 C

Service Request: K1301334

Date Collected: 02/12/13

Date Received: 02/14/13

Units: mg/L

Basis: NA

Duplicate Sample Summary

Solids, Total Dissolved

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-12b	K1301334-001DUP	10	612	612	612	<1	10	02/19/13
MW-15	K1301334-004DUP	13	859	865	862	<1	10	02/19/13

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301334

Date Analyzed:02/19/13

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units:mg/L

Basis:NA

Analysis Lot:329743

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301334-LCS2	1840	1810	101	90-108

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 4500-NH3 E

Service Request: K1301334
Date Collected: 02/12/13 - 02/13/13
Date Received: 02/14/13

Units: mg/L
Basis: NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1301334-001	ND U	0.050	1	02/20/13 03:15	
D14	K1301334-002	ND U	0.050	1	02/20/13 03:15	
MW-14b	K1301334-003	ND U	0.050	1	02/20/13 03:15	
MW-15	K1301334-004	ND U	0.050	1	02/20/13 03:15	
MW-11	K1301334-005	ND U	0.050	1	02/20/13 03:15	
Method Blank	K1301334-MB1	ND U	0.050	1	02/20/13 03:15	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: NA
Date Received: NA
Date Analyzed: 02/20/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: Batch QC
Lab Code: K1301288-002

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1301288-002DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Ammonia as Nitrogen	SM 4500-NH3 E	0.050	ND	ND	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301334
Date Collected:N/A
Date Received:N/A
Date Analyzed:02/20/13

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: Batch QC
Lab Code: K1301288-002
Analysis Method: SM 4500-NH3 E

Units:mg/L
Basis:NA

Matrix Spike
K1301288-002MS

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	ND	10.4	10.0	104	80-115

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301334
Date Analyzed:02/20/13

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: SM 4500-NH3 E

Units:mg/L

Basis:NA

Analysis Lot:329337

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301334-LCS2	10.3	10.9	94	80-115

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1301334
Date Collected: 02/12/13 - 02/13/13
Date Received: 02/14/13

Units: mg/L
Basis: NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-12b	K1301334-001	0.57	0.50	1	02/15/13 20:42	
D14	K1301334-002	0.69	0.50	1	02/15/13 20:42	
MW-14b	K1301334-003	0.59	0.50	1	02/15/13 20:42	
MW-15	K1301334-004	1.30	0.50	1	02/15/13 20:42	
MW-11	K1301334-005	0.53	0.50	1	02/15/13 20:42	
Method Blank	K1301334-MB1	ND U	0.50	1	02/15/13 20:42	
Method Blank	K1301334-MB2	ND U	0.50	1	02/15/13 20:42	
Method Blank	K1301334-MB3	ND U	0.50	1	02/15/13 20:42	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1301334
Date Collected: 02/12/13 - 02/13/13
Date Received: 02/14/13

Units: mg/L
Basis: NA

Duplicate Sample Summary
Carbon, Total Organic

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-12b	K1301334-001DUP	0.50	0.57	0.55	0.563	4	10	02/15/13
D14	K1301334-002DUP	0.50	0.69	0.53	0.609	25 *	10	02/15/13
MW-14b	K1301334-003DUP	0.50	0.59	0.57	0.578	3	10	02/15/13
MW-15	K1301334-004DUP	0.50	1.30	1.30	1.30	<1	10	02/15/13
MW-11	K1301334-005DUP	0.50	0.53	0.56	0.546	5	10	02/15/13

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301334
Date Collected:02/12/13
Date Received:02/14/13
Date Analyzed:02/15/13

Matrix Spike Summary
Carbon, Total Organic

Sample Name: MW-12b
Lab Code: K1301334-001
Analysis Method: SM 5310 C

Units:mg/L
Basis:NA

Matrix Spike
K1301334-001MS

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Carbon, Total Organic	0.57	26.7	25.0	105	83-117

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301334
Date Collected:N/A
Date Received:N/A
Date Analyzed:02/15/13

Duplicate Matrix Spike Summary
Carbon, Total Organic

Sample Name: Batch QC
Lab Code: K1301344-005
Analysis Method: SM 5310 C

Units:mg/L
Basis:NA

Analyte Name	Sample Result	Result	Matrix Spike K1301344-005MS		Duplicate Matrix Spike K1301344-005DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Carbon, Total Organic	1.56	27.7	25.0	105	27.6	25.0	104	83-117	<1	10

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Results flagged with a pound (#) indicate the control criteria is not applicable.

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: N/A
Date Received: N/A
Date Analyzed: 02/15/13

**Duplicate Matrix Spike Summary
 Carbon, Total Organic**

Sample Name: Batch QC
Lab Code: K1301344-011
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301344-011MS		Duplicate Matrix Spike K1301344-011DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Carbon, Total Organic	2.31	29.1	25.0	107	28.7	25.0	106	83-117	1	10

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301334

Date Analyzed:02/15/13

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method: SM 5310 C

Units:mg/L

Basis:NA

Analysis Lot:329425

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301334-LCS2	23.2	22.7	102	83-117
Lab Control Sample	K1301334-LCS3	23.2	22.7	102	83-117
Lab Control Sample	K1301334-LCS4	23.0	22.7	101	83-117

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- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services
Project Name: City of Walla Walla Sudbury Road Landfill RI
Project No.:

Service Request: K1301334

<u>Sample Name:</u>	<u>Lab Code:</u>
MW-12b	K1301334-001DISS
MW-12bD	K1301334-001DISSD
MW-12bS	K1301334-001DISSS
D14	K1301334-002DISS
MW-14b	K1301334-003DISS
MW-15	K1301334-004DISS
MW-11	K1301334-005DISS
Method Blank	K1301334-MB

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301334
Project No.: NA **Date Collected:** 02/12/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/14/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-12b **Lab Code:** K1301334-001DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	107000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	48900		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	7900		
Sodium	6010C	200	1.0	02/18/13	02/22/13	30700		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301334
Project No.: NA **Date Collected:** 02/12/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/14/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: D14 **Lab Code:** K1301334-002DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	122000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	50800		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	7790		
Sodium	6010C	200	1.0	02/18/13	02/22/13	18500		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301334
Project No.: NA **Date Collected:** 02/12/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/14/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-14b **Lab Code:** K1301334-003DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	123000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	49500		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	7620		
Sodium	6010C	200	1.0	02/18/13	02/22/13	18000		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301334
Project No.: NA **Date Collected:** 02/12/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/14/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-15 **Lab Code:** K1301334-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	163000		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	50400		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	48.6		
Potassium	6010C	400	1.0	02/18/13	02/22/13	8830		
Sodium	6010C	200	1.0	02/18/13	02/22/13	69900		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
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Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301334
Project No.: NA **Date Collected:** 02/13/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/14/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-11 **Lab Code:** K1301334-005DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	89600		
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	35300		
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	8130		
Sodium	6010C	200	1.0	02/18/13	02/22/13	37400		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301334
Project No.: NA **Date Collected:**
Project Name: City of Walla Walla Sudbury Roa **Date Received:**
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: Method Blank **Lab Code:** K1301334-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/22/13	50.0	U	
Iron	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/22/13	20.0	U	
Manganese	6010C	5.0	1.0	02/18/13	02/22/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/22/13	400	U	
Sodium	6010C	200	1.0	02/18/13	02/22/13	200	U	

Comments:

Metals
 - 5A -
SPIKE SAMPLE RECOVERY

Client: Schwyn Environmental Services **Service Request:** K1301334
Project No.: NA **Units:** UG/L
Project Name: City of Walla Walla Sudbury Roa **Basis:** NA
Matrix: WATER

Sample Name: MW-12bS

Lab Code: K1301334-001DISSS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Calcium		116000		107000		10000.00	90.0		6010C
Iron	75 - 125	990		20.0	U	1000.00	99.0		6010C
Magnesium		58200		48900		10000.00	93.0		6010C
Manganese	84 - 121	478		5.0	U	500.00	95.6		6010C
Potassium	75 - 125	18200		7900		10000.00	103.0		6010C
Sodium	75 - 125	40700		30700		10000.00	100.0		6010C

An empty field in the Control Limit column indicates the control limit is not applicable

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Metals

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DUPLICATES**Client:** Schwyn Environmental Services**Service Request:** K1301334**Project No.:** NA**Units:** UG/L**Project Name:** City of Walla Walla Sudbury Roa**Basis:** NA**Matrix:** WATER**Sample Name:** MW-12bD**Lab Code:** K1301334-001DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	107000		109000		1.9		6010C
Iron		20.0	U	20.0	U			6010C
Magnesium	20	48900		49000		0.2		6010C
Manganese		5.0	U	5.0	U			6010C
Potassium	20	7900		7880		0.3		6010C
Sodium	20	30700		30700		0.0		6010C

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals
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LABORATORY CONTROL SAMPLE

