



June 29, 2012

Analytical Report for Service Request No: K1205587

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

RE: City of Walla Walla Sudbury Rd. LF RI

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on June 09, 2012. For your reference, these analyses have been assigned our service request number K1205587.

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.

Ed Wallace
Project Manager

EW/rh

Page 1 of 82



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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. - 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.pjllabs.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	704427-08-TX
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C1203
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.caslab.com	NA

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

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

ALS ENVIRONMENTAL

Client: Schwyn Environmental Services Service Request No.: K1205587
Project: City of Walla Walla Sudbury Rd. LF RI Date Received: 06/09/12
Sample Matrix: Water

CASE NARRATIVE

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

Sample Receipt

Seven water samples and one trip blank were received for analysis at ALS Environmental on 06/09/12. The samples were received in good condition and consistent with the accompanying chain of custody form, except as noted on the cooler receipt form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Total Organic Carbon by Standard Method 5310 C:

The Relative Percent Difference (RPD) criterion for the replicate analysis of Total Organic Carbon in sample MW-15D was not applicable because the analyte concentration was not significantly greater than the Method Reporting Limit (MRL). Analytical values derived from measurements close to the detection limit are not subject to the same accuracy and precision criteria as results derived from measurements higher on the calibration range for the method.

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

Dissolved Metals

Matrix Spike Recovery Exceptions:

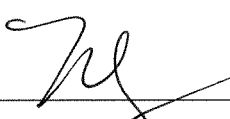
The control criteria for matrix spike recovery of Calcium and Magnesium for sample MW-16 were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

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

Volatile Organic Compounds by EPA Method 8260

Calibration Verification Exceptions:

The following analytes were flagged as outside the lower control criterion for Continuing Calibration Verification (CCV) J:\MS13\0622F003.D: trans-1,3-Dichloropropene, Bromoform, cis-1,4-Dichloro-2-butene, trans-1,4-Dichloro-2-butene, and 1,2-Dibromo-3-chloropropane. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

Approved by  Date 06/29/12

Surrogate Exceptions:

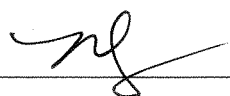
The upper control criterion was exceeded for 4-Bromofluorobenzene in samples MW-25. No target analytes were detected in the sample at or above the Method Reporting Limit (MRL). The error associated with an elevated recovery equated to a high bias. The quality of the sample data was not significantly affected. No further corrective action was appropriate.

The upper control criterion was exceeded for Toluene-d8 in several samples for the SIM analysis. Since the target analyte is not associated with the surrogate, the data quality was not significantly affected. No further corrective action was appropriate. No further corrective action was appropriate.

Sample Notes and Discussion:

Vinyl Chloride was analyzed and reported at a standard MRL of 0.5 ug/L by EPA 8260 and at an MRL of 0.02 ug/L using Selective Ion Monitoring (SIM) per client request. Both sets of results are included in this report.

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

Approved by  Date 06/29/12

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:

Sample I.D.	Date	Time	LAB ID	Matrix
MW-16	6/8/12	8:00		Water
MW-15D		9:00		
MW-3		9:45		
MW-20		10:15		
MW-12b		10:45		
MW-25		11:30		
MW-26		12:30		

Number of Containers	VOCs (8260B special list)	Vinyl Chloride by 8260 SIM	[Chloride, Nitrate, Sulfate (Method 300.0)] [Ca, Mg, Mn, K, Na (Method 6010)] [Alkalinity (Method 2320B)] [Ammonia (SM 4500)] [TOC (Method 415.1)] [TDS (SM 2540C)]	Appendix III Parameters (see below)	MS/MSD	REMARKS
20	X	X	X		X	
10	X	X	X			
10	X	X	X			
10	X	X	X			
10	X	X	X			
10	X	X	X			
10	X	X	X			

URNAROUND REQUIREMENTS
 24 hr 48 hr 5 day
 Standard (21 days)
 Provide FAX Preliminary Results
 Requested Report Date: _____
Invoice Information
 P.O. # _____
 Bill to: Schwyn Environmental Services

REPORT REQUIREMENTS
 I. Routine Report: Results, Method Blank, Surrogate, as required
 II. Report Dup., MS, MSD as required
 III. Data Validation Report (includes raw data)
 IV. CLP Deliverable Report
 V. EDD

Appendix III Parameters
 Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C
 Total Metals: Ni, Hg by USEPA Method 6010C, and 7470A
 Organochlorine pesticides by USEPA Method 8081A
 PCBs (Aroclors) by USEPA Method 8082
 Organophosphorus compounds by USEPA Method 8141A
 Chlorinated herbicides by USEPA Method 8151A
 SVOCs USEPA Method 8270D
 Total cyanide by SM 4500 S2 D and Total sulfide by EPA 335.4

RELINQUISHED BY:
 Signature: Craig Schwyn
 Printed Name: Craig Schwyn
 Firm: Schwyn Environmental Services
 Date/Time: 1:30 6/8/12

RECEIVED BY:
 Signature: Fed Ex
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RELINQUISHED BY:
 Signature: _____
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RECEIVED BY:
 Signature: [Signature]
 Printed Name: Broad Tobias
 Firm: ALS
 Date/Time: 6/9/12 10:15



PC Ed

Cooler Receipt and Preservation Form

Client / Project: Schwyn Service Request K12 05587

Received: 6/9/12 Opened: 6/9/12 By: PST Unloaded: 6/9/12 By: PST

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

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID <input checked="" type="radio"/> <u>NA</u>	Tracking Number	NA	Filed
<u>-0.5</u>	<u>1.2</u>	<u>302</u>				<u>X</u>
<u>-0.4</u>	<u>0.0</u>	<u>289</u>				<u>X</u>

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

Sample ID on Bottle	Sample ID on COC	Identified by:

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

Notes, Discrepancies, & Resolutions: Rec'd 2 trips not listed on COC.

