



October 5, 2012

Analytical Report for Service Request No: K1209358

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

RE: Sudbury Landfill Remedial Investigation

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on September 19, 2012. For your reference, these analyses have been assigned our service request number K1209358.

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 3291. You may also contact me via Email at Ed.Wallace@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Ed Wallace
Project Manager

EW/ln

Page 1 of 131



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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
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request No.: K1209358
Date Received: 09/19/12

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: Matrix Spike (MS), and Laboratory Control Sample (LCS).

Sample Receipt

Eighteen water samples were received for analysis at ALS Environmental on 09/19/12. No discrepancies were noted upon initial sample inspection. 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

Nitrate as Nitrogen by EPA Method 300.0:

Samples MW-14b, MW-12b, MW-16 and MW-25 were received with insufficient holding time remaining. The analysis was performed as soon as possible after receipt by the laboratory. The data was flagged to indicate the holding time violation.

Total Organic Carbon by Standard Method 5310 C:

The Relative Percent Difference (RPD) criterion for the replicate analyses of Total Organic Carbon in samples MW-12b, MW-16, MW-17, D23, MW-24, MW-25 and D-26 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.

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.

Volatile Organic Compounds by EPA Method 8260

Calibration Verification Exceptions:

The following analytes were flagged as outside the lower control criterion for Continuing Calibration Verification (CCV) MS27\0925F003.D and 0927F003.D: Bromoform. In accordance with the EPA Method 8260C, 80% or more of the CCV analytes must have passed within 20% of the true value. The remaining analytes are allowed a 40% difference as per the CAS SOP. The CCV met these criteria.

The following analytes were flagged as outside the lower control criterion for Continuing Calibration Verification (CCV) MS04\0923F003.D: Bromomethane. In accordance with the EPA Method 8260C, 80% or more of the CCV

Approved by Ed Walker

analytes must have passed within 20% of the true value. The remaining analytes are allowed a 40% difference as per the CAS SOP. The CCV met these criteria.

The following analytes were flagged as outside the upper control criterion for Continuing Calibration Verification (CCV) MS04\0923F003.D: Vinyl Acetate. In accordance with the EPA Method 8260C, 80% or more of the CCV analytes must have passed within 20% of the true value. The remaining analytes are allowed a 40% difference as per the CAS SOP. The CCV met these criteria.

Lab Control Sample Exceptions:

The upper control criterion was exceeded for Vinyl Acetate in Laboratory Control Sample (LCS) KWG1211169-3. The analyte in question was not detected in the associated field samples. The error associated with elevated recovery indicated a high bias. The sample data was not significantly affected. No further corrective action was appropriate.

Surrogate Exceptions:

The control criteria were exceeded for Toluene-d8 in MW-12bMS, MW12bDMS and Lab Control Sample KWG1211189-3. The associated matrix spike recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier was flagged accordingly. No further corrective action was appropriate.

Approved by Ed Wallace

Columbia Analytical Services

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SR# K1209866

PAGE 1 OF 2

Project Name: City of Walla Walla Sudbury Road Landfill Remedial Investigation					Number of Containers	Analysis Requested						REMARKS
Project Manager: Craig Schwyn						VOCs (8260B special list)	Vinyl Chloride by 8260 SIM	[Chloride, Nitrate, Sulfate (Method 300.0)] [Ca, Fe, Mg, Mn, K, Na (Method 6010C)] [Alkalinity (Method 2320B)] [Ammonia (SM 4500)] [TOC (Method 415.1)] [TDS (SM 2540C)]	(see below)	MS/MSD		
Sample I.D.	Date	Time	LAB ID	Matrix								
MW-5	9/18/12	10:45		water	6	X	X					
MW-9	9/18/12	12:00		water	6	X	X					
MW-10	9/18/12	12:05			6	X	X					
MW-11	9/18/12	8:30			10	X	X	X				
MW-14b	9/17/12	12:15			10	X	X	X				
MW-12b	9/17/12	11:50			20	X	X	X		X		
MW-16	9/17/12	13:00			10	X	X	X				
MW-17	9/17/12	14:20			10	X	X	X				
MW-21S	9/18/12	9:10			10	X	X	X				
MW-21D	9/18/12	9:50			10	X	X	X				
MW-23	9/17/12	5:00			10	X	X	X				
MW-23 D23	9/17/12	5:10			10	X	X	X				

Shipped in three coolers

URNAROUND REQUIREMENTS <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 5 day <input checked="" type="checkbox"/> Standard (21 days) <input type="checkbox"/> Provide FAX Preliminary Results Requested Report Date: _____		REPORT REQUIREMENTS I. Routine Report: Results, Method Blank Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required III. Data Validation Report (includes raw data) IV. CLP Deliverable Report <input checked="" type="checkbox"/> V. EDD		Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C	
Invoice Information P.O. # _____ Bill to: Schwyn Environmental Services					

RELINQUISHED BY: Signature: <u>Craig Schwyn</u> Printed Name: Craig Schwyn Firm: Schwyn Environmental Services Date/Time: <u>9/18/12 1400</u>	RECEIVED BY: Signature: <u>URS</u> Printed Name: _____ Firm: _____ Date/Time: <u>9/18/12 1400</u>	RELINQUISHED BY: Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	RECEIVED BY: Signature: <u>J. Juell</u> Printed Name: <u>J. Juell</u> Firm: <u>MS</u> Date/Time: <u>9/19/12 1010</u>
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Columbia Analytical Services

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SR# K1209958
PAGE 2 OF 2

Project Name: City of Walla Walla Sudbury Road Landfill Remedial Investigation					Analysis Requested														
Project Manager: Craig Schwyn					Number of Containers	VOCs (8260B special list)	Vinyl Chloride by 8260 SIM	[Chloride, Nitrate, Sulfate (Method 300.0)]	[Ca, Fe, Mg, Mn, K, Na (Method 6010C)]	[Alkalinity (Method 2320B)]	[Ammonia (SM 4500)]	[TOC (Method 415.1)]	[TDS (SM 2540C)]	Dissolved Metals (see below)	MS/MSD	REMARKS			
Company: Schwyn Environmental Services 4621 South Custer Court Spokane, Washington 99223 509-448-3187: Craig@schwynenviro.com																			
Sampler's Signature: <u>Craig Schwyn</u>					Shipped in 3 coolers														
Sample I.D.	Date	Time	LAB ID	Matrix															
MW-24	9/17/12	1630		Water	10	X	X	X											
MW-25	9/17/12	1140		↓	10	X	X	X											
MW-26	9/17/12	1330		↓	10	X	X	X											
D-26	9/17/12	1340		↓	10	X	X	X											
Trip Blank				↓	2	X	X												
MW-27	9/17/12	1800		↓	10	X	X	X											
URNAROUND REQUIREMENTS <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 5 day <input checked="" type="checkbox"/> Standard (21 days) <input type="checkbox"/> Provide FAX Preliminary Results Requested Report Date: _____					REPORT REQUIREMENTS <input type="checkbox"/> I. Routine Report: Results, Method Blank Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required <input type="checkbox"/> III. Data Validation Report (includes raw data) <input type="checkbox"/> IV. CLP Deliverable Report <input checked="" type="checkbox"/> V. EDD					Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C									
Invoice Information P.O. # _____ Bill to: Schwyn Environmental Services																			
RELINQUISHED BY: Signature: _____ Printed Name: Craig Schwyn Firm: Schwyn Environmental Services Date/Time: _____					RECEIVED BY: Signature: <u>VPS</u> Printed Name: _____ Firm: _____ Date/Time: <u>9/18/12 1400</u>					RELINQUISHED BY: Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____					RECEIVED BY: Signature: <u>[Signature]</u> Printed Name: <u>JUEL</u> Firm: <u>AS</u> Date/Time: <u>9/19/12 1010</u>				



Ed
Lishaj
PC

Cooler Receipt and Preservation Form

Client / Project: C. of Wala Wala Service Request K12 9358
Received: 9/19/12 Opened: 9/19/12 By: aj Unloaded: 9/19/12 By: aj

- Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
- Samples were received in: (circle) Cooler Box Envelope Other _____ NA
- 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

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number	NA	Filed
-0.9	0.4	316	VOAS	12339 9W8231000 0050		
-1.0	NA	318		12339 9W8231000 0069		
4.7	NA	300		12339 9W8231000 0041		

- Packing material: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Dry Ice Sleeves _____
- Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA Y N
- Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
- Did all sample labels and tags agree with custody papers? Indicate major discrepancies in the table on page 2. NA Y N
- Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below. NA Y N
- Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 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:
metals bottles are field filtered. SHORT HOLD TIME

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209358
Date Collected: 09/17/12 - 09/18/12
Date Received: 09/19/12
Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1209358-004	88.0	4.0	20	09/19/12 15:41	
MW-14b	K1209358-005	147	4.0	20	09/19/12 15:53	
MW-12b	K1209358-006	140	4.0	20	09/19/12 16:05	
MW-16	K1209358-007	146	4.0	20	09/19/12 13:39	
MW-17	K1209358-008	142	4.0	20	09/19/12 13:26	
MW-21S	K1209358-009	146	4.0	20	09/19/12 15:16	
MW-21D	K1209358-010	155	4.0	20	09/19/12 15:28	
MW-23	K1209358-011	125	4.0	20	09/19/12 14:15	
D23	K1209358-012	124	4.0	20	09/19/12 14:27	
MW-24	K1209358-013	104	4.0	20	09/19/12 14:03	
MW-25	K1209358-014	64.1	4.0	20	09/19/12 16:17	
MW-26	K1209358-015	104	4.0	20	09/19/12 12:37	
D-26	K1209358-016	105	4.0	20	09/19/12 12:50	
MW-27	K1209358-018	131	4.0	20	09/19/12 15:04	
Method Blank	K1209358-MB1	ND U	0.20	1	09/19/12 06:59	
Method Blank	K1209358-MB2	ND U	0.20	1	09/19/12 17:31	

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QA/QC Report

Client: Schwyn Environmental Services
Project Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
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-12b	K1209358-006DUP24	4.0	140	142	141	1	20	09/19/12
MW-26	K1209358-015DUP33	4.0	104	106	105	2	20	09/19/12

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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
Date Analyzed: 09/19/12

**Duplicate Matrix Spike Summary
 Chloride**

Sample Name: MW-12b
Lab Code: K1209358-006
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209358-006MS6		Duplicate Matrix Spike K1209358-006DMS6		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	140	245	100	105	244	100	104	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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
Date Analyzed: 09/19/12

**Duplicate Matrix Spike Summary
 Chloride**

Sample Name: MW-26
Lab Code: K1209358-015
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209358-015MS8		Duplicate Matrix Spike K1209358-015DMS8		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	104	210	100	105	207	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.

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QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Analyzed: 09/19/12

Lab Control Sample Summary
Chloride

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 310072

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209358-LCS1	4.88	5.00	98	90-110
Lab Control Sample	K1209358-LCS2	4.88	5.00	98	90-110

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Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209358
Date Collected: 09/17/12 - 09/18/12
Date Received: 09/19/12
Units: mg/L
Basis: NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1209358-004	8.0	1.0	20	09/19/12 15:41	
MW-14b	K1209358-005	8.7	1.0	20	09/19/12 15:53	*
MW-12b	K1209358-006	9.4	1.0	20	09/19/12 16:05	*
MW-16	K1209358-007	8.4	1.0	20	09/19/12 13:39	*
MW-17	K1209358-008	9.9	1.0	20	09/19/12 13:26	
MW-21S	K1209358-009	9.6	1.0	20	09/19/12 15:16	
MW-21D	K1209358-010	10.4	1.0	20	09/19/12 15:28	
MW-23	K1209358-011	10.2	1.0	20	09/19/12 14:15	
D23	K1209358-012	10.2	1.0	20	09/19/12 14:27	
MW-24	K1209358-013	10.2	1.0	20	09/19/12 14:03	
MW-25	K1209358-014	9.6	1.0	20	09/19/12 16:17	*
MW-26	K1209358-015	8.0	1.0	20	09/19/12 12:37	
D-26	K1209358-016	8.0	1.0	20	09/19/12 12:50	
MW-27	K1209358-018	10.2	1.0	20	09/19/12 15:04	
Method Blank	K1209358-MB1	ND U	0.050	1	09/19/12 06:59	
Method Blank	K1209358-MB2	ND U	0.050	1	09/19/12 17:31	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
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-12b	K1209358-006DUP24	1.0	9.4	9.5	9.43	<1	20	09/19/12
MW-26	K1209358-015DUP33	1.0	8.0	8.2	8.06	3	20	09/19/12

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
Date Analyzed: 09/19/12

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: MW-12b
Lab Code: K1209358-006
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209358-006MS6		Result	Duplicate Matrix Spike K1209358-006DMS6		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Nitrate as Nitrogen	9.4	112	100	102	111	100	102	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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
Date Analyzed: 09/19/12

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: MW-26
Lab Code: K1209358-015
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209358-015MS8		Duplicate Matrix Spike K1209358-015DMS8		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	8.0	110	100	102	110	100	102	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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Analyzed: 09/19/12