Client: Schwyn Environmental Services

Service Request: K1301334

Project No.: NA

Project Name: City of Walla Walla Sudbury Roa

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Calcium	12500	12700	101.6					
Iron	2500	2480	99.2					
Magnesium	12500	12100	96.8					
Manganese	1250	1190	95.2					
Potassium	12500	12000	96.0					
Sodium	12500	12200	97.6					

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1301334-001
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Chloride	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichlorofluoromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Acetone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Iodomethane	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
Carbon Disulfide	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Methylene Chloride	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Acrylonitrile	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Acetate	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
2-Butanone (MEK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Bromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroform	0.96		0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Carbon Tetrachloride	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Benzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichloroethene (TCE)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Dibromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromodichloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Toluene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,2-Trichloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Tetrachloroethene (PCE)	0.90		0.50	1	02/15/13	02/15/13	KWG1301454	
2-Hexanone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1301334-001
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Chlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Ethylbenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
m,p-Xylenes	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
o-Xylene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Styrene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromoform	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	*
1,2,3-Trichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,4-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	100	73-122	02/15/13	Acceptable
Toluene-d8	100	65-144	02/15/13	Acceptable
4-Bromofluorobenzene	98	68-117	02/15/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: D14
Lab Code: K1301334-002
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.72		0.50	1	02/15/13	02/15/13	KWG1301454	
Chloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Chloride	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichlorofluoromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Acetone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Iodomethane	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
Carbon Disulfide	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Methylene Chloride	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Acrylonitrile	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Acetate	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
2-Butanone (MEK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Bromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroform	1.0		0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Carbon Tetrachloride	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Benzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichloroethene (TCE)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Dibromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromodichloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Toluene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,2-Trichloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Tetrachloroethene (PCE)	1.1		0.50	1	02/15/13	02/15/13	KWG1301454	
2-Hexanone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: D14
Lab Code: K1301334-002
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Chlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Ethylbenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
m,p-Xylenes	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
o-Xylene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Styrene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromoform	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	*
1,2,3-Trichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,4-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	73-122	02/15/13	Acceptable
Toluene-d8	100	65-144	02/15/13	Acceptable
4-Bromofluorobenzene	102	68-117	02/15/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-14b
Lab Code: K1301334-003
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.71		0.50	1	02/15/13	02/15/13	KWG1301454	
Chloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Chloride	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichlorofluoromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Acetone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Iodomethane	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
Carbon Disulfide	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Methylene Chloride	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Acrylonitrile	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Acetate	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
2-Butanone (MEK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Bromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroform	0.98		0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Carbon Tetrachloride	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Benzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichloroethene (TCE)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Dibromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromodichloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Toluene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,2-Trichloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Tetrachloroethene (PCE)	1.0		0.50	1	02/15/13	02/15/13	KWG1301454	
2-Hexanone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-14b
Lab Code: K1301334-003
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Chlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Ethylbenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
m,p-Xylenes	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
o-Xylene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Styrene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromoform	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	*
1,2,3-Trichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,4-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	73-122	02/15/13	Acceptable
Toluene-d8	100	65-144	02/15/13	Acceptable
4-Bromofluorobenzene	99	68-117	02/15/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1301334-004
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	3.4		0.50	1	02/15/13	02/15/13	KWG1301454	
Chloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Chloride	0.78		0.50	1	02/15/13	02/15/13	KWG1301454	
Bromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichlorofluoromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Acetone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Iodomethane	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
Carbon Disulfide	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Methylene Chloride	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Acrylonitrile	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethane	3.9		0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Acetate	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
cis-1,2-Dichloroethene	14		0.50	1	02/15/13	02/15/13	KWG1301454	
2-Butanone (MEK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Bromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroform	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Carbon Tetrachloride	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Benzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichloroethene (TCE)	2.2		0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Dibromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromodichloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Toluene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,2-Trichloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Tetrachloroethene (PCE)	6.8		0.50	1	02/15/13	02/15/13	KWG1301454	
2-Hexanone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1301334-004
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Chlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Ethylbenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
m,p-Xylenes	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
o-Xylene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Styrene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromoform	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	*
1,2,3-Trichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,4-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	73-122	02/15/13	Acceptable
Toluene-d8	99	65-144	02/15/13	Acceptable
4-Bromofluorobenzene	103	68-117	02/15/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/13/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-11
Lab Code: K1301334-005
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.63		0.50	1	02/16/13	02/16/13	KWG1301454	
Chloromethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Vinyl Chloride	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Bromomethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Chloroethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Trichlorofluoromethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
1,1-Dichloroethene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Acetone	ND	U	20	1	02/16/13	02/16/13	KWG1301454	
Iodomethane	ND	U	5.0	1	02/16/13	02/16/13	KWG1301454	
Carbon Disulfide	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Methylene Chloride	ND	U	2.0	1	02/16/13	02/16/13	KWG1301454	
Acrylonitrile	ND	U	5.0	1	02/16/13	02/16/13	KWG1301454	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
1,1-Dichloroethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Vinyl Acetate	ND	U	5.0	1	02/16/13	02/16/13	KWG1301454	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
2-Butanone (MEK)	ND	U	20	1	02/16/13	02/16/13	KWG1301454	
Bromochloromethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Chloroform	1.4		0.50	1	02/16/13	02/16/13	KWG1301454	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Carbon Tetrachloride	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Benzene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Trichloroethene (TCE)	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
1,2-Dichloropropane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Dibromomethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Bromodichloromethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/16/13	02/16/13	KWG1301454	
Toluene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
1,1,2-Trichloroethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Tetrachloroethene (PCE)	1.4		0.50	1	02/16/13	02/16/13	KWG1301454	
2-Hexanone	ND	U	20	1	02/16/13	02/16/13	KWG1301454	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/13/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-11
Lab Code: K1301334-005
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/16/13	02/16/13	KWG1301454	
Chlorobenzene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Ethylbenzene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
m,p-Xylenes	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
o-Xylene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Styrene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
Bromoform	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/16/13	02/16/13	KWG1301454	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/16/13	02/16/13	KWG1301454	*
1,2,3-Trichloropropane	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
1,4-Dichlorobenzene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
1,2-Dichlorobenzene	ND	U	0.50	1	02/16/13	02/16/13	KWG1301454	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/16/13	02/16/13	KWG1301454	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	102	73-122	02/16/13	Acceptable
Toluene-d8	101	65-144	02/16/13	Acceptable
4-Bromofluorobenzene	101	68-117	02/16/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1301334-006
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Chloride	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichlorofluoromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Acetone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Iodomethane	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
Carbon Disulfide	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Methylene Chloride	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Acrylonitrile	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Acetate	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
2-Butanone (MEK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Bromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroform	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Carbon Tetrachloride	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Benzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichloroethene (TCE)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Dibromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromodichloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Toluene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,2-Trichloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
2-Hexanone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1301334-006
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Chlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Ethylbenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
m,p-Xylenes	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
o-Xylene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Styrene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromoform	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	*
1,2,3-Trichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,4-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	02/15/13	Acceptable
Toluene-d8	101	65-144	02/15/13	Acceptable
4-Bromofluorobenzene	102	68-117	02/15/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1301454-4
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Chloride	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichlorofluoromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Acetone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Iodomethane	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
Carbon Disulfide	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Methylene Chloride	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Acrylonitrile	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1-Dichloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Vinyl Acetate	ND	U	5.0	1	02/15/13	02/15/13	KWG1301454	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
2-Butanone (MEK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Bromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Chloroform	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Carbon Tetrachloride	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Benzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Trichloroethene (TCE)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Dibromomethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromodichloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/15/13	02/15/13	KWG1301454	
Toluene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,2-Trichloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
2-Hexanone	ND	U	20	1	02/15/13	02/15/13	KWG1301454	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1301454-4
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dibromochloromethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	
Chlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Ethylbenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
m,p-Xylenes	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
o-Xylene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Styrene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
Bromoform	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/15/13	02/15/13	KWG1301454	*
1,2,3-Trichloropropane	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,4-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dichlorobenzene	ND	U	0.50	1	02/15/13	02/15/13	KWG1301454	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/15/13	02/15/13	KWG1301454	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	73-122	02/15/13	Acceptable
Toluene-d8	101	65-144	02/15/13	Acceptable
4-Bromofluorobenzene	102	68-117	02/15/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334

**Surrogate Recovery Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
MW-12b	K1301334-001	100	100	98
D14	K1301334-002	102	100	102
MW-14b	K1301334-003	101	100	99
MW-15	K1301334-004	103	99	103
MW-11	K1301334-005	102	101	101
Trip Blank	K1301334-006	99	101	102
Method Blank	KWG1301454-4	101	101	102
MW-12bMS	KWG1301454-1	103	101	105
MW-12bDMS	KWG1301454-2	104	103	108
Lab Control Sample	KWG1301454-3	106	104	106

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	73-122
Sur2 = Toluene-d8	65-144
Sur3 = 4-Bromofluorobenzene	68-117