SHORT HOLD TIME

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1205587
Date Collected: 06/8/12
Date Received: 06/9/12

Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1205587-001	145	4.0	20	06/09/12 11:10	
MW-15D	K1205587-002	136	4.0	20	06/09/12 11:23	
MW-3	K1205587-003	138	4.0	20	06/09/12 11:37	
MW-20	K1205587-004	150	4.0	20	06/09/12 11:50	
MW-12b	K1205587-005	139	4.0	20	06/09/12 12:04	
MW-25	K1205587-006	60.3	4.0	20	06/09/12 12:17	
MW-26	K1205587-007	110	4.0	20	06/09/12 12:30	
Method Blank	K1205587-MB1	ND U	0.20	1	06/09/12 07:57	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
Date Analyzed: 06/09/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-16
Lab Code: K1205587-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205587-001DUP20 Result	Average	RPD	RPD Limit
Chloride	300.0	4.0	145	144	145	<1	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
Date Analyzed: 06/9/12

**Duplicate Matrix Spike Summary
Chloride**

Sample Name: MW-16
Lab Code: K1205587-001
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1205587-001MS2		Duplicate Matrix Spike K1205587-001DMS2		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	145	237	100	92	238	100	92	90-110	<1	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587

Date Analyzed: 06/09/12

Lab Control Sample Summary
Chloride

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 295355

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1205587-LCS3	4.70	5.00	94	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1205587
Date Collected: 06/8/12
Date Received: 06/9/12

Units: mg/L
Basis: NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1205587-001	8.7	1.0	20	06/09/12 11:10	
MW-15D	K1205587-002	10.7	1.0	20	06/09/12 11:23	
MW-3	K1205587-003	9.8	1.0	20	06/09/12 11:37	
MW-20	K1205587-004	9.7	1.0	20	06/09/12 11:50	
MW-12b	K1205587-005	9.6	1.0	20	06/09/12 12:04	
MW-25	K1205587-006	7.5	1.0	20	06/09/12 12:17	
MW-26	K1205587-007	8.2	1.0	20	06/09/12 12:30	
Method Blank	K1205587-MB1	ND U	0.050	1	06/09/12 07:57	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
Date Analyzed: 06/09/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-16
Lab Code: K1205587-001

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1205587-001DUP20 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Nitrate as Nitrogen	300.0	1.0	8.7	8.5	8.57	2	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
Date Analyzed: 06/9/12

**Duplicate Matrix Spike Summary
 Nitrate as Nitrogen**

Sample Name: MW-16
Lab Code: K1205587-001
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1205587-001MS2		Duplicate Matrix Spike K1205587-001DMS2		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	8.7	105	100	97	105	100	96	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.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587

Date Analyzed: 06/09/12

Lab Control Sample Summary
Nitrate as Nitrogen

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 295355

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205587-LCS3	17.7	17.7	100	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water
Analysis Method: 300.0

Service Request: K1205587
Date Collected: 06/8/12
Date Received: 06/9/12
Units: mg/L
Basis: NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1205587-001	34.8	4.0	20	06/09/12 11:10	
MW-15D	K1205587-002	30.5	4.0	20	06/09/12 11:23	
MW-3	K1205587-003	30.9	4.0	20	06/09/12 11:37	
MW-20	K1205587-004	32.5	4.0	20	06/09/12 11:50	
MW-12b	K1205587-005	32.2	4.0	20	06/09/12 12:04	
MW-25	K1205587-006	24.2	4.0	20	06/09/12 12:17	
MW-26	K1205587-007	29.3	4.0	20	06/09/12 12:30	
Method Blank	K1205587-MB1	ND U	0.20	1	06/09/12 07:57	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
Date Analyzed: 06/09/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-16
Lab Code: K1205587-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205587-001DUP20 Result	Average	RPD	RPD Limit
Sulfate	300.0	4.0	34.8	34.6	34.7	<1	20

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
Date Analyzed: 06/9/12

**Duplicate Matrix Spike Summary
Sulfate**

Sample Name: MW-16
Lab Code: K1205587-001
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1205587-001MS2		Duplicate Matrix Spike K1205587-001DMS2		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	34.8	129	100	95	129	100	94	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 Rd. LF RI
Sample Matrix: Water

Service Request: K1205587

Date Analyzed: 06/09/12

Lab Control Sample Summary
Sulfate

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 295355

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205587-LCS3	4.54	5.00	91	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water
Analysis Method: SM 2320 B

Service Request: K1205587
Date Collected: 06/8/12
Date Received: 06/9/12
Units: mg/L
Basis: NA

Alkalinity as CaCO₃, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1205587-001	289	9.0	1	06/14/12 18:18	
MW-15D	K1205587-002	281	9.0	1	06/14/12 18:18	
MW-3	K1205587-003	243	9.0	1	06/14/12 18:18	
MW-20	K1205587-004	299	9.0	1	06/14/12 18:18	
MW-12b	K1205587-005	276	9.0	1	06/14/12 18:18	
MW-25	K1205587-006	224	9.0	1	06/14/12 18:18	
MW-26	K1205587-007	304	9.0	1	06/14/12 18:18	
Method Blank	K1205587-MB1	ND U	9.0	1	06/14/12 18:18	
Method Blank	K1205587-MB2	ND U	9.0	1	06/14/12 18:18	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
Date Analyzed: 06/14/12