Lab Control Sample Summary
Nitrate as Nitrogen

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 310072

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209358-LCS1	18.3	17.7	103	90-110
Lab Control Sample	K1209358-LCS2	18.2	17.7	103	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209358
Date Collected: 09/17/12 - 09/18/12
Date Received: 09/19/12
Units: mg/L
Basis: NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1209358-004	30.5	2.0	20	09/19/12 15:41	
MW-14b	K1209358-005	41.0	2.0	20	09/19/12 15:53	
MW-12b	K1209358-006	36.2	2.0	20	09/19/12 16:05	
MW-16	K1209358-007	37.7	2.0	20	09/19/12 13:39	
MW-17	K1209358-008	31.2	2.0	20	09/19/12 13:26	
MW-21S	K1209358-009	35.7	2.0	20	09/19/12 15:16	
MW-21D	K1209358-010	34.2	2.0	20	09/19/12 15:28	
MW-23	K1209358-011	33.2	2.0	20	09/19/12 14:15	
D23	K1209358-012	33.4	2.0	20	09/19/12 14:27	
MW-24	K1209358-013	32.5	2.0	20	09/19/12 14:03	
MW-25	K1209358-014	26.9	2.0	20	09/19/12 16:17	
MW-26	K1209358-015	31.1	2.0	20	09/19/12 12:37	
D-26	K1209358-016	31.3	2.0	20	09/19/12 12:50	
MW-27	K1209358-018	32.5	2.0	20	09/19/12 15:04	
Method Blank	K1209358-MB1	ND U	0.10	1	09/19/12 06:59	
Method Blank	K1209358-MB2	ND U	0.10	1	09/19/12 17:31	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
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-12b	K1209358-006DUP24	2.0	36.2	36.8	36.5	2	20	09/19/12
MW-26	K1209358-015DUP33	2.0	31.1	31.1	31.1	<1	20	09/19/12

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
Date Analyzed: 09/19/12

**Duplicate Matrix Spike Summary
Sulfate**

Sample Name: MW-12b
Lab Code: K1209358-006
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209358-006MS6		Duplicate Matrix Spike K1209358-006DMS6		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	36.2	141	100	105	143	100	107	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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
Date Analyzed: 09/19/12

Duplicate Matrix Spike Summary
Sulfate

Sample Name: MW-26
Lab Code: K1209358-015
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209358-015MS8		Duplicate Matrix Spike K1209358-015DMS8		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	31.1	136	100	105	137	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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Analyzed: 09/19/12

Lab Control Sample Summary
Sulfate

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 310072

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209358-LCS1	5.05	5.00	101	90-110
Lab Control Sample	K1209358-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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: SM 2320 B

Service Request: K1209358
Date Collected: 09/17/12 - 09/18/12
Date Received: 09/19/12
Units: mg/L
Basis: NA

Alkalinity as CaCO3, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1209358-004	268	9.0	1	09/25/12 10:41	
MW-14b	K1209358-005	286	9.0	1	09/25/12 10:41	
MW-12b	K1209358-006	271	9.0	1	09/25/12 10:41	
MW-16	K1209358-007	278	9.0	1	09/25/12 10:41	
MW-17	K1209358-008	297	9.0	1	09/25/12 10:41	
MW-21S	K1209358-009	297	9.0	1	09/25/12 10:41	
MW-21D	K1209358-010	294	9.0	1	09/25/12 10:41	
MW-23	K1209358-011	291	9.0	1	09/25/12 10:41	
D23	K1209358-012	292	9.0	1	09/25/12 10:41	
MW-24	K1209358-013	281	9.0	1	09/25/12 10:41	
MW-25	K1209358-014	224	9.0	1	09/25/12 10:41	
MW-26	K1209358-015	305	9.0	1	09/25/12 10:41	
D-26	K1209358-016	313	9.0	1	09/25/12 10:41	
MW-27	K1209358-018	287	9.0	1	09/25/12 10:41	
Method Blank	K1209358-MB1	ND U	9.0	1	09/25/12 10:41	
Method Blank	K1209358-MB2	ND U	9.0	1	09/25/12 10:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: SM 2320 B

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
Units: mg/L
Basis: NA

Duplicate Sample Summary
Alkalinity as CaCO3, Total

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-12b	K1209358-006DUP24	9.0	271	276	274	2	20	09/25/12
D-26	K1209358-016DUP34	9.0	313	311	312	<1	20	09/25/12

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Analyzed: 09/25/12

Lab Control Sample Summary
Alkalinity as CaCO₃, Total

Analysis Method: SM 2320 B

Units: mg/L

Basis: NA

Analysis Lot: 310945

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209358-LCS1	39.1	37.1	106	90-110
Lab Control Sample	K1209358-LCS2	38.7	37.1	104	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: SM 2540 C

Service Request: K1209358
Date Collected: 09/17/12 - 09/18/12
Date Received: 09/19/12
Units: mg/L
Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1209358-004	583	10	1	09/21/12 16:00	
MW-14b	K1209358-005	677	13	1	09/21/12 16:00	
MW-12b	K1209358-006	699	13	1	09/21/12 16:00	
MW-16	K1209358-007	687	13	1	09/21/12 16:00	
MW-17	K1209358-008	676	13	1	09/21/12 16:00	
MW-21S	K1209358-009	749	13	1	09/21/12 16:00	
MW-21D	K1209358-010	713	13	1	09/21/12 16:00	
MW-23	K1209358-011	705	13	1	09/21/12 16:00	
D23	K1209358-012	677	13	1	09/21/12 16:00	
MW-24	K1209358-013	647	13	1	09/21/12 16:00	
MW-25	K1209358-014	477	10	1	09/21/12 16:00	
MW-26	K1209358-015	613	13	1	09/21/12 16:00	
D-26	K1209358-016	656	13	1	09/21/12 16:00	
MW-27	K1209358-018	665	13	1	09/21/12 16:00	
Method Blank	K1209358-MB1	ND U	5.0	1	09/21/12 16:00	
Method Blank	K1209358-MB2	ND U	5.0	1	09/21/12 16:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
Date Analyzed: 09/21/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-12b
Lab Code: K1209358-006

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1209358- 006DUP24 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	13	699	687	693	2	10

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Analyzed: 09/21/12

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units: mg/L

Basis: NA

Analysis Lot: 310540

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209358-LCS1	1250	1240	100	90-108

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: SM 4500-NH3 E

Service Request: K1209358
Date Collected: 09/17/12 - 09/18/12
Date Received: 09/19/12
Units: mg/L
Basis: NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1209358-004	ND U	0.050	1	09/24/12 10:10	
MW-14b	K1209358-005	ND U	0.050	1	09/24/12 10:10	
MW-12b	K1209358-006	ND U	0.050	1	09/24/12 10:10	
MW-16	K1209358-007	ND U	0.050	1	09/24/12 10:10	
MW-17	K1209358-008	ND U	0.050	1	09/24/12 10:10	
MW-21S	K1209358-009	ND U	0.050	1	09/24/12 10:10	
MW-21D	K1209358-010	ND U	0.050	1	09/24/12 10:10	
MW-23	K1209358-011	ND U	0.050	1	09/24/12 10:10	
D23	K1209358-012	ND U	0.050	1	09/24/12 10:10	
MW-24	K1209358-013	ND U	0.050	1	09/24/12 10:10	
MW-25	K1209358-014	ND U	0.050	1	09/24/12 10:10	
MW-26	K1209358-015	ND U	0.050	1	09/24/12 10:10	
D-26	K1209358-016	ND U	0.050	1	09/24/12 10:10	
MW-27	K1209358-018	ND U	0.050	1	09/24/12 10:10	
Method Blank	K1209358-MB1	ND U	0.050	1	09/24/12 10:10	
Method Blank	K1209358-MB2	ND U	0.050	1	09/24/12 10:10	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
Date Analyzed: 09/24/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-12b
Lab Code: K1209358-006

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1209358-006DUP24 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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
Date Analyzed: 09/24/12

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-12b
Lab Code: K1209358-006
Analysis Method: SM 4500-NH3 E

Units: mg/L
Basis: NA

Matrix Spike
K1209358-006MS7

<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	8.88	10.0	89	80-115

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Analyzed: 09/24/12

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: SM 4500-NH3 E

Units: mg/L

Basis: NA

Analysis Lot: 310783

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209358-LCS1	15.4	13.9	111	80-115
Lab Control Sample	K1209358-LCS2	14.8	13.9	106	80-115

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1209358
Date Collected: 09/17/12 - 09/18/12
Date Received: 09/19/12
Units: mg/L
Basis: NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1209358-004	0.63	0.50	1	09/20/12 21:39	
MW-14b	K1209358-005	0.58	0.50	1	09/20/12 21:39	
MW-12b	K1209358-006	0.63	0.50	1	09/20/12 21:39	
MW-16	K1209358-007	0.69	0.50	1	09/20/12 21:39	
MW-17	K1209358-008	0.73	0.50	1	09/20/12 21:39	
MW-21S	K1209358-009	0.64	0.50	1	09/20/12 21:39	
MW-21D	K1209358-010	0.69	0.50	1	09/20/12 21:39	
MW-23	K1209358-011	0.63	0.50	1	09/20/12 21:39	
D23	K1209358-012	0.67	0.50	1	09/20/12 21:39	
MW-24	K1209358-013	0.68	0.50	1	09/20/12 21:39	
MW-25	K1209358-014	0.59	0.50	1	09/20/12 21:39	
MW-26	K1209358-015	0.59	0.50	1	09/20/12 21:39	
D-26	K1209358-016	0.58	0.50	1	09/20/12 21:39	
MW-27	K1209358-018	0.66	0.50	1	09/20/12 21:39	
Method Blank	K1209358-MB1	ND U	0.50	1	09/20/12 21:39	
Method Blank	K1209358-MB2	ND U	0.50	1	09/20/12 21:39	
Method Blank	K1209358-MB3	ND U	0.50	1	09/20/12 21:39	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1209358
Date Collected: 09/17/12 - 09/18/12
Date Received: 09/19/12
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-11	K1209358-004DUP22	0.50	0.63	0.59	0.611	6	10	09/20/12
MW-14b	K1209358-005DUP23	0.50	0.58	0.56	0.571	4	10	09/20/12
MW-12b	K1209358-006DUP24	0.50	0.63	0.56	0.592	11 *	10	09/20/12
MW-16	K1209358-007DUP25	0.50	0.69	0.59	0.643	15 *	10	09/20/12
MW-17	K1209358-008DUP26	0.50	0.73	0.61	0.671	18 *	10	09/20/12
MW-21S	K1209358-009DUP27	0.50	0.64	0.65	0.647	<1	10	09/20/12
MW-21D	K1209358-010DUP28	0.50	0.69	0.63	0.664	9	10	09/20/12
MW-23	K1209358-011DUP29	0.50	0.63	0.62	0.623	3	10	09/20/12
D23	K1209358-012DUP30	0.50	0.67	0.54	0.603	22 *	10	09/20/12
MW-24	K1209358-013DUP31	0.50	0.68	0.61	0.644	11 *	10	09/20/12
MW-25	K1209358-014DUP32	0.50	0.59	0.53	0.559	11 *	10	09/20/12
MW-26	K1209358-015DUP33	0.50	0.59	0.56	0.576	4	10	09/20/12
D-26	K1209358-016DUP34	0.50	0.58	0.50	0.541	15 *	10	09/20/12
MW-27	K1209358-018DUP35	0.50	0.66	0.64	0.648	3	10	09/20/12

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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/12
Date Received: 09/19/12
Date Analyzed: 09/20/12

Matrix Spike Summary
Carbon, Total Organic

Sample Name: MW-12b
Lab Code: K1209358-006
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Matrix Spike
K1209358-006MS7

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic	0.63	25.9	25.0	101	83-117

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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Analyzed: 09/20/12

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method: SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 310453

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209358-LCS1	22.1	22.7	97	83-117
Lab Control Sample	K1209358-LCS2	22.3	22.7	98	83-117
Lab Control Sample	K1209358-LCS3	21.9	22.7	97	83-117

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- Cover Page -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services
Project Name: Sudbury Landfill Remedial Investigation
Project No.:

Service Request: K1209358

<u>Sample Name:</u>	<u>Lab Code:</u>
MW-11	K1209358-004DISS
MW-14b	K1209358-005DISS
MW-12b	K1209358-006DISS
MW-12bD	K1209358-006DISSD
MW-12bS	K1209358-006DISSS
MW-16	K1209358-007DISS
MW-17	K1209358-008DISS
MW-21S	K1209358-009DISS
MW-21D	K1209358-010DISS
MW-23	K1209358-011DISS
D23	K1209358-012DISS
MW-24	K1209358-013DISS
MW-25	K1209358-014DISS
MW-26	K1209358-015DISS
D-26	K1209358-016DISS
MW-27	K1209358-018DISS
Method Blank	K1209358-MB

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1209358
 Project No.: NA Date Collected: 9/18/2012
 Project Name: Sudbury Landfill Remedial Invest Date Received: 9/19/2012
 Matrix: WATER Units: ug/L
 Basis: NA