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Extracted: 02/15/2013
Date Analyzed: 02/15/2013

**Matrix Spike/Duplicate Matrix Spike Summary
 Volatile Organic Compounds**

Sample Name: MW-12b
Lab Code: K1301334-001
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1301454

Analyte Name	Sample Result	MW-12bMS KWG1301454-1 Matrix Spike			MW-12bDMS KWG1301454-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	12.0	10.0	120	11.1	10.0	111	49-136	8	30
1,1-Dichloroethene	ND	17.1	10.0	171	15.8	10.0	158	59-171	8	30
Chloroform	0.96	14.7	10.0	138 *	14.1	10.0	131	64-133	4	30
Carbon Tetrachloride	ND	15.0	10.0	150	14.1	10.0	141	53-161	6	30
Benzene	ND	12.7	10.0	127	12.1	10.0	121	63-144	5	30
Trichloroethene (TCE)	ND	14.4	10.0	144 *	13.5	10.0	135	53-139	7	30
Bromodichloromethane	ND	13.8	10.0	138 *	13.3	10.0	133	61-134	3	30
Toluene	ND	13.9	10.0	139 *	13.2	10.0	132	71-136	5	30
1,1,2-Trichloroethane	ND	13.5	10.0	135 *	13.3	10.0	133 *	74-124	2	30
2-Hexanone	ND	61.5	50.0	123	59.1	50.0	118	53-132	4	30
Chlorobenzene	ND	14.5	10.0	145 *	13.8	10.0	138 *	69-126	5	30
Ethylbenzene	ND	14.4	10.0	144 *	13.5	10.0	135	66-136	7	30
1,2,3-Trichloropropane	ND	12.8	10.0	128 *	12.9	10.0	129 *	71-127	0	30
1,2-Dichlorobenzene	ND	13.3	10.0	133 *	12.7	10.0	127 *	72-119	5	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Extracted: 02/15/2013
Date Analyzed: 02/15/2013

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1301454

Lab Control Sample
 KWG1301454-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	9.33	10.0	93	32-124
Chloromethane	9.56	10.0	96	34-130
Vinyl Chloride	8.89	10.0	89	55-123
Bromomethane	10.5	10.0	105	35-113
Chloroethane	10.1	10.0	101	58-134
Trichlorofluoromethane	9.00	10.0	90	52-141
1,1-Dichloroethene	12.6	10.0	126	66-129
Acetone	51.6	50.0	103	68-135
Iodomethane	42.7	30.0	142	51-164
Carbon Disulfide	20.3	20.0	101	46-144
Methylene Chloride	10.2	10.0	102	71-122
Acrylonitrile	35.5	40.0	89	65-129
trans-1,2-Dichloroethene	11.1	10.0	111	67-125
1,1-Dichloroethane	10.1	10.0	101	68-132
Vinyl Acetate	53.4	50.0	107	44-156
cis-1,2-Dichloroethene	11.2	10.0	112	71-118
2-Butanone (MEK)	50.3	50.0	101	71-149
Bromochloromethane	11.3	10.0	113	75-131
Chloroform	10.3	10.0	103	70-129
1,1,1-Trichloroethane (TCA)	10.6	10.0	106	59-136
Carbon Tetrachloride	11.2	10.0	112	55-140
Benzene	9.51	10.0	95	69-124
1,2-Dichloroethane (EDC)	10.0	10.0	100	56-142
Trichloroethene (TCE)	10.6	10.0	106	67-128
1,2-Dichloropropane	9.95	10.0	100	67-126
Dibromomethane	10.3	10.0	103	69-128
Bromodichloromethane	10.3	10.0	103	63-129
cis-1,3-Dichloropropene	9.29	10.0	93	62-132
4-Methyl-2-pentanone (MIBK)	42.6	50.0	85	64-134
Toluene	10.4	10.0	104	69-124
trans-1,3-Dichloropropene	10.7	10.0	107	59-125
1,1,2-Trichloroethane	9.86	10.0	99	74-118
Tetrachloroethene (PCE)	11.3	10.0	113	62-126
2-Hexanone	44.1	50.0	88	59-131
Dibromochloromethane	10.4	10.0	104	67-126

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Extracted: 02/15/2013
Date Analyzed: 02/15/2013

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1301454

Lab Control Sample
 KWG1301454-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	9.94	10.0	99	74-118
Chlorobenzene	10.7	10.0	107	72-116
Ethylbenzene	10.8	10.0	108	67-121
1,1,1,2-Tetrachloroethane	10.9	10.0	109	66-124
m,p-Xylenes	21.8	20.0	109	69-121
o-Xylene	11.0	10.0	110	71-119
Styrene	10.7	10.0	107	74-121
Bromoform	10.5	10.0	105	52-144
cis-1,4-Dichloro-2-butene	29.3	30.0	98	26-171
1,1,2,2-Tetrachloroethane	8.53	10.0	85	70-127
trans-1,4-Dichloro-2-butene	22.3	30.0	74	46-170
1,2,3-Trichloropropane	9.27	10.0	93	69-123
1,4-Dichlorobenzene	9.90	10.0	99	73-115
1,2-Dichlorobenzene	9.56	10.0	96	72-115
1,2-Dibromo-3-chloropropane	9.58	10.0	96	55-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-12b **Units:** ng/L
Lab Code: K1301334-001 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	77-123	02/22/13	Acceptable
Toluene-d8	96	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: D14 **Units:** ng/L
Lab Code: K1301334-002 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	77-123	02/22/13	Acceptable
Toluene-d8	95	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-14b **Units:** ng/L
Lab Code: K1301334-003 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	77-123	02/22/13	Acceptable
Toluene-d8	95	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	81	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1301334-004
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	680		20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	77-123	02/22/13	Acceptable
Toluene-d8	95	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/13/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: MW-11 **Units:** ng/L
Lab Code: K1301334-005 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	77-123	02/22/13	Acceptable
Toluene-d8	95	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: 02/12/2013
Date Received: 02/14/2013

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1301334-006
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	77-123	02/22/13	Acceptable
Toluene-d8	97	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	83	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** ng/L
Lab Code: KWG1301636-4 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	77-123	02/22/13	Acceptable
Toluene-d8	99	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	84	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334

**Surrogate Recovery Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
MW-12b	K1301334-001	106	96	82
D14	K1301334-002	106	95	82
MW-14b	K1301334-003	107	95	81
MW-15	K1301334-004	107	95	82
MW-11	K1301334-005	107	95	82
Trip Blank	K1301334-006	101	97	83
Method Blank	KWG1301636-4	101	99	84
MW-12bMS	KWG1301636-1	95	103	115
MW-12bDMS	KWG1301636-2	94	104	115
Lab Control Sample	KWG1301636-3	95	103	118

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	77-123
Sur2 = Toluene-d8	74-112
Sur3 = 4-Bromofluorobenzene	46-118

Results flagged with an asterisk (*) indicate values outside control criteria.
 Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Extracted: 02/22/2013
Date Analyzed: 02/22/2013

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1301334-001
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1301636

Analyte Name	Sample Result	MW-12bMS KWG1301636-1 Matrix Spike			MW-12bDMS KWG1301636-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	1860	2000	93	1740	2000	87	70-130	7	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301334
Date Extracted: 02/22/2013
Date Analyzed: 02/22/2013

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1301636

Lab Control Sample
KWG1301636-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2040	2000	102	70-136

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



March 4, 2013

Analytical Report for Service Request No: K1301368

Craig Schwyn
Schwyn Environmental Services
4621 South Custer Court
Spokane, WA 99223

RE: City of Walla Walla Sudbury Road Landfill RI

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on February 15, 2013. For your reference, these analyses have been assigned our service request number K1301368.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3293. You may also contact me via Email at Shar.Samy@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Shar Samy
Project Manager

SS/mj

Page 1 of 93



ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626
PHONE +1 360 577 7222 | FAX +1 360 636 1068
Columbia Analytical Services, Inc.