**Replicate Sample Summary
 General Chemistry Parameters**

Sample Name: MW-16 **Units:** mg/L
Lab Code: K1205587-001 **Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1205587-001DUP20 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Alkalinity as CaCO3, Total	SM 2320 B	9.0	289	283	286	2	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 Rd. LF RI
Sample Matrix: Water

Service Request: K1205587

Date Analyzed: 06/14/12

Lab Control Sample Summary
Alkalinity as CaCO₃, Total

Analysis Method: SM 2320 B

Units: mg/L

Basis: NA

Analysis Lot: 296403

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1205587-LCS3	64.6	64.9	100	94-106
Lab Control Sample	K1205587-LCS4	64.9	64.9	100	94-106

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water
Analysis Method: SM 2540 C

Service Request: K1205587
Date Collected: 06/8/12
Date Received: 06/9/12
Units: mg/L
Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1205587-001	712	13	1	06/15/12 00:00	
MW-15D	K1205587-002	597	13	1	06/15/12 00:00	
MW-3	K1205587-003	633	10	1	06/15/12 00:00	
MW-20	K1205587-004	816	13	1	06/15/12 00:00	
MW-12b	K1205587-005	720	10	1	06/15/12 00:00	
MW-25	K1205587-006	521	10	1	06/15/12 00:00	
MW-26	K1205587-007	664	10	1	06/15/12 00:00	
Method Blank	K1205587-MB1	ND U	5.0	1	06/15/12 00:00	
Method Blank	K1205587-MB2	ND U	5.0	1	06/15/12 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 Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
Date Analyzed: 06/15/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-16
Lab Code: K1205587-001

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1205587-001DUP20 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	13	712	705	709	<1	10

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587

Date Analyzed: 06/15/12

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units: mg/L

Basis: NA

Analysis Lot: 296414

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205587-LCS3	1260	1240	101	90-108

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: K1205587
Date Collected: 06/8/12
Date Received: 06/9/12
Units: mg/L
Basis: NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1205587-001	ND U	0.050	1	06/11/12 08:30	
MW-15D	K1205587-002	0.066	0.050	1	06/11/12 08:30	
MW-3	K1205587-003	ND U	0.050	1	06/11/12 08:30	
MW-20	K1205587-004	ND U	0.050	1	06/11/12 08:30	
MW-12b	K1205587-005	ND U	0.050	1	06/11/12 08:30	
MW-25	K1205587-006	ND U	0.050	1	06/11/12 08:30	
MW-26	K1205587-007	ND U	0.050	1	06/11/12 08:30	
Method Blank	K1205587-MB1	ND U	0.050	1	06/11/12 08:30	
Method Blank	K1205587-MB2	ND U	0.050	1	06/11/12 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
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-16	K1205587-001DUP20	0.050	ND	ND	NC	NC	20	06/11/12
MW-26	K1205587-007DUP26	0.050	ND	ND	NC	NC	20	06/11/12

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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 Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
Date Analyzed: 06/11/12

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-16
Lab Code: K1205587-001
Analysis Method: SM 4500-NH3 E

Units: mg/L
Basis: NA

Matrix Spike
K1205587-001MS3

<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	9.83	10.0	98	80-115

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Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
Date Analyzed: 06/11/12

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-26
Lab Code: K1205587-007
Analysis Method: SM 4500-NH3 E

Units: mg/L
Basis: NA

Matrix Spike
K1205587-007MS4

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	ND	10.2	10.0	102	80-115

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587

Date Analyzed: 06/11/12

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: SM 4500-NH3 E

Units: mg/L

Basis: NA

Analysis Lot: 295524

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1205587-LCS3	14.3	13.9	103	80-115
Lab Control Sample	K1205587-LCS4	13.6	13.9	98	80-115

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1205587
Date Collected: 06/8/12
Date Received: 06/9/12

Units: mg/L
Basis: NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-16	K1205587-001	ND U	0.50	1	06/13/12 10:00	
MW-15D	K1205587-002	0.61	0.50	1	06/13/12 10:00	
MW-3	K1205587-003	0.51	0.50	1	06/13/12 10:00	
MW-20	K1205587-004	0.71	0.50	1	06/13/12 10:00	
MW-12b	K1205587-005	0.56	0.50	1	06/13/12 10:00	
MW-25	K1205587-006	0.68	0.50	1	06/13/12 10:00	
MW-26	K1205587-007	ND U	0.50	1	06/13/12 10:00	
Method Blank	K1205587-MB1	ND U	0.50	1	06/13/12 10:00	
Method Blank	K1205587-MB2	ND U	0.50	1	06/13/12 10:00	
Method Blank	K1205587-MB3	ND U	0.50	1	06/18/12 18:17	
Method Blank	K1205587-MB4	ND U	0.50	1	06/18/12 18:17	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water
Analysis Method: SM 5310 C

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
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-16	K1205587-001DUP20	0.50	ND	ND	NC	NC	10	06/13/12
MW-15D	K1205587-002DUP21	0.50	0.61	0.52	0.568	17 *	10	06/13/12
MW-3	K1205587-003DUP22	0.50	0.51	ND	NC	NC	10	06/13/12
MW-20	K1205587-004DUP23	0.50	0.71	0.68	0.696	4	10	06/13/12
MW-12b	K1205587-005DUP24	0.50	0.56	0.53	0.548	6	10	06/13/12
MW-25	K1205587-006DUP25	0.50	0.68	0.68	0.682	<1	10	06/13/12
MW-26	K1205587-007DUP26	0.50	ND	ND	NC	NC	10	06/13/12