Sample Name: MW-11 Lab Code: K1209358-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	85000		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	20.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	34400		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	5.0	U	
Potassium	6010C	400	1.0	09/27/12	09/29/12	7860		
Sodium	6010C	200	1.0	09/27/12	09/29/12	35900		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209358
Project No.: NA **Date Collected:** 9/17/2012
Project Name: Sudbury Landfill Remedial Invest **Date Received:** 9/19/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-14b **Lab Code:** K1209358-005DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	116000		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	20.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	48700		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	5.4		
Potassium	6010C	400	1.0	09/27/12	09/29/12	7560		
Sodium	6010C	200	1.0	09/27/12	09/29/12	17400		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209358
Project No.: NA **Date Collected:** 9/17/2012
Project Name: Sudbury Landfill Remedial Invest **Date Received:** 9/19/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-12b **Lab Code:** K1209358-006DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	102000		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	30.7		
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	46700		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	5.0	U	
Potassium	6010C	400	1.0	09/27/12	09/29/12	7480		
Sodium	6010C	200	1.0	09/27/12	09/29/12	29100		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1209358
 Project No.: NA Date Collected: 9/17/2012
 Project Name: Sudbury Landfill Remedial Invest Date Received: 9/19/2012
 Matrix: WATER Units: ug/L
 Basis: NA

Sample Name: MW-16 Lab Code: K1209358-007DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	110000		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	20.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	47500		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	5.0	U	
Potassium	6010C	400	1.0	09/27/12	09/29/12	6950		
Sodium	6010C	200	1.0	09/27/12	09/29/12	20400		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209358
Project No.: NA **Date Collected:** 9/17/2012
Project Name: Sudbury Landfill Remedial Invest **Date Received:** 9/19/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-17 **Lab Code:** K1209358-008DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	107000		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	20.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	47200		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	11.7		
Potassium	6010C	400	1.0	09/27/12	09/29/12	7830		
Sodium	6010C	200	1.0	09/27/12	09/29/12	28800		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209358
Project No.: NA **Date Collected:** 9/18/2012
Project Name: Sudbury Landfill Remedial Invest **Date Received:** 9/19/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-21S **Lab Code:** K1209358-009DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	111000		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	20.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	48200		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	62.0		
Potassium	6010C	400	1.0	09/27/12	09/29/12	7650		
Sodium	6010C	200	1.0	09/27/12	09/29/12	25100		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209358
Project No.: NA **Date Collected:** 9/18/2012
Project Name: Sudbury Landfill Remedial Invest **Date Received:** 9/19/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-21D **Lab Code:** K1209358-010DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	114000		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	20.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	52100		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	5.0	U	
Potassium	6010C	400	1.0	09/27/12	09/29/12	7530		
Sodium	6010C	200	1.0	09/27/12	09/29/12	18900		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209358
Project No.: NA **Date Collected:** 9/17/2012
Project Name: Sudbury Landfill Remedial Invest **Date Received:** 9/19/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-24 **Lab Code:** K1209358-013DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	96000		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	20.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	42000		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	6.5		
Potassium	6010C	400	1.0	09/27/12	09/29/12	7320		
Sodium	6010C	200	1.0	09/27/12	09/29/12	24800		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209358
Project No.: NA **Date Collected:** 9/17/2012
Project Name: Sudbury Landfill Remedial Invest **Date Received:** 9/19/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-25 **Lab Code:** K1209358-014DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	71800		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	21.1		
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	26900		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	93.9		
Potassium	6010C	400	1.0	09/27/12	09/29/12	7130		
Sodium	6010C	200	1.0	09/27/12	09/29/12	30400		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209358
Project No.: NA **Date Collected:** 9/17/2012
Project Name: Sudbury Landfill Remedial Invest **Date Received:** 9/19/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-26 **Lab Code:** K1209358-015DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	98500		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	20.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	39500		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	5.0	U	
Potassium	6010C	400	1.0	09/27/12	09/29/12	8140		
Sodium	6010C	200	1.0	09/27/12	09/29/12	33300		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209358
Project No.: NA **Date Collected:** 9/17/2012
Project Name: Sudbury Landfill Remedial Invest **Date Received:** 9/19/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: D-26 **Lab Code:** K1209358-016DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	98100		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	20.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	39800		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	5.0	U	
Potassium	6010C	400	1.0	09/27/12	09/29/12	8270		
Sodium	6010C	200	1.0	09/27/12	09/29/12	33500		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1209358
 Project No.: NA Date Collected: 9/17/2012
 Project Name: Sudbury Landfill Remedial Invest Date Received: 9/19/2012
 Matrix: WATER Units: ug/L
 Basis: NA

Sample Name: MW-27 Lab Code: K1209358-018DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	09/29/12	105000		
Iron	6010C	20.0	1.0	09/27/12	09/29/12	20.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	09/29/12	45100		
Manganese	6010C	5.0	1.0	09/27/12	09/29/12	5.0	U	
Potassium	6010C	400	1.0	09/27/12	09/29/12	7550		
Sodium	6010C	200	1.0	09/27/12	09/29/12	25800		

Comments:

Metals
 - 5A -

SPIKE SAMPLE RECOVERY

Client: Schwyn Environmental Services Service Request: K1209358
 Project No.: NA Units: UG/L
 Project Name: Sudbury Landfill Remedial Invest Basis: NA
 Matrix: WATER

Sample Name: MW-12bS

Lab Code: K1209358-006DISSS

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Calcium		108000	102000	10000.00	60.0		6010C
Iron	75 - 125	904	30.7	1000.00	87.3		6010C
Magnesium		54600	46700	10000.00	79.0		6010C
Manganese	84 - 121	469	5.0 U	500.00	93.8		6010C
Potassium	75 - 125	17000	7480	10000.00	95.2		6010C
Sodium	75 - 125	37800	29100	10000.00	87.0		6010C

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

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Metals

- 6 -

DUPLICATES

Client: Schwyn Environmental Services **Service Request:** K1209358
Project No.: NA **Units:** UG/L
Project Name: Sudbury Landfill Remedial Invest **Basis:** NA
Matrix: WATER

Sample Name: MW-12bD

Lab Code: K1209358-006DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	102000		99700		2.3		6010C
Iron		30.7		20.0	U	200.0		6010C
Magnesium	20	46700		45800		1.9		6010C
Manganese		5.0	U	5.0	U			6010C
Potassium	20	7480		7380		1.3		6010C
Sodium	20	29100		28600		1.7		6010C

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

Metals
 - 7 -

LABORATORY CONTROL SAMPLE

Client: Schwyn Environmental Services

Service Request: K1209358

Project No.: NA

Project Name: Sudbury Landfill Remedial Invest

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	11500	92.0					
Iron	2500	2220	88.8					
Magnesium	12500	11800	94.4					
Manganese	1250	1180	94.4					
Potassium	12500	11800	94.4					
Sodium	12500	12000	96.0					

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Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-5
Lab Code: K1209358-001
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	0.57		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	1.8		0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	0.64		0.50	1	09/25/12	09/25/12	KWG1211259	

Comments: _____

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Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-5
Lab Code: K1209358-001
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/25/12	Acceptable
Toluene-d8	97	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/25/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-9
Lab Code: K1209358-002
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	0.83		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	1.4		0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	0.54		0.50	1	09/25/12	09/25/12	KWG1211259	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-9
Lab Code: K1209358-002
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/25/12	Acceptable
Toluene-d8	97	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/25/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-10
Lab Code: K1209358-003
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	1.6		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	0.59		0.50	1	09/25/12	09/25/12	KWG1211259	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-10
Lab Code: K1209358-003
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	09/25/12	Acceptable
Toluene-d8	98	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	92	68-117	09/25/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-11
Lab Code: K1209358-004
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	1.2		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	1.1		0.50	1	09/25/12	09/25/12	KWG1211259	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-11
Lab Code: K1209358-004
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/25/12	Acceptable
Toluene-d8	98	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	90	68-117	09/25/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-14b
Lab Code: K1209358-005
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	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.85		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	0.72		0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-14b
Lab Code: K1209358-005
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	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/27/12	Acceptable
Toluene-d8	98	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	90	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1209358-006
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	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.83		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	0.68		0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1209358-006
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	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/27/12	Acceptable
Toluene-d8	99	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1209358-007
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	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	0.64		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.54		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	0.64		0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1209358-007
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	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	09/27/12	Acceptable
Toluene-d8	98	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-17
Lab Code: K1209358-008
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	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	0.66		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.54		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	0.57		0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	1.8		0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-17
Lab Code: K1209358-008
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	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	73-122	09/27/12	Acceptable
Toluene-d8	98	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-21S
Lab Code: K1209358-009
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	0.76		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	0.50		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	0.85		0.50	1	09/25/12	09/25/12	KWG1211259	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-21S
Lab Code: K1209358-009
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	09/25/12	Acceptable
Toluene-d8	97	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	92	68-117	09/25/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-21D
Lab Code: K1209358-010
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	0.58		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	0.92		0.50	1	09/25/12	09/25/12	KWG1211259	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-21D
Lab Code: K1209358-010
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	09/25/12	Acceptable
Toluene-d8	98	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	90	68-117	09/25/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1209358-011
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	0.67		0.50	1	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.55		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	0.69		0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	0.97		0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1209358-011
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	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	73-122	09/27/12	Acceptable
Toluene-d8	98	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	90	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: D23
Lab Code: K1209358-012
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	0.67		0.50	1	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.55		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	0.66		0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	1.0		0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: D23
Lab Code: K1209358-012
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
2-Hexanone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	73-122	09/27/12	Acceptable
Toluene-d8	98	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	90	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-24
Lab Code: K1209358-013
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	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.65		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	0.75		0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	1.1		0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-24
Lab Code: K1209358-013
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
2-Hexanone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	73-122	09/27/12	Acceptable
Toluene-d8	97	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	92	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-25
Lab Code: K1209358-014
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	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	1.2		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-25
Lab Code: K1209358-014
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
2-Hexanone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/27/12	Acceptable
Toluene-d8	99	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	90	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-26
Lab Code: K1209358-015
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	0.52		0.50	1	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.98		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	1.1		0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-26
Lab Code: K1209358-015
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	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/27/12	Acceptable
Toluene-d8	97	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	90	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: D-26
Lab Code: K1209358-016
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	0.52		0.50	1	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.97		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	1.1		0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: D-26
Lab Code: K1209358-016
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	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	73-122	09/27/12	Acceptable
Toluene-d8	98	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	89	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1209358-017
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	09/23/12	09/23/12	KWG1211169	
Chloromethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Vinyl Chloride	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Bromomethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	*
Chloroethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Trichlorofluoromethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,1-Dichloroethene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Acetone	ND	U	20	1	09/23/12	09/23/12	KWG1211169	
Iodomethane	ND	U	5.0	1	09/23/12	09/23/12	KWG1211169	
Carbon Disulfide	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Methylene Chloride	ND	U	2.0	1	09/23/12	09/23/12	KWG1211169	
Acrylonitrile	ND	U	5.0	1	09/23/12	09/23/12	KWG1211169	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,1-Dichloroethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Vinyl Acetate	ND	U	5.0	1	09/23/12	09/23/12	KWG1211169	*
cis-1,2-Dichloroethene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
2-Butanone (MEK)	ND	U	20	1	09/23/12	09/23/12	KWG1211169	
Bromochloromethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Chloroform	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Carbon Tetrachloride	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Benzene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Trichloroethene (TCE)	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,2-Dichloropropane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Dibromomethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Bromodichloromethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/23/12	09/23/12	KWG1211169	
Toluene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,1,2-Trichloroethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Tetrachloroethene (PCE)	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1209358-017
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	09/23/12	09/23/12	KWG1211169	
Dibromochloromethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/23/12	09/23/12	KWG1211169	
Chlorobenzene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Ethylbenzene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
m,p-Xylenes	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
o-Xylene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Styrene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Bromoform	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/23/12	09/23/12	KWG1211169	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/23/12	09/23/12	KWG1211169	
1,2,3-Trichloropropane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,4-Dichlorobenzene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,2-Dichlorobenzene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/23/12	09/23/12	KWG1211169	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	73-122	09/23/12	Acceptable
Toluene-d8	117	65-144	09/23/12	Acceptable
4-Bromofluorobenzene	107	68-117	09/23/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-27
Lab Code: K1209358-018
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	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.51		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	0.91		0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-27
Lab Code: K1209358-018
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	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	73-122	09/27/12	Acceptable
Toluene-d8	98	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1211169-4
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	09/23/12	09/23/12	KWG1211169	
Chloromethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Vinyl Chloride	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Bromomethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	*
Chloroethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Trichlorofluoromethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,1-Dichloroethene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Acetone	ND	U	20	1	09/23/12	09/23/12	KWG1211169	
Iodomethane	ND	U	5.0	1	09/23/12	09/23/12	KWG1211169	
Carbon Disulfide	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Methylene Chloride	ND	U	2.0	1	09/23/12	09/23/12	KWG1211169	
Acrylonitrile	ND	U	5.0	1	09/23/12	09/23/12	KWG1211169	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,1-Dichloroethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Vinyl Acetate	ND	U	5.0	1	09/23/12	09/23/12	KWG1211169	*
cis-1,2-Dichloroethene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
2-Butanone (MEK)	ND	U	20	1	09/23/12	09/23/12	KWG1211169	
Bromochloromethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Chloroform	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Carbon Tetrachloride	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Benzene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Trichloroethene (TCE)	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,2-Dichloropropane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Dibromomethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Bromodichloromethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/23/12	09/23/12	KWG1211169	
Toluene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,1,2-Trichloroethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Tetrachloroethene (PCE)	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1211169-4
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	09/23/12	09/23/12	KWG1211169	
Dibromochloromethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/23/12	09/23/12	KWG1211169	
Chlorobenzene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Ethylbenzene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
m,p-Xylenes	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
o-Xylene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Styrene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
Bromoform	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/23/12	09/23/12	KWG1211169	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/23/12	09/23/12	KWG1211169	
1,2,3-Trichloropropane	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,4-Dichlorobenzene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,2-Dichlorobenzene	ND	U	0.50	1	09/23/12	09/23/12	KWG1211169	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/23/12	09/23/12	KWG1211169	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	73-122	09/23/12	Acceptable
Toluene-d8	116	65-144	09/23/12	Acceptable
4-Bromofluorobenzene	108	68-117	09/23/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1211259-4
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1211259-4
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/25/12	Acceptable
Toluene-d8	98	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	92	68-117	09/25/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1211401-4
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	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1211401-4
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	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	09/27/12	Acceptable
Toluene-d8	98	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/27/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358