Part of the ALS Group A Campbell Brothers Limited Company

Environmental 

www.caslab.com ■ www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**Columbia Analytical Services, Inc. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2286
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L12-28
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Georgia DNR	http://www.gaepd.org/Documents/techguide_pcb.html#cel	881
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
Indiana DOH	http://www.in.gov/isdh/24859.htm	C-WA-01
ISO 17025	http://www.pjlabs.com/	L12-27
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	3016
Louisiana DHH	Not available	LA110003
Maine DHS	Not available	WA0035
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-368
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA35
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
New Mexico ED	http://www.nmenv.state.nm.us/dwb/Index.htm	-
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA200001
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	4704427-08-TX
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C1203
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.caslab.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.caslab.com or at the accreditation bodies web site

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

CHAIN of CUSTODY



800.695.7222
www.caslab.com

Client: Schwyn Environmental Services
4621 South Custer Court
Spokane, WA 99223

Bill To: Schwyn Enviro. Svcs.
Telephone No.
509-448-3187

Page 1 of 1

Method of Shipment
UPS

Project:
City of Walla Walla Sudbury Road Landfill Remedial Investigation

Tier II plus EDD

Special Detection
Limit/Reporting

Short Hold

Sample I.D.	Date	Time	Matrix	VOC's (8260B special List)	Vinyl Chloride by 8260 SIM	Cl, NO3, SO4 by 300.0	ALK by Method 2320B	Ammonia by SM4500	TOC by Method 415.1	TDS by Method SM 2540C	Dissolved Ca, Fe, Mg, Mn, K, Na by 6010C	MS/MSD						
MW-5	2/13/13	9:00		X	X													
MW-9		9:35		X	X													
MW-10		10:00		X	X													
Camp Schmidt		11:20		X	X													
Small		11:00		X	X													
Kimmer		11:40		X	X													
MW-16		14:16		X	X	X	X	X	X	X	X							
MW-17		13:45		X	X	X	X	X	X	X	X							
MW-25		15:20		X	X	X	X	X	X	X	X							
MW-26		14:45		X	X	X	X	X	X	X	X							

R
E
M
A
R
K
S

Sample Received Intact: Yes No

Temperature received:

Lab Work No.

Relinq. by sampler (Sign & Print Name)
Craig Schwyn *Craig*

Date Time
2/14/13 12:00

Received by (Sign & Print Name)
David Davis

Relinquished by

Date Time

Received by laboratory Time
ALS-Kelso 2/15/13 12:00

K/30/13/8



PC Skas

Cooler Receipt and Preservation Form

Client / Project: Schwinn Environmental Service Request K13 01368

Received: 2/15/13 Opened: 2/15/13 By: SD Unloaded: 2/15/13 By: SD

- 1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
- 2. Samples were received in: (circle) Cooler Box Envelope Other _____ NA
- 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Temp	Corr. Temp	Raw Blank	Corr. Blank	Corr. Factor	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
5.2	5.2	-	-	D	312	NA	12351910322100004103		
SHORT HOLD TIME									

- 7. Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
- 8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 9. Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA Y N
- 10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
- 11. Did all sample labels and tags agree with custody papers? Indicate major discrepancies in the table on page 2. NA Y N
- 12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 13. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below. NA Y N
- 14. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: rec'd 4 Trip blanks not on COC

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13
Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1301368-008	138	4.0	20	02/15/13 12:28	
MW-17	K1301368-009	131	4.0	20	02/15/13 12:13	
MW-25	K1301368-010	60.9	4.0	20	02/15/13 12:44	
MW-26	K1301368-011	93.9	4.0	20	02/15/13 13:33	
Method Blank	K1301368-MB1	ND U	0.20	1	02/15/13 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13
Date Analyzed: 02/15/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-25
Lab Code: K1301368-010

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				K1301368-010DUP Result			
Chloride	300.0	4.0	60.9	61.4	61.1	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368
Date Collected:02/13/13
Date Received:02/15/13
Date Analyzed:02/15/13

Duplicate Matrix Spike Summary
Chloride

Sample Name: MW-25
Lab Code: K1301368-010
Analysis Method: 300.0

Units:mg/L
Basis:NA

Analyte Name	Sample Result	Result	Matrix Spike K1301368-010MS		Duplicate Matrix Spike K1301368-010DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	60.9	104	40.0	108	104	40.0	108	90-110	<1	20

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Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368

Date Analyzed:02/15/13

**Lab Control Sample Summary
Chloride**

Analysis Method: 300.0

Units:mg/L

Basis:NA

Analysis Lot:329392

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301368-LCS2	4.68	5.00	94	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13
Units: mg/L
Basis: NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1301368-008	8.4	1.0	20	02/15/13 12:28	
MW-17	K1301368-009	10.0	1.0	20	02/15/13 12:13	
MW-25	K1301368-010	10.8	1.0	20	02/15/13 12:44	
MW-26	K1301368-011	8.0	1.0	20	02/15/13 13:33	
Method Blank	K1301368-MB1	ND U	0.050	1	02/15/13 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13
Date Analyzed: 02/15/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-25
Lab Code: K1301368-010

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1301368-010DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Nitrate as Nitrogen	300.0	1.0	10.8	10.9	10.8	1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368
Date Collected:02/13/13
Date Received:02/15/13
Date Analyzed:02/15/13

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: MW-25
Lab Code: K1301368-010
Analysis Method: 300.0

Units:mg/L
Basis:NA

Analyte Name	Sample Result	Result	Matrix Spike K1301368-010MS		Duplicate Matrix Spike K1301368-010DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	10.8	53.4	40.0	107	53.6	40.0	107	90-110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368

Date Analyzed:02/15/13

Lab Control Sample Summary
Nitrate as Nitrogen

Analysis Method: 300.0

Units:mg/L

Basis:NA

Analysis Lot:329392

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301368-LCS2	18.6	17.7	105	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13

Units: mg/L
Basis: NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1301368-008	34.2	2.0	20	02/15/13 12:28	
MW-17	K1301368-009	28.8	2.0	20	02/15/13 12:13	
MW-25	K1301368-010	25.2	2.0	20	02/15/13 12:44	
MW-26	K1301368-011	27.9	2.0	20	02/15/13 13:33	
Method Blank	K1301368-MB1	ND U	0.10	1	02/15/13 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13
Date Analyzed: 02/15/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-25
Lab Code: K1301368-010

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				K1301368-010DUP Result			
Sulfate	300.0	2.0	25.2	25.7	25.4	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368
Date Collected:02/13/13
Date Received:02/15/13
Date Analyzed:02/15/13

Duplicate Matrix Spike Summary
Sulfate

Sample Name: MW-25
Lab Code: K1301368-010
Analysis Method: 300.0

Units:mg/L
Basis:NA

Analyte Name	Sample Result	Result	Matrix Spike K1301368-010MS		Duplicate Matrix Spike K1301368-010DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	25.2	65.2	40.0	100	65.6	40.0	101	90-110	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368
Date Analyzed:02/15/13

Lab Control Sample Summary
Sulfate

Analysis Method: 300.0

Units:mg/L

Basis:NA

Analysis Lot:329392

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301368-LCS2	4.75	5.00	95	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 2320 B

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13

Units: mg/L
Basis: NA

Alkalinity as CaCO₃, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1301368-008	282	9.0	1	02/18/13 12:05	
MW-17	K1301368-009	306	9.0	1	02/18/13 12:05	
MW-25	K1301368-010	228	9.0	1	02/18/13 12:05	
MW-26	K1301368-011	310	9.0	1	02/18/13 12:05	
Method Blank	K1301368-MB1	ND U	9.0	1	02/20/13 12:45	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13
Date Analyzed: 02/18/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-26
Lab Code: K1301368-011

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1301368-011DUP Result	Average	RPD	RPD Limit
Alkalinity as CaCO ₃ , Total	SM 2320 B	9.0	310	309	310	<1	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368
Date Analyzed:02/20/13

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method: SM 2320 B

Units:mg/L

Basis:NA

Analysis Lot:329897

Lab Control Sample
K1301368-LCS1

Duplicate Lab Control Sample
K1301368-DLCS1

<u>Analyte Name</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
Alkalinity as CaCO ₃ , Total	120	122	98	121	122	99	90-110	<1	20

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 2540 C

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13

Units: mg/L
Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1301368-008	608	13	1	02/20/13 14:30	
MW-17	K1301368-009	623	13	1	02/20/13 14:30	
MW-25	K1301368-010	459	10	1	02/20/13 14:30	
MW-26	K1301368-011	624	10	1	02/20/13 14:30	
Method Blank	K1301368-MB1	ND U	5.0	1	02/20/13 14:30	
Method Blank	K1301368-MB2	ND U	5.0	1	02/20/13 14:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13
Date Analyzed: 02/20/13

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-16
Lab Code: K1301368-008

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1301368-008DUP Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	13	608	589	599	3	10

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368

Date Analyzed:02/20/13

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units:mg/L

Basis:NA

Analysis Lot:329981

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301368-LCS2	1780	1810	98	90-108

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 4500-NH3 E

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13

Units: mg/L
Basis: NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1301368-008	ND U	0.050	1	02/28/13 09:30	
MW-17	K1301368-009	ND U	0.050	1	02/28/13 09:30	
MW-25	K1301368-010	ND U	0.050	1	02/28/13 09:30	
MW-26	K1301368-011	ND U	0.050	1	02/28/13 09:30	
Method Blank	K1301368-MB1	ND U	0.050	1	02/28/13 09:30	
Method Blank	K1301368-MB2	ND U	0.050	1	02/28/13 09:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 4500-NH3 E

Service Request: K1301368
Date Collected: NA
Date Received: NA
Units: mg/L
Basis: NA

Duplicate Sample Summary
Ammonia as Nitrogen

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1301425-001DUP	0.050	0.027	ND	NC	NC	20	02/28/13
Batch QC	K1301661-002DUP	0.050	ND	ND	NC	NC	20	02/28/13

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368
Date Collected:N/A
Date Received:N/A
Date Analyzed:02/28/13