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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 Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/12
Date Received: 06/09/12
Date Analyzed: 06/13/12

Matrix Spike Summary
Carbon, Total Organic

Sample Name: MW-16
Lab Code: K1205587-001
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Matrix Spike
K1205587-001MS3

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Carbon, Total Organic	ND	25.7	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 Rd. LF RI
Sample Matrix: Water

Service Request: K1205587

Date Analyzed: 06/18/12

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method: SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 296664

Lab Control Sample
K1205587-LCS1

Duplicate Lab Control Sample
K1205587-DLCS1

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Carbon, Total Organic	22.1	22.7	97	21.9	22.7	96	83-117	1	10

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587

Date Analyzed: 06/18/12

**Duplicate Lab Control Sample Summary
 General Chemistry Parameters**

Analysis Method: SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 296664

**Lab Control Sample
 K1205587-LCS2**

**Duplicate Lab Control Sample
 K1205587-DLCS2**

<u>Analyte Name</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>	<u>RPD</u>	<u>RPD Limit</u>
Carbon, Total Organic	22.2	22.7	98	22.0	22.7	97	83-117	1	10

COLUMBIA ANALYTICAL SERVICES, INC.
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INORGANIC ANALYSIS DATA PACKAGE

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF RI
Project No. : NA

Service Request : K1205587

Sample Name :

Lab Code :

MW-16	K1205587-001
MW-16	K1205587-001D
MW-16	K1205587-001S
MW-15D	K1205587-002
MW-3	K1205587-003
MW-20	K1205587-004
MW-12b	K1205587-005
MW-25	K1205587-006
MW-26	K1205587-007
Laboratory Control Sample	K1205587-LCS
Method Blank	K1205587-MB

Comments:

Approved By: 3C

Date: 6/28/12

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF RI
Project No. : NA
Matrix : Water

Service Request : K1205587
Date Collected : 06/08/12
Date Received : 06/09/12
Date Extracted : 06/12/12

Dissolved Metals

Sample Name : MW-16
Lab Code : K1205587-001

Units : ug/L (ppb)
Basis : NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Calcium	6010C	50	06/21/12	120000	
Iron	6010C	20	06/21/12	ND	
Magnesium	6010C	20	06/21/12	51300	
Manganese	6010C	5.0	06/21/12	ND	
Potassium	6010C	400	06/21/12	7330	
Sodium	6010C	200	06/21/12	22500	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF RI
Project No. : NA
Matrix : Water

Service Request : K1205587
Date Collected : 06/08/12
Date Received : 06/09/12
Date Extracted : 06/12/12

Dissolved Metals

Sample Name : MW-15D
Lab Code : K1205587-002

Units : ug/L (ppb)
Basis : NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Calcium	6010C	50	06/21/12	115000	
Iron	6010C	20	06/21/12	ND	
Magnesium	6010C	20	06/21/12	52000	
Manganese	6010C	5.0	06/21/12	15.8	
Potassium	6010C	400	06/21/12	7560	
Sodium	6010C	200	06/21/12	19600	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF RI
Project No. : NA
Matrix : Water

Service Request : K1205587
Date Collected : 06/08/12
Date Received : 06/09/12
Date Extracted : 06/12/12

Dissolved Metals

Sample Name : MW-3
Lab Code : K1205587-003

Units : ug/L (ppb)
Basis : NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Calcium	6010C	50	06/21/12	105000	
Iron	6010C	20	06/21/12	ND	
Magnesium	6010C	20	06/21/12	49500	
Manganese	6010C	5.0	06/21/12	ND	
Potassium	6010C	400	06/21/12	7100	
Sodium	6010C	200	06/21/12	17500	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF R1
Project No. : NA
Matrix : Water

Service Request : K1205587
Date Collected : 06/08/12
Date Received : 06/09/12
Date Extracted : 06/12/12

Dissolved Metals

Sample Name : MW-20
Lab Code : K1205587-004

Units : ug/L (ppb)
Basis : NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Calcium	6010C	50	06/21/12	124000	
Iron	6010C	20	06/21/12	ND	
Magnesium	6010C	20	06/21/12	53100	
Manganese	6010C	5.0	06/21/12	255	
Potassium	6010C	400	06/21/12	8250	
Sodium	6010C	200	06/21/12	28000	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF RI
Project No. : NA
Matrix : Water

Service Request : K1205587
Date Collected : 06/08/12
Date Received : 06/09/12
Date Extracted : 06/12/12

Dissolved Metals

Sample Name : MW-12b
Lab Code : K1205587-005

Units : ug/L (ppb)
Basis : NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Calcium	6010C	50	06/21/12	108000	
Iron	6010C	20	06/21/12	93	
Magnesium	6010C	20	06/21/12	48100	
Manganese	6010C	5.0	06/21/12	ND	
Potassium	6010C	400	06/21/12	7460	
Sodium	6010C	200	06/21/12	30000	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF RI
Project No. : NA
Matrix : Water

Service Request : K1205587
Date Collected : 06/08/12
Date Received : 06/09/12
Date Extracted : 06/12/12

Dissolved Metals

Sample Name : MW-25
Lab Code : K1205587-006

Units : ug/L (ppb)
Basis : NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Calcium	6010C	50	06/21/12	75100	
Iron	6010C	20	06/21/12	124	
Magnesium	6010C	20	06/21/12	27600	
Manganese	6010C	5.0	06/21/12	1170	
Potassium	6010C	400	06/21/12	7800	
Sodium	6010C	200	06/21/12	33900	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF R1
Project No. : NA
Matrix : Water