**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	K1209358-001	92	97	91
MW-9	K1209358-002	92	97	91
MW-10	K1209358-003	94	98	92
MW-11	K1209358-004	92	98	90
MW-14b	K1209358-005	92	98	90
MW-12b	K1209358-006	92	99	91
MW-16	K1209358-007	93	98	91
MW-17	K1209358-008	91	98	91
MW-21S	K1209358-009	93	97	92
MW-21D	K1209358-010	94	98	90
MW-23	K1209358-011	90	98	90
D23	K1209358-012	91	98	90
MW-24	K1209358-013	90	97	92
MW-25	K1209358-014	92	99	90
MW-26	K1209358-015	92	97	90
D-26	K1209358-016	91	98	89
Trip Blank	K1209358-017	109	117	107
MW-27	K1209358-018	91	98	91
Method Blank	KWG1211169-4	109	116	108
Method Blank	KWG1211259-4	92	98	92
Method Blank	KWG1211401-4	93	98	91
MW-12bMS	KWG1211401-1	93	99	92
MW-12bDMS	KWG1211401-2	95	100	94
Lab Control Sample	KWG1211169-3	109	117	108
Lab Control Sample	KWG1211259-3	94	101	92
Lab Control Sample	KWG1211401-3	94	101	95

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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Extracted: 09/27/2012
Date Analyzed: 09/27/2012

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1209358-006
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211401

Analyte Name	Sample Result	MW-12bMS KWG1211401-1 Matrix Spike			MW-12bDMS KWG1211401-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	9.57	10.0	96	9.62	10.0	96	49-136	1	30
1,1-Dichloroethene	ND	10.5	10.0	105	10.7	10.0	107	59-171	2	30
Chloroform	0.83	10.3	10.0	94	10.7	10.0	99	64-133	4	30
Carbon Tetrachloride	ND	8.72	10.0	87	8.86	10.0	89	53-161	2	30
Benzene	ND	9.90	10.0	99	10.3	10.0	103	63-144	4	30
Trichloroethene (TCE)	ND	9.98	10.0	100	10.1	10.0	101	53-139	1	30
Bromodichloromethane	ND	8.80	10.0	88	9.23	10.0	92	61-134	5	30
Toluene	ND	9.61	10.0	96	9.84	10.0	98	71-136	2	30
1,1,2-Trichloroethane	ND	9.03	10.0	90	9.33	10.0	93	74-124	3	30
2-Hexanone	ND	42.8	50.0	86	44.7	50.0	89	53-132	4	30
Chlorobenzene	ND	9.17	10.0	92	9.41	10.0	94	69-126	3	30
Ethylbenzene	ND	9.31	10.0	93	9.44	10.0	94	66-136	1	30
1,2,3-Trichloropropane	ND	8.49	10.0	85	8.35	10.0	84	71-127	2	30
1,2-Dichlorobenzene	ND	8.73	10.0	87	8.71	10.0	87	72-119	0	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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Extracted: 09/23/2012
Date Analyzed: 09/23/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211169

Lab Control Sample
 KWG1211169-3
 Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	10.5	10.0	105	32-124
Chloromethane	9.90	10.0	99	34-130
Vinyl Chloride	9.71	10.0	97	55-123
Bromomethane	7.59	10.0	76	35-113
Chloroethane	10.4	10.0	104	58-134
Trichlorofluoromethane	9.27	10.0	93	52-141
1,1-Dichloroethene	11.5	10.0	115	66-129
Acetone	51.4	50.0	103	68-135
Iodomethane	34.8	30.0	116	51-164
Carbon Disulfide	20.5	20.0	103	46-144
Methylene Chloride	10.7	10.0	107	71-122
Acrylonitrile	43.6	40.0	109	65-129
trans-1,2-Dichloroethene	11.2	10.0	112	67-125
1,1-Dichloroethane	11.2	10.0	112	68-132
Vinyl Acetate	86.1	50.0	172 *	44-156
cis-1,2-Dichloroethene	11.0	10.0	110	71-118
2-Butanone (MEK)	52.1	50.0	104	71-149
Bromochloromethane	11.5	10.0	115	75-131
Chloroform	11.2	10.0	112	70-129
1,1,1-Trichloroethane (TCA)	11.0	10.0	110	59-136
Carbon Tetrachloride	11.5	10.0	115	55-140
Benzene	10.2	10.0	102	69-124
1,2-Dichloroethane (EDC)	11.4	10.0	114	56-142
Trichloroethene (TCE)	11.1	10.0	111	67-128
1,2-Dichloropropane	11.1	10.0	111	67-126
Dibromomethane	11.4	10.0	114	69-128
Bromodichloromethane	11.5	10.0	115	63-129
cis-1,3-Dichloropropene	10.7	10.0	107	62-132
4-Methyl-2-pentanone (MIBK)	50.4	50.0	101	64-134
Toluene	10.7	10.0	107	69-124
trans-1,3-Dichloropropene	10.8	10.0	108	59-125
1,1,2-Trichloroethane	11.1	10.0	111	74-118
Tetrachloroethene (PCE)	11.0	10.0	110	62-126
2-Hexanone	52.0	50.0	104	59-131
Dibromochloromethane	10.6	10.0	106	67-126

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Extracted: 09/23/2012
Date Analyzed: 09/23/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211169

Lab Control Sample
 KWG1211169-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	11.1	10.0	111	74-118
Chlorobenzene	10.6	10.0	106	72-116
Ethylbenzene	10.8	10.0	108	67-121
1,1,1,2-Tetrachloroethane	10.8	10.0	108	66-124
m,p-Xylenes	22.0	20.0	110	69-121
o-Xylene	11.1	10.0	111	71-119
Styrene	10.8	10.0	108	74-121
Bromoform	10.7	10.0	107	52-144
cis-1,4-Dichloro-2-butene	34.9	30.0	116	26-171
1,1,2,2-Tetrachloroethane	10.8	10.0	108	70-127
trans-1,4-Dichloro-2-butene	30.2	30.0	101	46-170
1,2,3-Trichloropropane	11.0	10.0	110	69-123
1,4-Dichlorobenzene	10.6	10.0	106	73-115
1,2-Dichlorobenzene	10.5	10.0	105	72-115
1,2-Dibromo-3-chloropropane	10.2	10.0	102	55-132

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Extracted: 09/25/2012
Date Analyzed: 09/25/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211259

Lab Control Sample
 KWG1211259-3
 Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	7.96	10.0	80	32-124
Chloromethane	9.20	10.0	92	34-130
Vinyl Chloride	8.39	10.0	84	55-123
Bromomethane	9.00	10.0	90	35-113
Chloroethane	9.09	10.0	91	58-134
Trichlorofluoromethane	7.02	10.0	70	52-141
1,1-Dichloroethene	9.85	10.0	99	66-129
Acetone	45.9	50.0	92	68-135
Iodomethane	34.8	30.0	116	51-164
Carbon Disulfide	16.6	20.0	83	46-144
Methylene Chloride	9.15	10.0	92	71-122
Acrylonitrile	36.5	40.0	91	65-129
trans-1,2-Dichloroethene	9.45	10.0	95	67-125
1,1-Dichloroethane	9.44	10.0	94	68-132
Vinyl Acetate	66.5	50.0	133	44-156
cis-1,2-Dichloroethene	8.90	10.0	89	71-118
2-Butanone (MEK)	43.8	50.0	88	71-149
Bromochloromethane	8.46	10.0	85	75-131
Chloroform	8.74	10.0	87	70-129
1,1,1-Trichloroethane (TCA)	8.18	10.0	82	59-136
Carbon Tetrachloride	8.09	10.0	81	55-140
Benzene	9.12	10.0	91	69-124
1,2-Dichloroethane (EDC)	8.35	10.0	84	56-142
Trichloroethene (TCE)	9.15	10.0	92	67-128
1,2-Dichloropropane	9.14	10.0	91	67-126
Dibromomethane	7.95	10.0	80	69-128
Bromodichloromethane	8.16	10.0	82	63-129
cis-1,3-Dichloropropene	8.17	10.0	82	62-132
4-Methyl-2-pentanone (MIBK)	41.0	50.0	82	64-134
Toluene	8.84	10.0	88	69-124
trans-1,3-Dichloropropene	7.83	10.0	78	59-125
1,1,2-Trichloroethane	8.35	10.0	84	74-118
Tetrachloroethene (PCE)	8.77	10.0	88	62-126
2-Hexanone	39.0	50.0	78	59-131
Dibromochloromethane	7.37	10.0	74	67-126

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Extracted: 09/25/2012
Date Analyzed: 09/25/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211259

Lab Control Sample
 KWG1211259-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	8.07	10.0	81	74-118
Chlorobenzene	8.52	10.0	85	72-116
Ethylbenzene	8.55	10.0	86	67-121
1,1,1,2-Tetrachloroethane	7.93	10.0	79	66-124
m,p-Xylenes	17.0	20.0	85	69-121
o-Xylene	8.69	10.0	87	71-119
Styrene	8.71	10.0	87	74-121
Bromoform	6.99	10.0	70	52-144
cis-1,4-Dichloro-2-butene	27.5	30.0	92	26-171
1,1,2,2-Tetrachloroethane	8.27	10.0	83	70-127
trans-1,4-Dichloro-2-butene	23.5	30.0	78	46-170
1,2,3-Trichloropropane	7.95	10.0	80	69-123
1,4-Dichlorobenzene	8.21	10.0	82	73-115
1,2-Dichlorobenzene	8.11	10.0	81	72-115
1,2-Dibromo-3-chloropropane	7.78	10.0	78	55-132

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Extracted: 09/27/2012
Date Analyzed: 09/27/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211401

Lab Control Sample
 KWG1211401-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	9.28	10.0	93	32-124
Chloromethane	10.1	10.0	101	34-130
Vinyl Chloride	9.32	10.0	93	55-123
Bromomethane	9.44	10.0	94	35-113
Chloroethane	9.65	10.0	97	58-134
Trichlorofluoromethane	7.34	10.0	73	52-141
1,1-Dichloroethene	10.4	10.0	104	66-129
Acetone	46.5	50.0	93	68-135
Iodomethane	33.6	30.0	112	51-164
Carbon Disulfide	18.7	20.0	93	46-144
Methylene Chloride	9.55	10.0	96	71-122
Acrylonitrile	37.1	40.0	93	65-129
trans-1,2-Dichloroethene	9.86	10.0	99	67-125
1,1-Dichloroethane	10.0	10.0	100	68-132
Vinyl Acetate	67.6	50.0	135	44-156
cis-1,2-Dichloroethene	9.27	10.0	93	71-118
2-Butanone (MEK)	46.0	50.0	92	71-149
Bromochloromethane	8.89	10.0	89	75-131
Chloroform	9.26	10.0	93	70-129
1,1,1-Trichloroethane (TCA)	8.63	10.0	86	59-136
Carbon Tetrachloride	8.41	10.0	84	55-140
Benzene	9.65	10.0	97	69-124
1,2-Dichloroethane (EDC)	8.68	10.0	87	56-142
Trichloroethene (TCE)	9.60	10.0	96	67-128
1,2-Dichloropropane	9.71	10.0	97	67-126
Dibromomethane	8.43	10.0	84	69-128
Bromodichloromethane	8.45	10.0	85	63-129
cis-1,3-Dichloropropene	8.53	10.0	85	62-132
4-Methyl-2-pentanone (MIBK)	45.0	50.0	90	64-134
Toluene	9.24	10.0	92	69-124
trans-1,3-Dichloropropene	8.31	10.0	83	59-125
1,1,2-Trichloroethane	8.90	10.0	89	74-118
Tetrachloroethene (PCE)	9.07	10.0	91	62-126
2-Hexanone	42.4	50.0	85	59-131
Dibromochloromethane	7.94	10.0	79	67-126