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: Batch QC
Lab Code: K1301425-001
Analysis Method: SM 4500-NH3 E

Units:mg/L
Basis:NA

Matrix Spike
K1301425-001MS

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	0.027	10.2	10.0	102	80-115

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368
Date Collected:N/A
Date Received:N/A
Date Analyzed:02/28/13

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: Batch QC
Lab Code: K1301661-002
Analysis Method: SM 4500-NH3 E

Units:mg/L
Basis:NA

Matrix Spike
K1301661-002MS

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	ND	9.52	10.0	95	80-115

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368
Date Analyzed:02/28/13

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: SM 4500-NH3 E

Units:mg/L

Basis:NA

Analysis Lot:330805

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301368-LCS2	10.2	10.9	94	80-115
Lab Control Sample	K1301368-LCS3	10.3	10.9	94	80-115

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13

Units: mg/L
Basis: NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1301368-008	ND U	0.50	1	02/15/13 20:42	
MW-17	K1301368-009	0.78	0.50	1	02/15/13 20:42	
MW-25	K1301368-010	0.53	0.50	1	02/15/13 20:42	
MW-26	K1301368-011	0.54	0.50	1	02/15/13 20:42	
Method Blank	K1301368-MB1	ND U	0.50	1	02/15/13 20:42	
Method Blank	K1301368-MB2	ND U	0.50	1	02/15/13 20:42	
Method Blank	K1301368-MB3	ND U	0.50	1	02/15/13 20:42	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1301368

Date Collected: 02/13/13

Date Received: 02/15/13

Units: mg/L

Basis: NA

Duplicate Sample Summary

Carbon, Total Organic

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-16	K1301368-008DUP	0.50	ND	ND	NC	NC	10	02/15/13
MW-17	K1301368-009DUP	0.50	0.78	0.68	0.730	13 *	10	02/15/13
MW-25	K1301368-010DUP	0.50	0.53	ND	NC	NC	10	02/15/13
MW-26	K1301368-011DUP	0.50	0.54	0.51	0.525	5	10	02/15/13

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/13
Date Received: 02/15/13
Date Analyzed: 02/15/13

Matrix Spike Summary
Carbon, Total Organic

Sample Name: MW-16
Lab Code: K1301368-008
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Matrix Spike
K1301368-008MS

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Carbon, Total Organic	ND	26.5	25.0	106	83-117

Results flagged with an asterisk (*) indicate values outside control criteria.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: N/A
Date Received: N/A
Date Analyzed: 02/15/13

**Duplicate Matrix Spike Summary
 Carbon, Total Organic**

Sample Name: Batch QC
Lab Code: K1301344-005
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301344-005MS		Duplicate Matrix Spike K1301344-005DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Carbon, Total Organic	1.56	27.7	25.0	105	27.6	25.0	104	83-117	<1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: N/A
Date Received: N/A
Date Analyzed: 02/15/13

**Duplicate Matrix Spike Summary
 Carbon, Total Organic**

Sample Name: Batch QC
Lab Code: K1301344-011
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1301344-011MS		Duplicate Matrix Spike K1301344-011DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Carbon, Total Organic	2.31	29.1	25.0	107	28.7	25.0	106	83-117	1	10

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request:K1301368

Date Analyzed:02/15/13

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method: SM 5310 C

Units:mg/L

Basis:NA

Analysis Lot:329425

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1301368-LCS2	23.2	22.7	102	83-117
Lab Control Sample	K1301368-LCS3	23.2	22.7	102	83-117
Lab Control Sample	K1301368-LCS4	23.0	22.7	101	83-117

COLUMBIA ANALYTICAL SERVICES, INC.
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- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services
Project Name: City of Walla Walla Sudbury Road Landfill RI
Project No.:

Service Request: K1301368

<u>Sample Name:</u>	<u>Lab Code:</u>
<u>Batch QC1D</u>	<u>K1301317-003D</u>
<u>Batch QC1S</u>	<u>K1301317-003S</u>
<u>MW-16</u>	<u>K1301368-008DISS</u>
<u>MW-17</u>	<u>K1301368-009DISS</u>
<u>MW-25</u>	<u>K1301368-010DISS</u>
<u>MW-26</u>	<u>K1301368-011DISS</u>
<u>Method Blank</u>	<u>K1301368-MB</u>

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301368
Project No.: NA **Date Collected:** 02/13/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/15/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-16 **Lab Code:** K1301368-008DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/25/13	116000		
Iron	6010C	20.0	1.0	02/18/13	02/25/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/25/13	50600		
Manganese	6010C	5.0	1.0	02/18/13	02/25/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/25/13	7280		
Sodium	6010C	200	1.0	02/18/13	02/25/13	21400		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301368
Project No.: NA **Date Collected:** 02/13/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/15/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-17 **Lab Code:** K1301368-009DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/25/13	112000		
Iron	6010C	20.0	1.0	02/18/13	02/25/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/25/13	49700		
Manganese	6010C	5.0	1.0	02/18/13	02/25/13	6.8		
Potassium	6010C	400	1.0	02/18/13	02/25/13	8050		
Sodium	6010C	200	1.0	02/18/13	02/25/13	30100		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301368
Project No.: NA **Date Collected:** 02/13/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/15/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-25 **Lab Code:** K1301368-010DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/25/13	80200		
Iron	6010C	20.0	1.0	02/18/13	02/25/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/25/13	30400		
Manganese	6010C	5.0	1.0	02/18/13	02/25/13	5.8		
Potassium	6010C	400	1.0	02/18/13	02/25/13	7810		
Sodium	6010C	200	1.0	02/18/13	02/25/13	33000		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301368
Project No.: NA **Date Collected:** 02/13/13
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 02/15/13
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-26 **Lab Code:** K1301368-011DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/25/13	103000		
Iron	6010C	20.0	1.0	02/18/13	02/25/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/25/13	41900		
Manganese	6010C	5.0	1.0	02/18/13	02/25/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/25/13	8650		
Sodium	6010C	200	1.0	02/18/13	02/25/13	35200		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1301368
Project No.: NA **Date Collected:**
Project Name: City of Walla Walla Sudbury Roa **Date Received:**
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: Method Blank **Lab Code:** K1301368-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	02/18/13	02/25/13	50.0	U	
Iron	6010C	20.0	1.0	02/18/13	02/25/13	20.0	U	
Magnesium	6010C	20.0	1.0	02/18/13	02/25/13	20.0	U	
Manganese	6010C	5.0	1.0	02/18/13	02/25/13	5.0	U	
Potassium	6010C	400	1.0	02/18/13	02/25/13	400	U	
Sodium	6010C	200	1.0	02/18/13	02/25/13	200	U	

Comments:

Metals
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SPIKE SAMPLE RECOVERY

Client: Schwyn Environmental Services **Service Request:** K1301368
Project No.: NA **Units:** UG/L
Project Name: City of Walla Walla Sudbury Roa **Basis:** NA
Matrix: WATER

Sample Name: Batch QC1S

Lab Code: K1301317-003S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Calcium	75 - 125	34100		24700		10000.00	94.0		6010C
Iron		16100		15500		1000.00	60.0		6010C
Magnesium	75 - 125	49100		39400		10000.00	97.0		6010C
Manganese	84 - 121	1250		795		500.00	91.0		6010C
Potassium	75 - 125	25600		15600		10000.00	100.0		6010C
Sodium		66700		57100		10000.00	96.0		6010C

An empty field in the Control Limit column indicates the control limit is not applicable

Metals
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 DUPLICATES

Client: Schwyn Environmental Services **Service Request:** K1301368
Project No.: NA **Units:** UG/L
Project Name: City of Walla Walla Sudbury Roa **Basis:** NA
Matrix: WATER

Sample Name: Batch QC1D

Lab Code: K1301317-003D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	24700		24700		0.0		6010C
Iron	20	15500		15600		0.6		6010C
Magnesium	20	39400		38900		1.3		6010C
Manganese	20	795		791		0.5		6010C
Potassium	20	15600		15300		1.9		6010C
Sodium	20	57100		56400		1.2		6010C

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

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LABORATORY CONTROL SAMPLE

Client: Schwyn Environmental Services

Service Request: K1301368

Project No.: NA

Project Name: City of Walla Walla Sudbury Roa

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Calcium	12500	12900	103.2					
Iron	2500	2520	100.8					
Magnesium	12500	12900	103.2					
Manganese	1250	1250	100.0					
Potassium	12500	12700	101.6					
Sodium	12500	12900	103.2					