Service Request : K1205587
Date Collected : 06/08/12
Date Received : 06/09/12
Date Extracted : 06/12/12

Dissolved Metals

Sample Name : MW-26
Lab Code : K1205587-007

Units : ug/L (ppb)
Basis : NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Calcium	6010C	50	06/21/12	110000	
Iron	6010C	20	06/21/12	ND	
Magnesium	6010C	20	06/21/12	43000	
Manganese	6010C	5.0	06/21/12	10.3	
Potassium	6010C	400	06/21/12	8310	
Sodium	6010C	200	06/21/12	36100	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF RI
Project No. : NA
Matrix : Water

Service Request : K1205587
Date Collected : NA
Date Received : NA
Date Extracted : 06/12/12

Dissolved Metals

Sample Name : Method Blank
Lab Code : K1205587-MB

Units : ug/L (ppb)
Basis : NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Calcium	6010C	50	06/21/12	ND	
Iron	6010C	20	06/21/12	ND	
Magnesium	6010C	20	06/21/12	ND	
Manganese	6010C	5.0	06/21/12	ND	
Potassium	6010C	400	06/21/12	ND	
Sodium	6010C	200	06/21/12	ND	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF RI
Project No. : NA
Matrix : Water

Service Request : K1205587
Date Collected : 06/08/12
Date Received : 06/09/12
Date Extracted : 06/12/12
Date Analyzed : 06/21/12

Duplicate Summary
Dissolved Metals

Sample Name : MW-16
Lab Code : K1205587-001D

Units : ug/L (ppb)
Basis : NA

Analyte	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Calcium	6010C	50	120000	118000	119000	2	
Iron	6010C	20	ND	ND	ND	-	
Magnesium	6010C	20	51300	50800	51000	<1	
Manganese	6010C	5.0	ND	ND	ND	-	
Potassium	6010C	400	7330	7130	7230	3	
Sodium	6010C	200	22500	22300	22400	<1	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF RI
Project No. : NA
Matrix : Water

Service Request : K1205587
Date Collected : 06/08/12
Date Received : 06/09/12
Date Extracted : 06/12/12
Date Analyzed : 06/21/12

Matrix Spike Summary
Dissolved Metals

Sample Name : MW-16
Lab Code : K1205587-001S

Units : ug/L (ppb)
Basis : NA

Analyte	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS Percent Recovery Acceptance Limits	Result Notes
Calcium	50	10000	120000	130000	NA	75-125	
Iron	20	1000	ND	1030	103	75-125	
Magnesium	20	10000	51300	61300	NA	75-125	
Manganese	5.0	500	ND	502	100	75-125	
Potassium	400	10000	7330	17200	99	75-125	
Sodium	200	10000	22500	32800	103	75-125	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client : Schwyn Environmental Services
Project Name : City of Walla Walla Sudbury Rd. LF RI
Project No. : NA
Matrix : Water

Service Request : K1205587
Date Collected : NA
Date Received : NA
Date Extracted : 06/12/12
Date Analyzed : 06/21/12

Laboratory Control Sample Summary
Dissolved Metals

Sample Name : Laboratory Control Sample
Lab Code : K1205587-LCS

Units : ug/L (ppb)
Basis : NA

Analyte	Analysis Method	True Value	Result	Percent	CAS Percent Recovery Acceptance Limits	Result Notes
Calcium	6010C	12500	12600	101	80-120	
Iron	6010C	2500	2480	99	80-120	
Magnesium	6010C	12500	12800	102	80-120	
Manganese	6010C	1250	1270	101	80-120	
Potassium	6010C	12500	12500	100	80-120	
Sodium	6010C	12500	13100	104	80-120	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1205587-001
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	0.62		0.50	1	06/22/12	06/22/12	KWG1206858	
Chloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Chloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichlorofluoromethane	0.84		0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Acetone	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Iodomethane	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
Carbon Disulfide	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Methylene Chloride	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Acrylonitrile	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Acetate	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
2-Butanone (MEK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Bromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroform	0.62		0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Carbon Tetrachloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Benzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichloroethene (TCE)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Dibromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromodichloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Toluene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,2-Trichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Tetrachloroethene (PCE)	0.82		0.50	1	06/22/12	06/22/12	KWG1206858	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1205587-001
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	06/22/12	06/22/12	KWG1206858	
Dibromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Chlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Ethylbenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
m,p-Xylenes	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
o-Xylene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Styrene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromoform	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,2,3-Trichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,4-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	115	73-122	06/22/12	Acceptable
Toluene-d8	117	65-144	06/22/12	Acceptable
4-Bromofluorobenzene	115	68-117	06/22/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1205587-002
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	06/22/12	06/22/12	KWG1206858	
Chloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Chloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichlorofluoromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Acetone	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Iodomethane	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
Carbon Disulfide	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Methylene Chloride	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Acrylonitrile	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Acetate	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
2-Butanone (MEK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Bromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroform	0.68		0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Carbon Tetrachloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Benzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichloroethene (TCE)	0.51		0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Dibromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromodichloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Toluene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,2-Trichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Tetrachloroethene (PCE)	1.1		0.50	1	06/22/12	06/22/12	KWG1206858	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1205587-002
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	06/22/12	06/22/12	KWG1206858	
Dibromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Chlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Ethylbenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
m,p-Xylenes	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
o-Xylene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Styrene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromoform	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,2,3-Trichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,4-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	117	73-122	06/22/12	Acceptable
Toluene-d8	120	65-144	06/22/12	Acceptable
4-Bromofluorobenzene	116	68-117	06/22/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
 Project: City of Walla Walla Sudbury Rd. LF RI
 Sample Matrix: Water