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Extracted: 09/27/2012
Date Analyzed: 09/27/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211401

Lab Control Sample
 KWG1211401-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	8.49	10.0	85	74-118
Chlorobenzene	8.91	10.0	89	72-116
Ethylbenzene	9.20	10.0	92	67-121
1,1,1,2-Tetrachloroethane	8.38	10.0	84	66-124
m,p-Xylenes	18.1	20.0	90	69-121
o-Xylene	9.22	10.0	92	71-119
Styrene	9.13	10.0	91	74-121
Bromoform	7.26	10.0	73	52-144
cis-1,4-Dichloro-2-butene	25.8	30.0	86	26-171
1,1,2,2-Tetrachloroethane	9.24	10.0	92	70-127
trans-1,4-Dichloro-2-butene	23.0	30.0	77	46-170
1,2,3-Trichloropropane	8.40	10.0	84	69-123
1,4-Dichlorobenzene	9.06	10.0	91	73-115
1,2-Dichlorobenzene	8.70	10.0	87	72-115
1,2-Dibromo-3-chloropropane	8.44	10.0	84	55-132

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-5
Lab Code: K1209358-001
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	114	77-123	09/24/12	Acceptable
Toluene-d8	109	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	80	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-9 **Units:** ng/L
Lab Code: K1209358-002 **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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	115	77-123	09/24/12	Acceptable
Toluene-d8	108	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-10 **Units:** ng/L
Lab Code: K1209358-003 **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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	116	77-123	09/24/12	Acceptable
Toluene-d8	106	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-11
Lab Code: K1209358-004
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	117	77-123	09/24/12	Acceptable
Toluene-d8	106	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	78	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-14b **Units:** ng/L
Lab Code: K1209358-005 **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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	117	77-123	09/24/12	Acceptable
Toluene-d8	106	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1209358-006
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	118	77-123	09/24/12	Acceptable
Toluene-d8	107	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	80	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1209358-007
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	09/21/12	09/21/12	KWG1211131	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	09/21/12	Acceptable
Toluene-d8	107	74-112	09/21/12	Acceptable
4-Bromofluorobenzene	80	46-118	09/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-17 **Units:** ng/L
Lab Code: K1209358-008 **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	09/21/12	09/21/12	KWG1211131	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	113	77-123	09/21/12	Acceptable
Toluene-d8	106	74-112	09/21/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-21S
Lab Code: K1209358-009
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	117	77-123	09/24/12	Acceptable
Toluene-d8	105	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/18/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-21D
Lab Code: K1209358-010
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	118	77-123	09/24/12	Acceptable
Toluene-d8	105	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1209358-011
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	09/21/12	09/21/12	KWG1211131	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	114	77-123	09/21/12	Acceptable
Toluene-d8	105	74-112	09/21/12	Acceptable
4-Bromofluorobenzene	80	46-118	09/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: D23
Lab Code: K1209358-012
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	119	77-123	09/24/12	Acceptable
Toluene-d8	106	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-24
Lab Code: K1209358-013
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	118	77-123	09/24/12	Acceptable
Toluene-d8	105	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-25
Lab Code: K1209358-014
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	77-123	09/24/12	Acceptable
Toluene-d8	104	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-26
Lab Code: K1209358-015
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	119	77-123	09/24/12	Acceptable
Toluene-d8	105	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: D-26
Lab Code: K1209358-016
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	77-123	09/24/12	Acceptable
Toluene-d8	105	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1209358-017
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	112	77-123	09/24/12	Acceptable
Toluene-d8	109	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: 09/17/2012
Date Received: 09/19/2012

Volatile Organic Compounds

Sample Name: MW-27
Lab Code: K1209358-018
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	77-123	09/24/12	Acceptable
Toluene-d8	104	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	80	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** ng/L
Lab Code: KWG1211131-4 **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	09/21/12	09/21/12	KWG1211131	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	09/21/12	Acceptable
Toluene-d8	108	74-112	09/21/12	Acceptable
4-Bromofluorobenzene	80	46-118	09/21/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1211189-4
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	111	77-123	09/24/12	Acceptable
Toluene-d8	109	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358

**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-5	K1209358-001	114	109	80
MW-9	K1209358-002	115	108	79
MW-10	K1209358-003	116	106	79
MW-11	K1209358-004	117	106	78
MW-14b	K1209358-005	117	106	79
MW-12b	K1209358-006	118	107	80
MW-16	K1209358-007	110	107	80
MW-17	K1209358-008	113	106	79
MW-21S	K1209358-009	117	105	79
MW-21D	K1209358-010	118	105	79
MW-23	K1209358-011	114	105	80
D23	K1209358-012	119	106	79
MW-24	K1209358-013	118	105	79
MW-25	K1209358-014	120	104	79
MW-26	K1209358-015	119	105	79
D-26	K1209358-016	120	105	79
Trip Blank	K1209358-017	112	109	79
MW-27	K1209358-018	120	104	80
Method Blank	KWG1211131-4	110	108	80
Method Blank	KWG1211189-4	111	109	79
MW-12bMS	KWG1211189-1	107	114	* 102
MW-12bDMS	KWG1211189-2	108	114	* 102
Lab Control Sample	KWG1211131-3	107	112	104
Lab Control Sample	KWG1211189-3	108	114	* 105

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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Extracted: 09/24/2012
Date Analyzed: 09/24/2012

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1209358-006
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1211189

Analyte Name	Sample Result	MW-12bMS KWG1211189-1 Matrix Spike			MW-12bDMS KWG1211189-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	1980	2000	99	1880	2000	94	70-130	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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Extracted: 09/21/2012
Date Analyzed: 09/21/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1211131

Lab Control Sample
KWG1211131-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	1970	2000	99	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: Sudbury Landfill Remedial Investigation
Sample Matrix: Water

Service Request: K1209358
Date Extracted: 09/24/2012
Date Analyzed: 09/24/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1211189

Lab Control Sample
KWG1211189-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2330	2000	116	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.



October 8, 2012

Analytical Report for Service Request No: K1209476

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

RE: City of Walla Walla Sudbury Road Landfill Remedial

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on September 21, 2012. For your reference, these analyses have been assigned our service request number K1209476.

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 3291. You may also contact me via Email at Ed.Wallace@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Ed Wallace
Project Manager

EW/jw

Page 1 of 107



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Columbia Analytical Services, Inc.

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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
Project: Sudbury Road Landfill RI
Sample Matrix: Water

Service Request No.: K1209476
Date Received: 9/21/12

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), and Laboratory Control Sample (LCS).

Sample Receipt

Eleven water samples and one trip blank were received for analysis at ALS Environmental on 9/21/12. 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

No 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-3 were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Volatile Organic Compounds by EPA Method 8260

Calibration Verification Exceptions:

The following analytes were flagged as outside the lower control criterion for Continuing Calibration Verification (CCV) MS27\0925F003.D and MS27\0927F003.D: Bromoform. In accordance with the EPA Method 8260C, 80% or more of the CCV analytes must have passed within 20% of the true value. The remaining analytes are allowed a 40% difference as per the CAS SOP. The CCV met these criteria. In accordance with CAS standard operating procedures, an MRL check standard containing the analytes of concern was analyzed. The MRL check standard verifies instrument sensitivity was adequate to detect the analytes at the MRL on the day of analysis. Because the sensitivity was shown to be adequate to detect the analytes in question, the data quality has not been significantly affected. No further corrective action was required.

Volatile Organic Compounds by EPA Method 8260 SIM

Surrogate Exceptions:

The control criteria were exceeded for Toluene-d8 in DMS KWG1211269-2 and LCS KWG1211189-3. The associated matrix spike recoveries of target compounds were in control, indicating the analysis was in control. The surrogate outlier was flagged accordingly. No further corrective action was appropriate.

Approved by 

Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

(360) 577-7222 FAX (360) 636-1068

SR# W1209476
PAGE 1 OF 1

Project Name: City of Walla Walla Sudbury Road Landfill Remedial Investigation Project Manager: Craig Schwyn Company: Schwyn Environmental Services 4621 South Custer Court Spokane, Washington 99223 509-448-3187: Craig@schwynenviro.com Sampler's Signature: _____					Analysis Requested				
	Number of Containers	VOCs (8260B special list)	Vinyl Chloride by 8260 SIM	[Ca, Chloride, Nitrate, Sulfate (Method 300.0)] [Fe, Mg, Mn, K, Na (Method 6010C)] [Alkalinity (Method 2320B)] [Ammonia (SM 4500)] [TOC (Method 415.1)] [TDS (SM 2540C)]	(see below)	MS/MSD			

Sample I.D.	Date	Time	LAB ID	Matrix	Number of Containers	VOCs (8260B special list)	Vinyl Chloride by 8260 SIM	[Ca, Chloride, Nitrate, Sulfate (Method 300.0)] [Fe, Mg, Mn, K, Na (Method 6010C)] [Alkalinity (Method 2320B)] [Ammonia (SM 4500)] [TOC (Method 415.1)] [TDS (SM 2540C)]	(see below)	MS/MSD	REMARKS
Camp	9/18	1630		Water	6	X	X				
Kinman	↓	1600		↓	6	X	X				
Schmidt	↓	1540		↓	6	X	X				
Small	↓	1700		↓	6	X	X				
MW-3	9/19	1450		↓	20	X	X	X		X	
MW-15	↓	1315		↓	10	X	X	X			
MW-15D	↓	1400		↓	10	X	X	X			
MW-18	↓	1230		↓	10	X	X	X			
MW-19	↓	1600		↓	10	X	X	X			
MW-20	↓	1645		↓	16	X	X	X			
MW-22D	9/20	900		↓	10	X	X	X			
MW-22S	9/20	930		↓	10	X	X	X			

TURNAROUND REQUIREMENTS <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 5 day <input checked="" type="checkbox"/> Standard (21 days) <input type="checkbox"/> Provide FAX Preliminary Results Requested Report Date: _____	REPORT REQUIREMENTS <input type="checkbox"/> I. Routine Report: Results, Method Blank Surrogate, as required <input checked="" type="checkbox"/> II. Report Dup., MS, MSD as required <input type="checkbox"/> III. Data Validation Report (includes raw data) <input type="checkbox"/> IV. CLP Deliverable Report <input checked="" type="checkbox"/> V. EDD	Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C
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RELINQUISHED BY: Signature: <u>Craig Schwyn</u> Printed Name: Craig Schwyn Firm: Schwyn Environmental Services Date/Time: <u>9/20/12 12:00</u>	RECEIVED BY: Signature: <u>UPS</u> Printed Name: _____ Firm: _____ Date/Time: _____	RELINQUISHED BY: Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____	RECEIVED BY: Signature: <u>Karla Smith</u> Printed Name: <u>Karla Smith</u> Firm: <u>ALS</u> Date/Time: <u>9/21/12 1000</u>
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PC ed

Cooler Receipt and Preservation Form

Client / Project: Schwyrn Env. Service Request K12 9476
 Received: 9/21/12 Opened: 9/21/12 By: PS Unloaded: 9/21/12 By: PS

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 NA If yes, how many and where? 1, Front
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
5.4	6.0	297	NA	12339 9WS 23 1000 0078		
4.1	2.2	295		12339 9WS 23 1000 0087		

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 2 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 Remedial
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12

Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-3	K1209476-005	144	4.0	20	09/21/12 12:30	
MW-15	K1209476-006	120	4.0	20	09/21/12 12:05	
MW-15D	K1209476-007	138	4.0	20	09/21/12 12:17	
MW-18	K1209476-008	161	4.0	20	09/21/12 11:53	
MW-19	K1209476-009	132	4.0	20	09/21/12 12:42	
MW-20	K1209476-010	157	4.0	20	09/21/12 12:54	
MW-22D	K1209476-011	162	4.0	20	09/21/12 13:06	
MW-22S	K1209476-012	162	4.0	20	09/21/12 13:18	
Method Blank	K1209476-MB1	ND U	0.20	1	09/21/12 07:12	
Method Blank	K1209476-MB2	ND U	0.20	1	09/21/12 14:07	

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 Remedial
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12
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-3	K1209476-005DUP12	4.0	144	145	144	<1	20	09/21/12
MW-22D	K1209476-011DUP18	4.0	162	165	164	2	20	09/21/12

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/12
Date Received: 09/21/12
Date Analyzed: 09/21/12

**Duplicate Matrix Spike Summary
Chloride**

Sample Name: MW-3
Lab Code: K1209476-005
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209476-005MS5		Duplicate Matrix Spike K1209476-005DMS5		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	144	245	100	101	246	100	102	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/20/12
Date Received: 09/21/12
Date Analyzed: 09/21/12