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-5
Lab Code: K1301368-001
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Chloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	*
Chloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichlorofluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Acetone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Iodomethane	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
Carbon Disulfide	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Methylene Chloride	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Acrylonitrile	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Acetate	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
cis-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
2-Butanone (MEK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Bromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloroform	0.71		0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Carbon Tetrachloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Benzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichloroethene (TCE)	1.9		0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Dibromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromodichloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Toluene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,2-Trichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Tetrachloroethene (PCE)	0.64		0.50	1	02/18/13	02/18/13	KWG1301473	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-5
Lab Code: K1301368-001
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Dibromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Chlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Ethylbenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
m,p-Xylenes	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
o-Xylene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Styrene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromoform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	
1,2,3-Trichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,4-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	73-122	02/18/13	Acceptable
Toluene-d8	93	65-144	02/18/13	Acceptable
4-Bromofluorobenzene	80	68-117	02/18/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-9
Lab Code: K1301368-002
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Chloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	*
Chloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichlorofluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Acetone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Iodomethane	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
Carbon Disulfide	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Methylene Chloride	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Acrylonitrile	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Acetate	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
cis-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
2-Butanone (MEK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Bromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloroform	1.1		0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Carbon Tetrachloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Benzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichloroethene (TCE)	1.6		0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Dibromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromodichloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Toluene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,2-Trichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Tetrachloroethene (PCE)	0.57		0.50	1	02/18/13	02/18/13	KWG1301473	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-9
Lab Code: K1301368-002
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Dibromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Chlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Ethylbenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
m,p-Xylenes	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
o-Xylene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Styrene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromoform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	
1,2,3-Trichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,4-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	113	73-122	02/18/13	Acceptable
Toluene-d8	93	65-144	02/18/13	Acceptable
4-Bromofluorobenzene	78	68-117	02/18/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-10
Lab Code: K1301368-003
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Chloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	*
Chloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichlorofluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Acetone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Iodomethane	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
Carbon Disulfide	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Methylene Chloride	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Acrylonitrile	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Acetate	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
cis-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
2-Butanone (MEK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Bromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloroform	2.1		0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Carbon Tetrachloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Benzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichloroethene (TCE)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Dibromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromodichloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Toluene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,2-Trichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Tetrachloroethene (PCE)	0.71		0.50	1	02/18/13	02/18/13	KWG1301473	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-10
Lab Code: K1301368-003
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Dibromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Chlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Ethylbenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
m,p-Xylenes	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
o-Xylene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Styrene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromoform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	
1,2,3-Trichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,4-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	112	73-122	02/18/13	Acceptable
Toluene-d8	92	65-144	02/18/13	Acceptable
4-Bromofluorobenzene	80	68-117	02/18/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Camp
Lab Code: K1301368-004
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Chloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	*
Chloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichlorofluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Acetone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Iodomethane	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
Carbon Disulfide	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Methylene Chloride	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Acrylonitrile	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Acetate	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
cis-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
2-Butanone (MEK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Bromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloroform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Carbon Tetrachloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Benzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichloroethene (TCE)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Dibromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromodichloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Toluene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,2-Trichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Tetrachloroethene (PCE)	0.53		0.50	1	02/18/13	02/18/13	KWG1301473	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Camp
Lab Code: K1301368-004
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Dibromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Chlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Ethylbenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
m,p-Xylenes	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
o-Xylene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Styrene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromoform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	
1,2,3-Trichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,4-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	111	73-122	02/18/13	Acceptable
Toluene-d8	91	65-144	02/18/13	Acceptable
4-Bromofluorobenzene	79	68-117	02/18/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Schmidt
Lab Code: K1301368-005
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Chloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	*
Chloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichlorofluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Acetone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Iodomethane	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
Carbon Disulfide	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Methylene Chloride	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Acrylonitrile	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Acetate	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
cis-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
2-Butanone (MEK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Bromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloroform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Carbon Tetrachloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Benzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichloroethene (TCE)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Dibromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromodichloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Toluene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,2-Trichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Schmidt
Lab Code: K1301368-005
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Dibromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Chlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Ethylbenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
m,p-Xylenes	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
o-Xylene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Styrene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromoform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	
1,2,3-Trichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,4-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	112	73-122	02/18/13	Acceptable
Toluene-d8	91	65-144	02/18/13	Acceptable
4-Bromofluorobenzene	82	68-117	02/18/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Small
Lab Code: K1301368-006
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Chloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	*
Chloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichlorofluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Acetone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Iodomethane	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
Carbon Disulfide	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Methylene Chloride	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Acrylonitrile	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Acetate	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
cis-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
2-Butanone (MEK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Bromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloroform	0.67		0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Carbon Tetrachloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Benzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichloroethene (TCE)	0.51		0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Dibromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromodichloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Toluene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,2-Trichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Tetrachloroethene (PCE)	1.4		0.50	1	02/18/13	02/18/13	KWG1301473	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Small
Lab Code: K1301368-006
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Dibromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Chlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Ethylbenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
m,p-Xylenes	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
o-Xylene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Styrene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromoform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	
1,2,3-Trichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,4-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	112	73-122	02/18/13	Acceptable
Toluene-d8	92	65-144	02/18/13	Acceptable
4-Bromofluorobenzene	79	68-117	02/18/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Kinman
Lab Code: K1301368-007
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Chloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	*
Chloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichlorofluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Acetone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Iodomethane	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
Carbon Disulfide	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Methylene Chloride	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Acrylonitrile	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Acetate	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
cis-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
2-Butanone (MEK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Bromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloroform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Carbon Tetrachloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Benzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichloroethene (TCE)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Dibromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromodichloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Toluene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,2-Trichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Kinman
Lab Code: K1301368-007
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Dibromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Chlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Ethylbenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
m,p-Xylenes	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
o-Xylene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Styrene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromoform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	
1,2,3-Trichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,4-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	113	73-122	02/18/13	Acceptable
Toluene-d8	92	65-144	02/18/13	Acceptable
4-Bromofluorobenzene	80	68-117	02/18/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1301368-008
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.58		0.50	1	02/18/13	02/18/13	KWG1301473	
Chloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Chloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	*
Chloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichlorofluoromethane	0.94		0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Acetone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Iodomethane	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
Carbon Disulfide	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Methylene Chloride	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Acrylonitrile	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Acetate	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
cis-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
2-Butanone (MEK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Bromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloroform	0.70		0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Carbon Tetrachloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Benzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichloroethene (TCE)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Dibromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromodichloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Toluene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,2-Trichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Tetrachloroethene (PCE)	0.66		0.50	1	02/18/13	02/18/13	KWG1301473	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1301368-008
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Dibromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Chlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Ethylbenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
m,p-Xylenes	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
o-Xylene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Styrene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromoform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	
1,2,3-Trichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,4-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	115	73-122	02/18/13	Acceptable
Toluene-d8	91	65-144	02/18/13	Acceptable
4-Bromofluorobenzene	80	68-117	02/18/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-17
Lab Code: K1301368-009
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Chloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Vinyl Chloride	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromomethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Chloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Trichlorofluoromethane	0.85		0.50	1	02/19/13	02/19/13	KWG1301513	
1,1-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Acetone	ND	U	20	1	02/19/13	02/19/13	KWG1301513	*
Iodomethane	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	*
Carbon Disulfide	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Methylene Chloride	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	
Acrylonitrile	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1-Dichloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Vinyl Acetate	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
2-Butanone (MEK)	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Bromochloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Chloroform	0.73		0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Carbon Tetrachloride	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Benzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Trichloroethene (TCE)	0.64		0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichloropropane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Dibromomethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromodichloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Toluene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,2-Trichloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Tetrachloroethene (PCE)	2.4		0.50	1	02/19/13	02/19/13	KWG1301513	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-17
Lab Code: K1301368-009
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Dibromochloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	
Chlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Ethylbenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
m,p-Xylenes	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
o-Xylene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Styrene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromoform	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/19/13	02/19/13	KWG1301513	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/19/13	02/19/13	KWG1301513	
1,2,3-Trichloropropane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,4-Dichlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	73-122	02/19/13	Acceptable
Toluene-d8	92	65-144	02/19/13	Acceptable
4-Bromofluorobenzene	79	68-117	02/19/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-25
Lab Code: K1301368-010
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Chloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Vinyl Chloride	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromomethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Chloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Trichlorofluoromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Acetone	ND	U	20	1	02/19/13	02/19/13	KWG1301513	*
Iodomethane	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	*
Carbon Disulfide	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Methylene Chloride	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	
Acrylonitrile	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1-Dichloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Vinyl Acetate	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
2-Butanone (MEK)	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Bromochloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Chloroform	1.6		0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Carbon Tetrachloride	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Benzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Trichloroethene (TCE)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichloropropane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Dibromomethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromodichloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Toluene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,2-Trichloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Tetrachloroethene (PCE)	0.53		0.50	1	02/19/13	02/19/13	KWG1301513	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-25
Lab Code: K1301368-010
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Dibromochloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	
Chlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Ethylbenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
m,p-Xylenes	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
o-Xylene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Styrene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromoform	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/19/13	02/19/13	KWG1301513	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/19/13	02/19/13	KWG1301513	
1,2,3-Trichloropropane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,4-Dichlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	73-122	02/19/13	Acceptable
Toluene-d8	92	65-144	02/19/13	Acceptable
4-Bromofluorobenzene	79	68-117	02/19/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-26
Lab Code: K1301368-011
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.70		0.50	1	02/19/13	02/19/13	KWG1301513	
Chloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Vinyl Chloride	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromomethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Chloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Trichlorofluoromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Acetone	ND	U	20	1	02/19/13	02/19/13	KWG1301513	*
Iodomethane	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	*
Carbon Disulfide	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Methylene Chloride	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	
Acrylonitrile	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1-Dichloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Vinyl Acetate	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
2-Butanone (MEK)	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Bromochloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Chloroform	1.4		0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Carbon Tetrachloride	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Benzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Trichloroethene (TCE)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichloropropane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Dibromomethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromodichloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Toluene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,2-Trichloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Tetrachloroethene (PCE)	1.2		0.50	1	02/19/13	02/19/13	KWG1301513	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-26
Lab Code: K1301368-011
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Dibromochloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	
Chlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Ethylbenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
m,p-Xylenes	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
o-Xylene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Styrene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromoform	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/19/13	02/19/13	KWG1301513	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/19/13	02/19/13	KWG1301513	
1,2,3-Trichloropropane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,4-Dichlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	73-122	02/19/13	Acceptable
Toluene-d8	93	65-144	02/19/13	Acceptable
4-Bromofluorobenzene	80	68-117	02/19/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1301473-4
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Chloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	*
Chloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichlorofluoromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Acetone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Iodomethane	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
Carbon Disulfide	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Methylene Chloride	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Acrylonitrile	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1-Dichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Vinyl Acetate	ND	U	5.0	1	02/18/13	02/18/13	KWG1301473	*
cis-1,2-Dichloroethene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
2-Butanone (MEK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Bromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Chloroform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Carbon Tetrachloride	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Benzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Trichloroethene (TCE)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Dibromomethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromodichloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Toluene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,2-Trichloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1301473-4
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/18/13	02/18/13	KWG1301473	
Dibromochloromethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	
Chlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Ethylbenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
m,p-Xylenes	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
o-Xylene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Styrene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
Bromoform	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/18/13	02/18/13	KWG1301473	
1,2,3-Trichloropropane	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,4-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dichlorobenzene	ND	U	0.50	1	02/18/13	02/18/13	KWG1301473	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/18/13	02/18/13	KWG1301473	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	73-122	02/18/13	Acceptable
Toluene-d8	92	65-144	02/18/13	Acceptable
4-Bromofluorobenzene	82	68-117	02/18/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1301513-4
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Chloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Vinyl Chloride	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromomethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Chloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Trichlorofluoromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Acetone	ND	U	20	1	02/19/13	02/19/13	KWG1301513	*
Iodomethane	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	*
Carbon Disulfide	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Methylene Chloride	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	
Acrylonitrile	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	
trans-1,2-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1-Dichloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Vinyl Acetate	ND	U	5.0	1	02/19/13	02/19/13	KWG1301513	
cis-1,2-Dichloroethene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
2-Butanone (MEK)	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Bromochloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Chloroform	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Carbon Tetrachloride	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Benzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Trichloroethene (TCE)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichloropropane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Dibromomethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromodichloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
cis-1,3-Dichloropropene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Toluene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
trans-1,3-Dichloropropene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,2-Trichloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Tetrachloroethene (PCE)	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1301513-4
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2-Hexanone	ND	U	20	1	02/19/13	02/19/13	KWG1301513	
Dibromochloromethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	
Chlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Ethylbenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
m,p-Xylenes	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
o-Xylene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Styrene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
Bromoform	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
cis-1,4-Dichloro-2-butene	ND	U	10	1	02/19/13	02/19/13	KWG1301513	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
trans-1,4-Dichloro-2-butene	ND	U	10	1	02/19/13	02/19/13	KWG1301513	
1,2,3-Trichloropropane	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,4-Dichlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dichlorobenzene	ND	U	0.50	1	02/19/13	02/19/13	KWG1301513	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	02/19/13	02/19/13	KWG1301513	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	73-122	02/19/13	Acceptable
Toluene-d8	93	65-144	02/19/13	Acceptable
4-Bromofluorobenzene	80	68-117	02/19/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368