Service Request: K1205587
 Date Collected: 06/08/2012
 Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-3
 Lab Code: K1205587-003
 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	06/22/12	06/22/12	KWG1206858	
Chloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Chloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichlorofluoromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Acetone	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Iodomethane	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
Carbon Disulfide	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Methylene Chloride	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Acrylonitrile	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Acetate	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
2-Butanone (MEK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Bromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroform	0.55		0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Carbon Tetrachloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Benzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichloroethene (TCE)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Dibromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromodichloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Toluene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,2-Trichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Tetrachloroethene (PCE)	1.1		0.50	1	06/22/12	06/22/12	KWG1206858	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1205587-003
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	06/22/12	06/22/12	KWG1206858	
Dibromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Chlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Ethylbenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
m,p-Xylenes	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
o-Xylene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Styrene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromoform	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,2,3-Trichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,4-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	73-122	06/22/12	Acceptable
Toluene-d8	118	65-144	06/22/12	Acceptable
4-Bromofluorobenzene	115	68-117	06/22/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-20
Lab Code: K1205587-004
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	0.62		0.50	1	06/22/12	06/22/12	KWG1206858	
Chloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Chloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichlorofluoromethane	0.85		0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Acetone	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Iodomethane	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
Carbon Disulfide	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Methylene Chloride	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Acrylonitrile	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Acetate	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
2-Butanone (MEK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Bromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroform	0.59		0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Carbon Tetrachloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Benzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichloroethene (TCE)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Dibromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromodichloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Toluene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,2-Trichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Tetrachloroethene (PCE)	1.2		0.50	1	06/22/12	06/22/12	KWG1206858	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-20
Lab Code: K1205587-004
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	06/22/12	06/22/12	KWG1206858	
Dibromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Chlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Ethylbenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
m,p-Xylenes	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
o-Xylene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Styrene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromoform	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,2,3-Trichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,4-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	118	73-122	06/22/12	Acceptable
Toluene-d8	118	65-144	06/22/12	Acceptable
4-Bromofluorobenzene	116	68-117	06/22/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1205587-005
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	06/22/12	06/22/12	KWG1206858	
Chloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Chloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichlorofluoromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Acetone	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Iodomethane	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
Carbon Disulfide	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Methylene Chloride	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Acrylonitrile	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Acetate	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
2-Butanone (MEK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Bromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroform	0.93		0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Carbon Tetrachloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Benzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichloroethene (TCE)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Dibromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromodichloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Toluene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,2-Trichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Tetrachloroethene (PCE)	0.84		0.50	1	06/22/12	06/22/12	KWG1206858	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1205587-005
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	06/22/12	06/22/12	KWG1206858	
Dibromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Chlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Ethylbenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
m,p-Xylenes	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
o-Xylene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Styrene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromoform	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,2,3-Trichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,4-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	73-122	06/22/12	Acceptable
Toluene-d8	118	65-144	06/22/12	Acceptable
4-Bromofluorobenzene	115	68-117	06/22/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-25
Lab Code: K1205587-006
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	06/22/12	06/22/12	KWG1206858	
Chloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Chloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichlorofluoromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Acetone	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Iodomethane	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
Carbon Disulfide	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Methylene Chloride	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Acrylonitrile	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Acetate	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
2-Butanone (MEK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Bromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroform	1.3		0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Carbon Tetrachloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Benzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichloroethene (TCE)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Dibromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromodichloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Toluene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,2-Trichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-25
Lab Code: K1205587-006
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	06/22/12	06/22/12	KWG1206858	
Dibromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Chlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Ethylbenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
m,p-Xylenes	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
o-Xylene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Styrene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromoform	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,2,3-Trichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,4-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	120	73-122	06/22/12	Acceptable
Toluene-d8	117	65-144	06/22/12	Acceptable
4-Bromofluorobenzene	118	68-117	06/22/12	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-26
Lab Code: K1205587-007
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	0.63		0.50	1	06/22/12	06/22/12	KWG1206858	
Chloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Chloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichlorofluoromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Acetone	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Iodomethane	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
Carbon Disulfide	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Methylene Chloride	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Acrylonitrile	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Acetate	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
2-Butanone (MEK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Bromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroform	1.1		0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Carbon Tetrachloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Benzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichloroethene (TCE)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Dibromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromodichloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Toluene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,2-Trichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Tetrachloroethene (PCE)	1.2		0.50	1	06/22/12	06/22/12	KWG1206858	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-26
Lab Code: K1205587-007
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	06/22/12	06/22/12	KWG1206858	
Dibromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Chlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Ethylbenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
m,p-Xylenes	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
o-Xylene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Styrene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromoform	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,2,3-Trichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,4-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	121	73-122	06/22/12	Acceptable
Toluene-d8	118	65-144	06/22/12	Acceptable
4-Bromofluorobenzene	116	68-117	06/22/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1205587-008
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	06/22/12	06/22/12	KWG1206858	
Chloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Chloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichlorofluoromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Acetone	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Iodomethane	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
Carbon Disulfide	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Methylene Chloride	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Acrylonitrile	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Acetate	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
2-Butanone (MEK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Bromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroform	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Carbon Tetrachloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Benzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichloroethene (TCE)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Dibromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromodichloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Toluene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,2-Trichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1205587-008
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	06/22/12	06/22/12	KWG1206858	
Dibromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Chlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Ethylbenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
m,p-Xylenes	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
o-Xylene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Styrene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromoform	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,2,3-Trichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,4-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	117	73-122	06/22/12	Acceptable
Toluene-d8	118	65-144	06/22/12	Acceptable
4-Bromofluorobenzene	115	68-117	06/22/12	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206858-4
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	06/22/12	06/22/12	KWG1206858	
Chloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Chloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichlorofluoromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Acetone	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Iodomethane	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
Carbon Disulfide	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Methylene Chloride	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Acrylonitrile	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1-Dichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Vinyl Acetate	ND	U	5.0	1	06/22/12	06/22/12	KWG1206858	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
2-Butanone (MEK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Bromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Chloroform	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Carbon Tetrachloride	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Benzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Trichloroethene (TCE)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Dibromomethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromodichloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/22/12	06/22/12	KWG1206858	
Toluene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,2-Trichloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206858-4
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	06/22/12	06/22/12	KWG1206858	
Dibromochloromethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	
Chlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Ethylbenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
m,p-Xylenes	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
o-Xylene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Styrene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
Bromoform	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/22/12	06/22/12	KWG1206858	
1,2,3-Trichloropropane	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,4-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dichlorobenzene	ND	U	0.50	1	06/22/12	06/22/12	KWG1206858	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/22/12	06/22/12	KWG1206858	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	117	73-122	06/22/12	Acceptable
Toluene-d8	117	65-144	06/22/12	Acceptable
4-Bromofluorobenzene	115	68-117	06/22/12	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 Rd. LF RI
Sample Matrix: Water