**Duplicate Matrix Spike Summary
Chloride**

Sample Name: MW-22D
Lab Code: K1209476-011
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209476-011MS7		Duplicate Matrix Spike K1209476-011DMS7		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	162	262	100	99	266	100	104	90-110	2	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 Remedial
Sample Matrix: Water

Service Request: K1209476

Date Analyzed: 09/21/12

**Lab Control Sample Summary
Chloride**

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 310510

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209476-LCS1	4.93	5.00	99	90-110
Lab Control Sample	K1209476-LCS2	4.96	5.00	99	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 Remedial
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12
Units: mg/L
Basis: NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-3	K1209476-005	10.1	1.0	20	09/21/12 12:30	
MW-15	K1209476-006	6.1	1.0	20	09/21/12 12:05	
MW-15D	K1209476-007	10.7	1.0	20	09/21/12 12:17	
MW-18	K1209476-008	9.6	1.0	20	09/21/12 11:53	
MW-19	K1209476-009	9.2	1.0	20	09/21/12 12:42	
MW-20	K1209476-010	10.3	1.0	20	09/21/12 12:54	
MW-22D	K1209476-011	10.3	1.0	20	09/21/12 13:06	
MW-22S	K1209476-012	9.3	1.0	20	09/21/12 13:18	
Method Blank	K1209476-MB1	ND U	0.050	1	09/21/12 07:12	
Method Blank	K1209476-MB2	ND U	0.050	1	09/21/12 14:07	

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 Remedial
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12
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-3	K1209476-005DUP12	1.0	10.1	10.1	10.1	<1	20	09/21/12
MW-22D	K1209476-011DUP18	1.0	10.3	10.4	10.3	<1	20	09/21/12

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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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/12
Date Received: 09/21/12
Date Analyzed: 09/21/12

**Duplicate Matrix Spike Summary
Nitrate as Nitrogen**

Sample Name: MW-3
Lab Code: K1209476-005
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209476-005MS5		Result	Duplicate Matrix Spike K1209476-005DMS5		% 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

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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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/20/12
Date Received: 09/21/12
Date Analyzed: 09/21/12

**Duplicate Matrix Spike Summary
Nitrate as Nitrogen**

Sample Name: MW-22D
Lab Code: K1209476-011
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209476-011MS7		Result	Duplicate Matrix Spike K1209476-011DMS7		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Nitrate as Nitrogen	10.3	111	100	100	111	100	101	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Analyzed: 09/21/12

Lab Control Sample Summary
Nitrate as Nitrogen

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 310510

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209476-LCS1	18.5	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 Remedial
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12
Units: mg/L
Basis: NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-3	K1209476-005	35.1	2.0	20	09/21/12 12:30	
MW-15	K1209476-006	44.1	2.0	20	09/21/12 12:05	
MW-15D	K1209476-007	33.3	2.0	20	09/21/12 12:17	
MW-18	K1209476-008	36.6	2.0	20	09/21/12 11:53	
MW-19	K1209476-009	43.3	2.0	20	09/21/12 12:42	
MW-20	K1209476-010	36.2	2.0	20	09/21/12 12:54	
MW-22D	K1209476-011	35.9	2.0	20	09/21/12 13:06	
MW-22S	K1209476-012	37.4	2.0	20	09/21/12 13:18	
Method Blank	K1209476-MB1	ND U	0.10	1	09/21/12 07:12	
Method Blank	K1209476-MB2	ND U	0.10	1	09/21/12 14:07	

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 Remedial
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12
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-3	K1209476-005DUP12	2.0	35.1	35.1	35.1	<1	20	09/21/12
MW-22D	K1209476-011DUP18	2.0	35.9	35.6	35.7	<1	20	09/21/12

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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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/12
Date Received: 09/21/12
Date Analyzed: 09/21/12

Duplicate Matrix Spike Summary
Sulfate

Sample Name: MW-3
Lab Code: K1209476-005
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209476-005MS5		Result	Duplicate Matrix Spike K1209476-005DMS5		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Sulfate	35.1	140	100	105	141	100	106	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.

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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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/20/12
Date Received: 09/21/12
Date Analyzed: 09/21/12

Duplicate Matrix Spike Summary
Sulfate

Sample Name: MW-22D
Lab Code: K1209476-011
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1209476-011MS7		Duplicate Matrix Spike K1209476-011DMS7		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	35.9	138	100	102	139	100	103	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Analyzed: 09/21/12

Lab Control Sample Summary
Sulfate

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 310510

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209476-LCS1	5.02	5.00	100	90-110
Lab Control Sample	K1209476-LCS2	5.06	5.00	101	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 Remedial
Sample Matrix: Water
Analysis Method: SM 2320 B

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12

Units: mg/L
Basis: NA

Alkalinity as CaCO₃, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-3	K1209476-005	253	9.0	1	09/27/12 14:10	
MW-15	K1209476-006	553	9.0	1	09/27/12 14:10	
MW-15D	K1209476-007	289	9.0	1	09/27/12 14:10	
MW-18	K1209476-008	317	9.0	1	09/27/12 14:10	
MW-19	K1209476-009	328	9.0	1	09/27/12 14:10	
MW-20	K1209476-010	314	9.0	1	09/27/12 14:10	
MW-22D	K1209476-011	297	9.0	1	09/27/12 14:10	
MW-22S	K1209476-012	309	9.0	1	09/27/12 14:10	
Method Blank	K1209476-MB1	ND U	9.0	1	09/27/12 14:10	
Method Blank	K1209476-MB2	ND U	9.0	1	09/27/12 14:10	

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 Remedial
Sample Matrix: Water
Analysis Method: SM 2320 B

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12
Units: mg/L
Basis: NA

Duplicate Sample Summary
Alkalinity as CaCO₃, Total

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
MW-3	K1209476-005DUP12	9.0	253	256	254	1	20	09/27/12
MW-22S	K1209476-012DUP19	9.0	309	313	311	1	20	09/27/12

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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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Analyzed: 09/27/12

Lab Control Sample Summary
Alkalinity as CaCO₃, Total

Analysis Method: SM 2320 B

Units: mg/L

Basis: NA

Analysis Lot: 311510

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209476-LCS1	39.3	37.1	106	90-110
Lab Control Sample	K1209476-LCS2	38.7	37.1	104	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12
Units: mg/L
Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-3	K1209476-005	667	13	1	09/26/12 13:00	
MW-15	K1209476-006	884	13	1	09/26/12 13:00	
MW-15D	K1209476-007	628	13	1	09/26/12 13:00	
MW-18	K1209476-008	671	13	1	09/26/12 13:00	
MW-19	K1209476-009	724	13	1	09/26/12 13:00	
MW-20	K1209476-010	607	13	1	09/26/12 13:00	
MW-22D	K1209476-011	657	13	1	09/26/12 13:00	
MW-22S	K1209476-012	660	13	1	09/26/12 13:00	
Method Blank	K1209476-MB1	ND U	5.0	1	09/26/12 13:00	
Method Blank	K1209476-MB2	ND U	5.0	1	09/26/12 13:00	
Method Blank	K1209476-MB3	ND U	5.0	1	09/26/12 13:00	
Method Blank	K1209476-MB4	ND U	5.0	1	09/26/12 13:00	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/12
Date Received: 09/21/12
Date Analyzed: 09/26/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-3 **Units:** mg/L
Lab Code: K1209476-005 **Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1209476- 005DUP12 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	13	667	635	651	5	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 Remedial
Sample Matrix: Water

Service Request: K1209476

Date Analyzed: 09/26/12

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units: mg/L

Basis: NA

Analysis Lot: 311263

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209476-LCS1	1240	1240	100	90-108
Lab Control Sample	K1209476-LCS2	1290	1240	104	90-108

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12
Units: mg/L
Basis: NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-3	K1209476-005	ND U	0.050	1	09/24/12 10:10	
MW-15	K1209476-006	ND U	0.050	1	09/24/12 10:10	
MW-15D	K1209476-007	ND U	0.050	1	09/24/12 10:10	
MW-18	K1209476-008	ND U	0.050	1	09/24/12 10:10	
MW-19	K1209476-009	ND U	0.050	1	09/24/12 10:10	
MW-20	K1209476-010	ND U	0.050	1	09/24/12 10:10	
MW-22D	K1209476-011	ND U	0.050	1	09/24/12 10:10	
MW-22S	K1209476-012	ND U	0.050	1	09/24/12 10:10	
Method Blank	K1209476-MB1	ND U	0.050	1	09/24/12 10:10	
Method Blank	K1209476-MB2	ND U	0.050	1	09/24/12 10:10	

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 Remedial
Sample Matrix: Water
Analysis Method: SM 4500-NH3 E

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12
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
MW-3	K1209476-005DUP12	0.050	ND	ND	NC	NC	20	09/24/12
MW-22S	K1209476-012DUP19	0.050	ND	ND	NC	NC	20	09/24/12

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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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/12
Date Received: 09/21/12
Date Analyzed: 09/24/12

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-3
Lab Code: K1209476-005
Analysis Method: SM 4500-NH3 E

Units: mg/L
Basis: NA

Matrix Spike
K1209476-005MS6

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen	ND	9.41	10.0	94	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/20/12
Date Received: 09/21/12
Date Analyzed: 09/24/12

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-22S
Lab Code: K1209476-012
Analysis Method: SM 4500-NH3 E

Units: mg/L
Basis: NA

Matrix Spike
K1209476-012MS8

<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	9.65	10.0	97	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 Remedial
Sample Matrix: Water

Service Request: K1209476

Date Analyzed: 09/24/12

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: SM 4500-NH3 E

Units: mg/L

Basis: NA

Analysis Lot: 310783

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209476-LCS1	15.4	13.9	111	80-115
Lab Control Sample	K1209476-LCS2	14.8	13.9	106	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 Remedial
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12
Units: mg/L
Basis: NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-3	K1209476-005	0.57	0.50	1	09/28/12 19:53	
MW-15	K1209476-006	1.25	0.50	1	09/28/12 19:53	
MW-15D	K1209476-007	ND U	0.50	1	09/28/12 19:53	
MW-18	K1209476-008	ND U	0.50	1	09/28/12 19:53	
MW-19	K1209476-009	0.54	0.50	1	09/28/12 19:53	
MW-20	K1209476-010	ND U	0.50	1	09/28/12 19:53	
MW-22D	K1209476-011	ND U	0.50	1	09/28/12 19:53	
MW-22S	K1209476-012	ND U	0.50	1	09/28/12 19:53	
Method Blank	K1209476-MB1	ND U	0.50	1	09/28/12 19:53	
Method Blank	K1209476-MB2	ND U	0.50	1	09/28/12 19:53	
Method Blank	K1209476-MB3	ND U	0.50	1	09/28/12 19:53	
Method Blank	K1209476-MB4	ND U	0.50	1	09/28/12 19:53	

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 Remedial
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1209476
Date Collected: 09/19/12 - 09/20/12
Date Received: 09/21/12
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-3	K1209476-005DUP12	0.50	0.57	ND	NC	NC	10	09/28/12
MW-15	K1209476-006DUP13	0.50	1.25	1.22	1.24	3	10	09/28/12
MW-15D	K1209476-007DUP14	0.50	ND	ND	NC	NC	10	09/28/12
MW-18	K1209476-008DUP15	0.50	ND	0.56	NC	NC	10	09/28/12
MW-19	K1209476-009DUP16	0.50	0.54	0.52	0.531	3	10	09/28/12
MW-20	K1209476-010DUP17	0.50	ND	ND	NC	NC	10	09/28/12
MW-22D	K1209476-011DUP18	0.50	ND	ND	NC	NC	10	09/28/12
MW-22S	K1209476-012DUP19	0.50	ND	ND	NC	NC	10	09/28/12

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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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/12
Date Received: 09/21/12
Date Analyzed: 09/28/12

Matrix Spike Summary
Carbon, Total Organic

Sample Name: MW-3
Lab Code: K1209476-005
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Matrix Spike
K1209476-005MS6

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic	0.57	26.2	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 Remedial
Sample Matrix: Water

Service Request: K1209476

Date Analyzed: 09/28/12

Lab Control Sample Summary
Carbon, Total Organic

Analysis Method: SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 311738

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1209476-LCS1	22.2	22.7	98	83-117
Lab Control Sample	K1209476-LCS2	22.2	22.7	98	83-117
Lab Control Sample	K1209476-LCS3	22.0	22.7	97	83-117
Lab Control Sample	K1209476-LCS4	21.9	22.7	97	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 Remedial
Project No.:

Service Request: K1209476

<u>Sample Name:</u>	<u>Lab Code:</u>
<u>MW-3</u>	<u>K1209476-005DISS</u>
<u>MW-3D</u>	<u>K1209476-005DISSD</u>
<u>MW-3S</u>	<u>K1209476-005DISSS</u>
<u>MW-15</u>	<u>K1209476-006DISS</u>
<u>MW-15D</u>	<u>K1209476-007DISS</u>
<u>MW-18</u>	<u>K1209476-008DISS</u>
<u>MW-19</u>	<u>K1209476-009DISS</u>
<u>MW-20</u>	<u>K1209476-010DISS</u>
<u>MW-22D</u>	<u>K1209476-011DISS</u>
<u>MW-22S</u>	<u>K1209476-012DISS</u>
<u>Method Blank</u>	<u>K1209476-MB</u>