**Surrogate Recovery Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
MW-5	K1301368-001	108	93	80
MW-9	K1301368-002	113	93	78
MW-10	K1301368-003	112	92	80
Camp	K1301368-004	111	91	79
Schmidt	K1301368-005	112	91	82
Small	K1301368-006	112	92	79
Kinman	K1301368-007	113	92	80
MW-16	K1301368-008	115	91	80
MW-17	K1301368-009	109	92	79
MW-25	K1301368-010	109	92	79
MW-26	K1301368-011	110	93	80
Batch QC	K1301401-004	108	92	80
Method Blank	KWG1301473-4	103	92	82
Method Blank	KWG1301513-4	105	93	80
Batch QCMS	KWG1301473-1	97	100	100
Batch QCDMS	KWG1301473-2	96	101	99
Lab Control Sample	KWG1301473-3	95	101	100
Lab Control Sample	KWG1301513-3	99	101	99

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	73-122
Sur2 = Toluene-d8	65-144
Sur3 = 4-Bromofluorobenzene	68-117

Results flagged with an asterisk (*) indicate values outside control criteria.
 Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Extracted: 02/18/2013
Date Analyzed: 02/18/2013

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: Batch QC
Lab Code: K1301401-004
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1301473

Analyte Name	Sample Result	Batch QCMS KWG1301473-1 Matrix Spike			Batch QCDMS KWG1301473-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	10.1	10.0	101	9.75	10.0	98	49-136	3	30
1,1-Dichloroethene	ND	12.4	10.0	124	12.2	10.0	122	59-171	2	30
Chloroform	7.8	17.0	10.0	92	16.8	10.0	90	64-133	2	30
Carbon Tetrachloride	ND	9.65	10.0	97	9.47	10.0	95	53-161	2	30
Benzene	ND	10.3	10.0	103	10.2	10.0	102	63-144	1	30
Trichloroethene (TCE)	1.2	10.7	10.0	95	11.0	10.0	98	53-139	3	30
Bromodichloromethane	ND	10.8	10.0	108	10.7	10.0	107	61-134	1	30
Toluene	ND	10.5	10.0	105	10.3	10.0	103	71-136	2	30
1,1,2-Trichloroethane	ND	11.1	10.0	111	11.0	10.0	110	74-124	0	30
2-Hexanone	ND	53.0	50.0	106	54.0	50.0	108	53-132	2	30
Chlorobenzene	ND	10.2	10.0	102	10.1	10.0	101	69-126	1	30
Ethylbenzene	ND	10.5	10.0	105	10.3	10.0	103	66-136	2	30
1,2,3-Trichloropropane	ND	10.5	10.0	105	10.6	10.0	106	71-127	1	30
1,2-Dichlorobenzene	ND	10.3	10.0	103	10.5	10.0	105	72-119	2	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Extracted: 02/18/2013
Date Analyzed: 02/18/2013

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1301473

Lab Control Sample
 KWG1301473-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	7.24	10.0	72	32-124
Chloromethane	11.1	10.0	111	34-130
Vinyl Chloride	9.56	10.0	96	55-123
Bromomethane	8.19	10.0	82	35-113
Chloroethane	11.6	10.0	116	58-134
Trichlorofluoromethane	8.88	10.0	89	52-141
1,1-Dichloroethene	12.5	10.0	125	66-129
Acetone	64.3	50.0	129	68-135
Iodomethane	20.3	30.0	68	51-164
Carbon Disulfide	24.2	20.0	121	46-144
Methylene Chloride	10.3	10.0	103	71-122
Acrylonitrile	41.4	40.0	103	65-129
trans-1,2-Dichloroethene	10.9	10.0	109	67-125
1,1-Dichloroethane	10.8	10.0	108	68-132
Vinyl Acetate	47.3	50.0	95	44-156
cis-1,2-Dichloroethene	10.4	10.0	104	71-118
2-Butanone (MEK)	51.9	50.0	104	71-149
Bromochloromethane	10.5	10.0	105	75-131
Chloroform	10.7	10.0	107	70-129
1,1,1-Trichloroethane (TCA)	9.69	10.0	97	59-136
Carbon Tetrachloride	9.65	10.0	97	55-140
Benzene	10.4	10.0	104	69-124
1,2-Dichloroethane (EDC)	10.2	10.0	102	56-142
Trichloroethene (TCE)	9.88	10.0	99	67-128
1,2-Dichloropropane	10.9	10.0	109	67-126
Dibromomethane	10.3	10.0	103	69-128
Bromodichloromethane	10.6	10.0	106	63-129
cis-1,3-Dichloropropene	8.60	10.0	86	62-132
4-Methyl-2-pentanone (MIBK)	48.0	50.0	96	64-134
Toluene	10.3	10.0	103	69-124
trans-1,3-Dichloropropene	10.1	10.0	101	59-125
1,1,2-Trichloroethane	10.5	10.0	105	74-118
Tetrachloroethene (PCE)	9.25	10.0	93	62-126
2-Hexanone	47.6	50.0	95	59-131
Dibromochloromethane	9.37	10.0	94	67-126