Service Request: K1205587

**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-16	K1205587-001	115	117	115
MW-15D	K1205587-002	117	120	116
MW-3	K1205587-003	120	118	115
MW-20	K1205587-004	118	118	116
MW-12b	K1205587-005	120	118	115
MW-25	K1205587-006	120	117	118 *
MW-26	K1205587-007	121	118	116
Trip Blank	K1205587-008	117	118	115
Method Blank	KWG1206858-4	117	117	115
MW-16MS	KWG1206858-1	121	120	112
MW-16DMS	KWG1206858-2	120	119	112
Lab Control Sample	KWG1206858-3	118	118	116

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 Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Extracted: 06/22/2012
Date Analyzed: 06/22/2012

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

Sample Name: MW-16
Lab Code: K1205587-001
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206858

Analyte Name	Sample Result	MW-16MS KWG1206858-1 Matrix Spike			MW-16DMS KWG1206858-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	9.14	10.0	91	8.22	10.0	82	49-136	11	30
1,1-Dichloroethene	ND	11.5	10.0	115	10.4	10.0	104	59-171	11	30
Chloroform	0.62	11.2	10.0	106	10.7	10.0	101	64-133	5	30
Carbon Tetrachloride	ND	10.5	10.0	105	9.64	10.0	96	53-161	8	30
Benzene	ND	9.69	10.0	97	8.97	10.0	90	63-144	8	30
Trichloroethene (TCE)	ND	10.3	10.0	103	9.70	10.0	97	53-139	6	30
Bromodichloromethane	ND	9.44	10.0	94	9.22	10.0	92	61-134	2	30
Toluene	ND	9.79	10.0	98	9.12	10.0	91	71-136	7	30
1,1,2-Trichloroethane	ND	9.57	10.0	96	9.27	10.0	93	74-124	3	30
2-Hexanone	ND	43.8	50.0	88	48.5	50.0	97	53-132	10	30
Chlorobenzene	ND	9.88	10.0	99	9.28	10.0	93	69-126	6	30
Ethylbenzene	ND	9.71	10.0	97	9.03	10.0	90	66-136	7	30
1,2,3-Trichloropropane	ND	9.16	10.0	92	9.54	10.0	95	71-127	4	30
1,2-Dichlorobenzene	ND	9.03	10.0	90	8.62	10.0	86	72-119	5	30

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Extracted: 06/22/2012
Date Analyzed: 06/22/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206858

Lab Control Sample
 KWG1206858-3
 Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	10.8	10.0	108	32-124
Chloromethane	8.94	10.0	89	34-130
Vinyl Chloride	8.14	10.0	81	55-123
Bromomethane	8.55	10.0	86	35-113
Chloroethane	9.27	10.0	93	58-134
Trichlorofluoromethane	9.72	10.0	97	52-141
1,1-Dichloroethene	10.2	10.0	102	66-129
Acetone	51.9	50.0	104	68-135
Iodomethane	40.4	30.0	135	51-164
Carbon Disulfide	17.5	20.0	88	46-144
Methylene Chloride	9.43	10.0	94	71-122
Acrylonitrile	36.2	40.0	91	65-129
trans-1,2-Dichloroethene	9.58	10.0	96	67-125
1,1-Dichloroethane	9.10	10.0	91	68-132
Vinyl Acetate	46.4	50.0	93	44-156
cis-1,2-Dichloroethene	9.43	10.0	94	71-118
2-Butanone (MEK)	49.1	50.0	98	71-149
Bromochloromethane	10.6	10.0	106	75-131
Chloroform	10.1	10.0	101	70-129
1,1,1-Trichloroethane (TCA)	9.58	10.0	96	59-136
Carbon Tetrachloride	9.46	10.0	95	55-140
Benzene	9.02	10.0	90	69-124
1,2-Dichloroethane (EDC)	11.0	10.0	110	56-142
Trichloroethene (TCE)	9.38	10.0	94	67-128
1,2-Dichloropropane	8.51	10.0	85	67-126
Dibromomethane	10.2	10.0	102	69-128
Bromodichloromethane	9.18	10.0	92	63-129
cis-1,3-Dichloropropene	8.42	10.0	84	62-132
4-Methyl-2-pentanone (MIBK)	50.5	50.0	101	64-134
Toluene	9.26	10.0	93	69-124
trans-1,3-Dichloropropene	7.50	10.0	75	59-125
1,1,2-Trichloroethane	9.97	10.0	100	74-118
Tetrachloroethene (PCE)	9.85	10.0	99	62-126
2-Hexanone	50.5	50.0	101	59-131
Dibromochloromethane	9.06	10.0	91	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 Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Extracted: 06/22/2012
Date Analyzed: 06/22/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206858