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1209476
 Project No.: NA Date Collected: 9/19/2012
 Project Name: City of Walla Walla Sudbury Roa Date Received: 9/21/2012
 Matrix: WATER Units: ug/L
 Basis: NA

Sample Name: MW-3 Lab Code: K1209476-005DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	10/04/12	105000		
Iron	6010C	10.0	1.0	09/27/12	10/04/12	10.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	10/04/12	48000		
Manganese	6010C	2.0	1.0	09/27/12	10/04/12	2.0	U	
Potassium	6010C	100	1.0	09/27/12	10/04/12	6890		
Sodium	6010C	200	1.0	09/27/12	10/04/12	16700		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209476
Project No.: NA **Date Collected:** 9/19/2012
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 9/21/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-15 **Lab Code:** K1209476-006DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	10/04/12	162000		
Iron	6010C	10.0	1.0	09/27/12	10/04/12	10.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	10/04/12	48100		
Manganese	6010C	2.0	1.0	09/27/12	10/04/12	49.6		
Potassium	6010C	100	1.0	09/27/12	10/04/12	8190		
Sodium	6010C	200	1.0	09/27/12	10/04/12	68200		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

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Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209476
Project No.: NA **Date Collected:** 9/19/2012
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 9/21/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-15D **Lab Code:** K1209476-007DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	10/04/12	117000		
Iron	6010C	10.0	1.0	09/27/12	10/04/12	13.7		
Magnesium	6010C	20.0	1.0	09/27/12	10/04/12	50300		
Manganese	6010C	2.0	1.0	09/27/12	10/04/12	2.0	U	
Potassium	6010C	100	1.0	09/27/12	10/04/12	7330		
Sodium	6010C	200	1.0	09/27/12	10/04/12	19100		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209476
Project No.: NA **Date Collected:** 9/19/2012
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 9/21/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-18 **Lab Code:** K1209476-008DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	10/04/12	123000		
Iron	6010C	10.0	1.0	09/27/12	10/04/12	10.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	10/04/12	51400		
Manganese	6010C	2.0	1.0	09/27/12	10/04/12	2.0	U	
Potassium	6010C	100	1.0	09/27/12	10/04/12	8010		
Sodium	6010C	200	1.0	09/27/12	10/04/12	28700		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209476
Project No.: NA **Date Collected:** 9/19/2012
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 9/21/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-19 **Lab Code:** K1209476-009DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	10/04/12	121000		
Iron	6010C	10.0	1.0	09/27/12	10/04/12	20.9		
Magnesium	6010C	20.0	1.0	09/27/12	10/04/12	49600		
Manganese	6010C	2.0	1.0	09/27/12	10/04/12	13.9		
Potassium	6010C	100	1.0	09/27/12	10/04/12	7450		
Sodium	6010C	200	1.0	09/27/12	10/04/12	21000		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
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Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1209476
 Project No.: NA Date Collected: 9/19/2012
 Project Name: City of Walla Walla Sudbury Roa Date Received: 9/21/2012
 Matrix: WATER Units: ug/L
 Basis: NA

Sample Name: MW-20 Lab Code: K1209476-010DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	10/04/12	121000		
Iron	6010C	10.0	1.0	09/27/12	10/04/12	10.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	10/04/12	51100		
Manganese	6010C	2.0	1.0	09/27/12	10/04/12	8.2		
Potassium	6010C	100	1.0	09/27/12	10/04/12	7840		
Sodium	6010C	200	1.0	09/27/12	10/04/12	26800		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209476
Project No.: NA **Date Collected:** 9/20/2012
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 9/21/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-22D **Lab Code:** K1209476-011DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	10/04/12	124000		
Iron	6010C	10.0	1.0	09/27/12	10/04/12	10.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	10/04/12	53900		
Manganese	6010C	2.0	1.0	09/27/12	10/04/12	105		
Potassium	6010C	100	1.0	09/27/12	10/04/12	7580		
Sodium	6010C	200	1.0	09/27/12	10/04/12	19200		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209476
Project No.: NA **Date Collected:** 9/20/2012
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 9/21/2012
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-22S **Lab Code:** K1209476-012DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	10/04/12	122000		
Iron	6010C	10.0	1.0	09/27/12	10/04/12	10.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	10/04/12	50300		
Manganese	6010C	2.0	1.0	09/27/12	10/04/12	3.0		
Potassium	6010C	100	1.0	09/27/12	10/04/12	7480		
Sodium	6010C	200	1.0	09/27/12	10/04/12	24600		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1209476
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:** K1209476-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	09/27/12	10/04/12	50.0	U	
Iron	6010C	10.0	1.0	09/27/12	10/04/12	10.0	U	
Magnesium	6010C	20.0	1.0	09/27/12	10/04/12	20.0	U	
Manganese	6010C	2.0	1.0	09/27/12	10/04/12	2.0	U	
Potassium	6010C	100	1.0	09/27/12	10/04/12	100	U	
Sodium	6010C	200	1.0	09/27/12	10/04/12	200	U	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Metals

- 6 -

DUPLICATES

Client: Schwyn Environmental Services

Service Request: K1209476

Project No.: NA

Units: UG/L

Project Name: City of Walla Walla Sudbury Roa

Basis: NA

Matrix: WATER

Sample Name: MW-3D

Lab Code: K1209476-005DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	105000		106000		0.9		6010C
Iron		10.0	U	10.0	U			6010C
Magnesium	20	48000		48700		1.4		6010C
Manganese		2.0	U	2.0	U			6010C
Potassium	20	6890		6960		1.0		6010C
Sodium	20	16700		16900		1.2		6010C

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

Metals
 - 7 -

LABORATORY CONTROL SAMPLE

Client: Schwyn Environmental Services

Service Request: K1209476

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	2440	97.6					
Magnesium	12500	12700	101.6					
Manganese	1250	1230	98.4					
Potassium	12500	12500	100.0					
Sodium	12500	13100	104.8					

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Camp **Units:** ng/L
Lab Code: K1209476-001 **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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	119	77-123	09/24/12	Acceptable
Toluene-d8	104	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Kinman
Lab Code: K1209476-002
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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	119	77-123	09/24/12	Acceptable
Toluene-d8	104	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	81	46-118	09/24/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Schmidt **Units:** ng/L
Lab Code: K1209476-003 **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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	77-123	09/24/12	Acceptable
Toluene-d8	104	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	80	46-118	09/24/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Small **Units:** ng/L
Lab Code: K1209476-004 **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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	77-123	09/24/12	Acceptable
Toluene-d8	104	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	78	46-118	09/24/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1209476-005
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	09/25/12	09/25/12	KWG1211269	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	118	77-123	09/25/12	Acceptable
Toluene-d8	106	74-112	09/25/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-15 **Units:** ng/L
Lab Code: K1209476-006 **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	1200		20	1	09/25/12	09/25/12	KWG1211269	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	77-123	09/25/12	Acceptable
Toluene-d8	106	74-112	09/25/12	Acceptable
4-Bromofluorobenzene	78	46-118	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1209476-007
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	09/25/12	09/25/12	KWG1211269	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	77-123	09/25/12	Acceptable
Toluene-d8	106	74-112	09/25/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-18 **Units:** ng/L
Lab Code: K1209476-008 **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	09/25/12	09/25/12	KWG1211269	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	77-123	09/25/12	Acceptable
Toluene-d8	105	74-112	09/25/12	Acceptable
4-Bromofluorobenzene	80	46-118	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-19
Lab Code: K1209476-009
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	09/25/12	09/25/12	KWG1211269	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	77-123	09/25/12	Acceptable
Toluene-d8	105	74-112	09/25/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-20
Lab Code: K1209476-010
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	09/25/12	09/25/12	KWG1211269	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	77-123	09/25/12	Acceptable
Toluene-d8	105	74-112	09/25/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/20/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-22D **Units:** ng/L
Lab Code: K1209476-011 **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	09/25/12	09/25/12	KWG1211269	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	77-123	09/25/12	Acceptable
Toluene-d8	105	74-112	09/25/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/20/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-22S
Lab Code: K1209476-012
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	09/29/12	09/29/12	KWG1211539	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	117	77-123	09/29/12	Acceptable
Toluene-d8	96	74-112	09/29/12	Acceptable
4-Bromofluorobenzene	76	46-118	09/29/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1209476-013
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	09/25/12	09/25/12	KWG1211269	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	117	77-123	09/25/12	Acceptable
Toluene-d8	107	74-112	09/25/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** ng/L
Lab Code: KWG1211189-4 **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	09/24/12	09/24/12	KWG1211189	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	111	77-123	09/24/12	Acceptable
Toluene-d8	109	74-112	09/24/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/24/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** ng/L
Lab Code: KWG1211269-4 **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	09/25/12	09/25/12	KWG1211269	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	113	77-123	09/25/12	Acceptable
Toluene-d8	108	74-112	09/25/12	Acceptable
4-Bromofluorobenzene	79	46-118	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank **Units:** ng/L
Lab Code: KWG1211539-4 **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	09/29/12	09/29/12	KWG1211539	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	113	77-123	09/29/12	Acceptable
Toluene-d8	98	74-112	09/29/12	Acceptable
4-Bromofluorobenzene	76	46-118	09/29/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476

**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>
Camp	K1209476-001	119	104	79
Kinman	K1209476-002	119	104	81
Schmidt	K1209476-003	120	104	80
Small	K1209476-004	121	104	78
MW-3	K1209476-005	118	106	79
MW-15	K1209476-006	120	106	78
MW-15D	K1209476-007	120	106	79
MW-18	K1209476-008	121	105	80
MW-19	K1209476-009	121	105	79
MW-20	K1209476-010	121	105	79
MW-22D	K1209476-011	121	105	79
MW-22S	K1209476-012	117	96	76
Trip Blank	K1209476-013	117	107	79
Method Blank	KWG1211189-4	111	109	79
Method Blank	KWG1211269-4	113	108	79
Method Blank	KWG1211539-4	113	98	76
MW-3MS	KWG1211269-1	111	112	105
MW-3DMS	KWG1211269-2	110	113	* 105
Lab Control Sample	KWG1211189-3	108	114	* 105
Lab Control Sample	KWG1211269-3	111	111	107
Lab Control Sample	KWG1211539-3	109	100	107

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Extracted: 09/25/2012
Date Analyzed: 09/25/2012

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1209476-005
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1211269

Analyte Name	Sample Result	MW-3MS KWG1211269-1 Matrix Spike			MW-3DMS KWG1211269-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	2020	2000	101	1880	2000	94	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Extracted: 09/24/2012
Date Analyzed: 09/24/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1211189

Lab Control Sample
KWG1211189-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2330	2000	116	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Extracted: 09/25/2012
Date Analyzed: 09/25/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1211269

Lab Control Sample
KWG1211269-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	2280	2000	114	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Extracted: 09/29/2012
Date Analyzed: 09/29/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1211539

Lab Control Sample
KWG1211539-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Vinyl Chloride	1960	2000	98	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