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Extracted: 02/18/2013
Date Analyzed: 02/18/2013

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1301473

Lab Control Sample
 KWG1301473-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	10.0	10.0	100	74-118
Chlorobenzene	10.2	10.0	102	72-116
Ethylbenzene	10.2	10.0	102	67-121
1,1,1,2-Tetrachloroethane	9.76	10.0	98	66-124
m,p-Xylenes	21.5	20.0	108	69-121
o-Xylene	10.4	10.0	104	71-119
Styrene	10.5	10.0	105	74-121
Bromoform	8.67	10.0	87	52-144
cis-1,4-Dichloro-2-butene	22.9	30.0	76	26-171
1,1,2,2-Tetrachloroethane	10.6	10.0	106	70-127
trans-1,4-Dichloro-2-butene	28.1	30.0	94	46-170
1,2,3-Trichloropropane	9.94	10.0	99	69-123
1,4-Dichlorobenzene	10.3	10.0	103	73-115
1,2-Dichlorobenzene	10.3	10.0	103	72-115
1,2-Dibromo-3-chloropropane	9.67	10.0	97	55-132

Results flagged with an asterisk (*) indicate values outside control criteria.

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Extracted: 02/19/2013
Date Analyzed: 02/19/2013

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1301513

Lab Control Sample
 KWG1301513-3
 Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	7.92	10.0	79	32-124
Chloromethane	12.6	10.0	126	34-130
Vinyl Chloride	10.4	10.0	104	55-123
Bromomethane	10.7	10.0	107	35-113
Chloroethane	12.6	10.0	126	58-134
Trichlorofluoromethane	9.52	10.0	95	52-141
1,1-Dichloroethene	12.9	10.0	129	66-129
Acetone	67.8	50.0	136 *	68-135
Iodomethane	22.9	30.0	76	51-164
Carbon Disulfide	26.0	20.0	130	46-144
Methylene Chloride	10.8	10.0	108	71-122
Acrylonitrile	43.6	40.0	109	65-129
trans-1,2-Dichloroethene	11.5	10.0	115	67-125
1,1-Dichloroethane	11.7	10.0	117	68-132
Vinyl Acetate	49.3	50.0	99	44-156
cis-1,2-Dichloroethene	10.6	10.0	106	71-118
2-Butanone (MEK)	52.3	50.0	105	71-149
Bromochloromethane	10.8	10.0	108	75-131
Chloroform	11.5	10.0	115	70-129
1,1,1-Trichloroethane (TCA)	10.6	10.0	106	59-136
Carbon Tetrachloride	10.5	10.0	105	55-140
Benzene	10.9	10.0	109	69-124
1,2-Dichloroethane (EDC)	10.8	10.0	108	56-142
Trichloroethene (TCE)	10.2	10.0	102	67-128
1,2-Dichloropropane	11.4	10.0	114	67-126
Dibromomethane	10.4	10.0	104	69-128
Bromodichloromethane	10.7	10.0	107	63-129
cis-1,3-Dichloropropene	8.84	10.0	88	62-132
4-Methyl-2-pentanone (MIBK)	48.6	50.0	97	64-134
Toluene	10.9	10.0	109	69-124
trans-1,3-Dichloropropene	10.3	10.0	103	59-125
1,1,2-Trichloroethane	10.7	10.0	107	74-118
Tetrachloroethene (PCE)	9.70	10.0	97	62-126
2-Hexanone	46.5	50.0	93	59-131
Dibromochloromethane	9.06	10.0	91	67-126

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Extracted: 02/19/2013
Date Analyzed: 02/19/2013

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1301513

Lab Control Sample
 KWG1301513-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	9.63	10.0	96	74-118
Chlorobenzene	10.2	10.0	102	72-116
Ethylbenzene	10.5	10.0	105	67-121
1,1,1,2-Tetrachloroethane	9.74	10.0	97	66-124
m,p-Xylenes	22.1	20.0	111	69-121
o-Xylene	10.4	10.0	104	71-119
Styrene	10.2	10.0	102	74-121
Bromoform	8.16	10.0	82	52-144
cis-1,4-Dichloro-2-butene	22.7	30.0	76	26-171
1,1,2,2-Tetrachloroethane	10.8	10.0	108	70-127
trans-1,4-Dichloro-2-butene	29.1	30.0	97	46-170
1,2,3-Trichloropropane	9.79	10.0	98	69-123
1,4-Dichlorobenzene	10.4	10.0	104	73-115
1,2-Dichlorobenzene	10.4	10.0	104	72-115
1,2-Dibromo-3-chloropropane	8.79	10.0	88	55-132

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-5
Lab Code: K1301368-001
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	113	77-123	02/21/13	Acceptable
Toluene-d8	97	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	83	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-9 **Units:** ng/L
Lab Code: K1301368-002 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	114	77-123	02/21/13	Acceptable
Toluene-d8	97	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	84	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-10 **Units:** ng/L
Lab Code: K1301368-003 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	114	77-123	02/21/13	Acceptable
Toluene-d8	96	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	85	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Camp
Lab Code: K1301368-004
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	115	77-123	02/22/13	Acceptable
Toluene-d8	96	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	85	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Schmidt
Lab Code: K1301368-005
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	113	77-123	02/22/13	Acceptable
Toluene-d8	96	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	85	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Small
Lab Code: K1301368-006
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	116	77-123	02/22/13	Acceptable
Toluene-d8	95	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	85	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: Kinman **Units:** ng/L
Lab Code: K1301368-007 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	77-123	02/22/13	Acceptable
Toluene-d8	95	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1301368-008
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	02/22/13	Acceptable
Toluene-d8	95	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-17
Lab Code: K1301368-009
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	02/22/13	Acceptable
Toluene-d8	95	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	83	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-25 **Units:** ng/L
Lab Code: K1301368-010 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	02/22/13	Acceptable
Toluene-d8	94	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	83	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: 02/13/2013
Date Received: 02/15/2013

Volatile Organic Compounds

Sample Name: MW-26 **Units:** ng/L
Lab Code: K1301368-011 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	02/22/13	Acceptable
Toluene-d8	94	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	82	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** ng/L
Lab Code: KWG1301617-4 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/21/13	02/21/13	KWG1301617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	77-123	02/21/13	Acceptable
Toluene-d8	98	74-112	02/21/13	Acceptable
4-Bromofluorobenzene	84	46-118	02/21/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** ng/L
Lab Code: KWG1301636-4 **Basis:** NA
Extraction Method: EPA 5030B **Level:** Low
Analysis Method: 8260C SIM

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	02/22/13	02/22/13	KWG1301636	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	101	77-123	02/22/13	Acceptable
Toluene-d8	99	74-112	02/22/13	Acceptable
4-Bromofluorobenzene	84	46-118	02/22/13	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368

**Surrogate Recovery Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
Batch QC	K1301334-001	106	96	82
MW-5	K1301368-001	113	97	83
MW-9	K1301368-002	114	97	84
MW-10	K1301368-003	114	96	85
Camp	K1301368-004	115	96	85
Schmidt	K1301368-005	113	96	85
Small	K1301368-006	116	95	85
Kinman	K1301368-007	107	95	82
MW-16	K1301368-008	108	95	82
MW-17	K1301368-009	108	95	83
MW-25	K1301368-010	108	94	83
MW-26	K1301368-011	108	94	82
Method Blank	KWG1301617-4	93	98	84
Method Blank	KWG1301636-4	101	99	84
Batch QCMS	KWG1301636-1	95	103	115
Batch QCDMS	KWG1301636-2	94	104	115
Lab Control Sample	KWG1301617-3	90	101	116
Lab Control Sample	KWG1301636-3	95	103	118

Surrogate Recovery Control Limits (%)

Sur1 = Dibromofluoromethane	77-123
Sur2 = Toluene-d8	74-112
Sur3 = 4-Bromofluorobenzene	46-118

Results flagged with an asterisk (*) indicate values outside control criteria.
 Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Extracted: 02/22/2013
Date Analyzed: 02/22/2013

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: Batch QC
Lab Code: K1301334-001
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1301636

Analyte Name	Sample Result	Batch QCMS KWG1301636-1 Matrix Spike			Batch QCDMS KWG1301636-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	1860	2000	93	1740	2000	87	70-130	7	30

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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Extracted: 02/21/2013
Date Analyzed: 02/21/2013

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1301617

Lab Control Sample
KWG1301617-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	1860	2000	93	70-136

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1301368
Date Extracted: 02/22/2013
Date Analyzed: 02/22/2013

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1301636

Lab Control Sample
KWG1301636-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2040	2000	102	70-136

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.