Analytical Results

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

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Camp
Lab Code: K1209476-001
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	0.73		0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Camp
Lab Code: K1209476-001
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	09/25/12	Acceptable
Toluene-d8	100	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	89	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Kinman
Lab Code: K1209476-002
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Kinman
Lab Code: K1209476-002
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	09/25/12	Acceptable
Toluene-d8	98	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	92	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Schmidt
Lab Code: K1209476-003
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Schmidt
Lab Code: K1209476-003
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	94	73-122	09/25/12	Acceptable
Toluene-d8	98	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Small
Lab Code: K1209476-004
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	1.2		0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Small
Lab Code: K1209476-004
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/25/12	Acceptable
Toluene-d8	98	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1209476-005
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	0.51		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	0.86		0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1209476-005
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/25/12	Acceptable
Toluene-d8	98	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	89	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1209476-006
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	1.9		0.50	1	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	0.87		0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	3.9		0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	12		0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	1.8		0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	5.3		0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1209476-006
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/25/12	Acceptable
Toluene-d8	97	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1209476-007
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	0.62		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	0.53		0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	0.94		0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1209476-007
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	09/25/12	Acceptable
Toluene-d8	97	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	92	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-18
Lab Code: K1209476-008
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	0.82		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	0.58		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	0.99		0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-18
Lab Code: K1209476-008
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	73-122	09/25/12	Acceptable
Toluene-d8	97	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-19
Lab Code: K1209476-009
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	0.51		0.50	1	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	0.90		0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	7.8		0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	1.1		0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	1.2		0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-19
Lab Code: K1209476-009
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/25/12	Acceptable
Toluene-d8	98	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	90	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-20
Lab Code: K1209476-010
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	0.66		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	0.51		0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	0.52		0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	1.1		0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/19/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-20
Lab Code: K1209476-010
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	91	73-122	09/25/12	Acceptable
Toluene-d8	98	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/20/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-22D
Lab Code: K1209476-011
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	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.56		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	0.78		0.50	1	09/27/12	09/27/12	KWG1211401	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/20/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-22D
Lab Code: K1209476-011
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	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	09/27/12	Acceptable
Toluene-d8	97	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	92	68-117	09/27/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/20/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-22S
Lab Code: K1209476-012
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	0.50		0.50	1	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	0.74		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	0.57		0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	0.84		0.50	1	09/27/12	09/27/12	KWG1211401	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/20/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: MW-22S
Lab Code: K1209476-012
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
2-Hexanone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	90	73-122	09/27/12	Acceptable
Toluene-d8	97	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	89	68-117	09/27/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1209476-013
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	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: 09/18/2012
Date Received: 09/21/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1209476-013
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
2-Hexanone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	09/25/12	Acceptable
Toluene-d8	99	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	89	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1211259-4
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	09/25/12	09/25/12	KWG1211259	
Chloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Chloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichlorofluoromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Acetone	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Iodomethane	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
Carbon Disulfide	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Methylene Chloride	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Acrylonitrile	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1-Dichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Vinyl Acetate	ND	U	5.0	1	09/25/12	09/25/12	KWG1211259	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
2-Butanone (MEK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Bromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Chloroform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Carbon Tetrachloride	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Benzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Trichloroethene (TCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Dibromomethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromodichloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/25/12	09/25/12	KWG1211259	
Toluene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,2-Trichloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Tetrachloroethene (PCE)	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1211259-4
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	09/25/12	09/25/12	KWG1211259	
Dibromochloromethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	
Chlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Ethylbenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
m,p-Xylenes	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
o-Xylene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Styrene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
Bromoform	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/25/12	09/25/12	KWG1211259	
1,2,3-Trichloropropane	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,4-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dichlorobenzene	ND	U	0.50	1	09/25/12	09/25/12	KWG1211259	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/25/12	09/25/12	KWG1211259	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	92	73-122	09/25/12	Acceptable
Toluene-d8	98	65-144	09/25/12	Acceptable
4-Bromofluorobenzene	92	68-117	09/25/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1211401-4
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	09/27/12	09/27/12	KWG1211401	
Chloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Chloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichlorofluoromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Acetone	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Iodomethane	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
Carbon Disulfide	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Methylene Chloride	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Acrylonitrile	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
trans-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1-Dichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Vinyl Acetate	ND	U	5.0	1	09/27/12	09/27/12	KWG1211401	
cis-1,2-Dichloroethene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
2-Butanone (MEK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Bromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Chloroform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Carbon Tetrachloride	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Benzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Trichloroethene (TCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Dibromomethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromodichloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
cis-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	09/27/12	09/27/12	KWG1211401	
Toluene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,3-Dichloropropene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,2-Trichloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Tetrachloroethene (PCE)	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1211401-4
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	09/27/12	09/27/12	KWG1211401	
Dibromochloromethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	
Chlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Ethylbenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
m,p-Xylenes	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
o-Xylene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Styrene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
Bromoform	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
trans-1,4-Dichloro-2-butene	ND	U	10	1	09/27/12	09/27/12	KWG1211401	
1,2,3-Trichloropropane	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,4-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dichlorobenzene	ND	U	0.50	1	09/27/12	09/27/12	KWG1211401	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	09/27/12	09/27/12	KWG1211401	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	93	73-122	09/27/12	Acceptable
Toluene-d8	98	65-144	09/27/12	Acceptable
4-Bromofluorobenzene	91	68-117	09/27/12	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 Remedial
Sample Matrix: Water

Service Request: K1209476

**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>
Camp	K1209476-001	94	100	89
Kinman	K1209476-002	94	98	92
Schmidt	K1209476-003	94	98	91
Small	K1209476-004	92	98	91
MW-3	K1209476-005	92	98	89
MW-15	K1209476-006	92	97	91
MW-15D	K1209476-007	93	97	92
MW-18	K1209476-008	91	97	91
MW-19	K1209476-009	92	98	90
MW-20	K1209476-010	91	98	91
MW-22D	K1209476-011	93	97	92
MW-22S	K1209476-012	90	97	89
Trip Blank	K1209476-013	93	99	89
Method Blank	KWG1211259-4	92	98	92
Method Blank	KWG1211401-4	93	98	91
MW-3MS	KWG1211259-1	93	99	93
MW-3DMS	KWG1211259-2	96	101	93
Lab Control Sample	KWG1211259-3	94	101	92
Lab Control Sample	KWG1211401-3	94	101	95

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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Extracted: 09/25/2012
Date Analyzed: 09/25/2012

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1209476-005
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211259

Analyte Name	Sample Result	MW-3MS KWG1211259-1 Matrix Spike			MW-3DMS KWG1211259-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Vinyl Chloride	ND	8.72	10.0	87	8.46	10.0	85	49-136	3	30
1,1-Dichloroethene	ND	9.79	10.0	98	9.81	10.0	98	59-171	0	30
Chloroform	0.51	9.67	10.0	92	9.52	10.0	90	64-133	2	30
Carbon Tetrachloride	ND	8.33	10.0	83	8.17	10.0	82	53-161	2	30
Benzene	ND	9.36	10.0	94	9.21	10.0	92	63-144	2	30
Trichloroethene (TCE)	ND	9.83	10.0	98	9.49	10.0	95	53-139	4	30
Bromodichloromethane	ND	8.51	10.0	85	8.32	10.0	83	61-134	2	30
Toluene	ND	9.12	10.0	91	8.88	10.0	89	71-136	3	30
1,1,2-Trichloroethane	ND	8.79	10.0	88	8.66	10.0	87	74-124	1	30
2-Hexanone	ND	40.2	50.0	80	39.6	50.0	79	53-132	2	30
Chlorobenzene	ND	8.84	10.0	88	8.33	10.0	83	69-126	6	30
Ethylbenzene	ND	8.92	10.0	89	8.41	10.0	84	66-136	6	30
1,2,3-Trichloropropane	ND	8.43	10.0	84	8.33	10.0	83	71-127	1	30
1,2-Dichlorobenzene	ND	8.44	10.0	84	8.12	10.0	81	72-119	4	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Extracted: 09/25/2012
Date Analyzed: 09/25/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211259

Lab Control Sample
 KWG1211259-3
 Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	7.96	10.0	80	32-124
Chloromethane	9.20	10.0	92	34-130
Vinyl Chloride	8.39	10.0	84	55-123
Bromomethane	9.00	10.0	90	35-113
Chloroethane	9.09	10.0	91	58-134
Trichlorofluoromethane	7.02	10.0	70	52-141
1,1-Dichloroethene	9.85	10.0	99	66-129
Acetone	45.9	50.0	92	68-135
Iodomethane	34.8	30.0	116	51-164
Carbon Disulfide	16.6	20.0	83	46-144
Methylene Chloride	9.15	10.0	92	71-122
Acrylonitrile	36.5	40.0	91	65-129
trans-1,2-Dichloroethene	9.45	10.0	95	67-125
1,1-Dichloroethane	9.44	10.0	94	68-132
Vinyl Acetate	66.5	50.0	133	44-156
cis-1,2-Dichloroethene	8.90	10.0	89	71-118
2-Butanone (MEK)	43.8	50.0	88	71-149
Bromochloromethane	8.46	10.0	85	75-131
Chloroform	8.74	10.0	87	70-129
1,1,1-Trichloroethane (TCA)	8.18	10.0	82	59-136
Carbon Tetrachloride	8.09	10.0	81	55-140
Benzene	9.12	10.0	91	69-124
1,2-Dichloroethane (EDC)	8.35	10.0	84	56-142
Trichloroethene (TCE)	9.15	10.0	92	67-128
1,2-Dichloropropane	9.14	10.0	91	67-126
Dibromomethane	7.95	10.0	80	69-128
Bromodichloromethane	8.16	10.0	82	63-129
cis-1,3-Dichloropropene	8.17	10.0	82	62-132
4-Methyl-2-pentanone (MIBK)	41.0	50.0	82	64-134
Toluene	8.84	10.0	88	69-124
trans-1,3-Dichloropropene	7.83	10.0	78	59-125
1,1,2-Trichloroethane	8.35	10.0	84	74-118
Tetrachloroethene (PCE)	8.77	10.0	88	62-126
2-Hexanone	39.0	50.0	78	59-131
Dibromochloromethane	7.37	10.0	74	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Extracted: 09/25/2012
Date Analyzed: 09/25/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211259

Lab Control Sample
 KWG1211259-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	8.07	10.0	81	74-118
Chlorobenzene	8.52	10.0	85	72-116
Ethylbenzene	8.55	10.0	86	67-121
1,1,1,2-Tetrachloroethane	7.93	10.0	79	66-124
m,p-Xylenes	17.0	20.0	85	69-121
o-Xylene	8.69	10.0	87	71-119
Styrene	8.71	10.0	87	74-121
Bromoform	6.99	10.0	70	52-144
cis-1,4-Dichloro-2-butene	27.5	30.0	92	26-171
1,1,2,2-Tetrachloroethane	8.27	10.0	83	70-127
trans-1,4-Dichloro-2-butene	23.5	30.0	78	46-170
1,2,3-Trichloropropane	7.95	10.0	80	69-123
1,4-Dichlorobenzene	8.21	10.0	82	73-115
1,2-Dichlorobenzene	8.11	10.0	81	72-115
1,2-Dibromo-3-chloropropane	7.78	10.0	78	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

QA/QC Report

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

Service Request: K1209476
Date Extracted: 09/27/2012
Date Analyzed: 09/27/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211401

Lab Control Sample
 KWG1211401-3
 Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Dichlorodifluoromethane	9.28	10.0	93	32-124
Chloromethane	10.1	10.0	101	34-130
Vinyl Chloride	9.32	10.0	93	55-123
Bromomethane	9.44	10.0	94	35-113
Chloroethane	9.65	10.0	97	58-134
Trichlorofluoromethane	7.34	10.0	73	52-141
1,1-Dichloroethene	10.4	10.0	104	66-129
Acetone	46.5	50.0	93	68-135
Iodomethane	33.6	30.0	112	51-164
Carbon Disulfide	18.7	20.0	93	46-144
Methylene Chloride	9.55	10.0	96	71-122
Acrylonitrile	37.1	40.0	93	65-129
trans-1,2-Dichloroethene	9.86	10.0	99	67-125
1,1-Dichloroethane	10.0	10.0	100	68-132
Vinyl Acetate	67.6	50.0	135	44-156
cis-1,2-Dichloroethene	9.27	10.0	93	71-118
2-Butanone (MEK)	46.0	50.0	92	71-149
Bromochloromethane	8.89	10.0	89	75-131
Chloroform	9.26	10.0	93	70-129
1,1,1-Trichloroethane (TCA)	8.63	10.0	86	59-136
Carbon Tetrachloride	8.41	10.0	84	55-140
Benzene	9.65	10.0	97	69-124
1,2-Dichloroethane (EDC)	8.68	10.0	87	56-142
Trichloroethene (TCE)	9.60	10.0	96	67-128
1,2-Dichloropropane	9.71	10.0	97	67-126
Dibromomethane	8.43	10.0	84	69-128
Bromodichloromethane	8.45	10.0	85	63-129
cis-1,3-Dichloropropene	8.53	10.0	85	62-132
4-Methyl-2-pentanone (MIBK)	45.0	50.0	90	64-134
Toluene	9.24	10.0	92	69-124
trans-1,3-Dichloropropene	8.31	10.0	83	59-125
1,1,2-Trichloroethane	8.90	10.0	89	74-118
Tetrachloroethene (PCE)	9.07	10.0	91	62-126
2-Hexanone	42.4	50.0	85	59-131
Dibromochloromethane	7.94	10.0	79	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 Remedial
Sample Matrix: Water

Service Request: K1209476
Date Extracted: 09/27/2012
Date Analyzed: 09/27/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1211401

Lab Control Sample
 KWG1211401-3
Lab Control Spike

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
1,2-Dibromoethane (EDB)	8.49	10.0	85	74-118
Chlorobenzene	8.91	10.0	89	72-116
Ethylbenzene	9.20	10.0	92	67-121
1,1,1,2-Tetrachloroethane	8.38	10.0	84	66-124
m,p-Xylenes	18.1	20.0	90	69-121
o-Xylene	9.22	10.0	92	71-119
Styrene	9.13	10.0	91	74-121
Bromoform	7.26	10.0	73	52-144
cis-1,4-Dichloro-2-butene	25.8	30.0	86	26-171
1,1,2,2-Tetrachloroethane	9.24	10.0	92	70-127
trans-1,4-Dichloro-2-butene	23.0	30.0	77	46-170
1,2,3-Trichloropropane	8.40	10.0	84	69-123
1,4-Dichlorobenzene	9.06	10.0	91	73-115
1,2-Dichlorobenzene	8.70	10.0	87	72-115
1,2-Dibromo-3-chloropropane	8.44	10.0	84	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.