Lab Control Sample
 KWG1206858-3
 Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
1,2-Dibromoethane (EDB)	10.6	10.0	106	74-118
Chlorobenzene	9.77	10.0	98	72-116
Ethylbenzene	9.04	10.0	90	67-121
1,1,1,2-Tetrachloroethane	9.42	10.0	94	66-124
m,p-Xylenes	18.6	20.0	93	69-121
o-Xylene	9.40	10.0	94	71-119
Styrene	10.2	10.0	102	74-121
Bromoform	8.17	10.0	82	52-144
cis-1,4-Dichloro-2-butene	22.6	30.0	75	26-171
1,1,2,2-Tetrachloroethane	8.82	10.0	88	70-127
trans-1,4-Dichloro-2-butene	22.1	30.0	74	46-170
1,2,3-Trichloropropane	9.51	10.0	95	69-123
1,4-Dichlorobenzene	9.36	10.0	94	73-115
1,2-Dichlorobenzene	9.14	10.0	91	72-115
1,2-Dibromo-3-chloropropane	7.46	10.0	75	55-132

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1205587-001
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	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	114	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-15D
Lab Code: K1205587-002
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	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	115	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-3
Lab Code: K1205587-003
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	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	114	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-20
Lab Code: K1205587-004
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	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	114	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	84	46-118	06/19/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-12b
Lab Code: K1205587-005
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	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	112	77-123	06/19/12	Acceptable
Toluene-d8	109	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-25
Lab Code: K1205587-006
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	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	114	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/19/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: MW-26
Lab Code: K1205587-007
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	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	115	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	84	46-118	06/19/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: 06/08/2012
Date Received: 06/09/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1205587-008
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND U	20	1	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	113	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	83	46-118	06/19/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206657-4
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	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	111	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/19/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587

**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-16	K1205587-001	114	113 *	83
MW-15D	K1205587-002	115	113 *	83
MW-3	K1205587-003	114	113 *	83
MW-20	K1205587-004	114	112	84
MW-12b	K1205587-005	112	109	83
MW-25	K1205587-006	114	113 *	84
MW-26	K1205587-007	115	112 #	84
Trip Blank	K1205587-008	113	112	83
Method Blank	KWG1206657-4	111	113 *	84
MW-16MS	KWG1206657-1	112	114 *	92
MW-16DMS	KWG1206657-2	112	114 *	93
Lab Control Sample	KWG1206657-3	112	114 *	93

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.

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QA/QC Report

Client: Schwyn Environmental Services
Project: City of Walla Walla Sudbury Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Extracted: 06/19/2012
Date Analyzed: 06/19/2012

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-16
Lab Code: K1205587-001
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1206657

Analyte Name	Sample Result	MW-16MS KWG1206657-1 Matrix Spike			MW-16DMS KWG1206657-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	1780	2000	89	1650	2000	83	70-130	8	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 Rd. LF RI
Sample Matrix: Water

Service Request: K1205587
Date Extracted: 06/19/2012
Date Analyzed: 06/19/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1206657

Lab Control Sample
 KWG1206657-3
 Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Vinyl Chloride	2120	2000	106	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.

ALS ENVIRONMENTAL

Client: K1204434
Project: Walla Walla Sudbury LF RI
Sample Matrix: Soil

Service Request No.: K1204434
Date Received: 05/09/12

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

One soil sample was received for analysis at ALS Environmental on 05/09/12. The sample was received in good condition and consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Volatile Organic Compounds by EPA Method 8260

Calibration Verification Exceptions:

The following analytes were flagged as outside the control criterion for Continuing Calibration Verification (CCV) J:\MS24\0516F013.D: Bromomethane, Carbon Disulfide, Dibromofluoromethane and Toluene-d8. The following analytes were flagged as outside the control criterion for Continuing Calibration Verification (CCV) J:\MS04\0517F003.D: Acetone and Iodomethane. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

Elevated Detection Limits:

Iodomethane was reported from the medium level analysis for sample GW11@56'. The low level instrument was not calibrated for the compound in question.

Approved by _____

EMW

Date

7/12/12

FA



July 3, 2012

Analytical Report for Service Request No: K1205452

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

RE: Sudbury Road Landfill RI

Dear Craig:

Enclosed are the results of the samples submitted to our laboratory on June 07, 2012. For your reference, these analyses have been assigned our service request number K1205452.

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.


Ed Wallace
Project Manager

EW/ln

Page 1 of 147



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Environmental 

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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. - 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.pjllabs.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	704427-08-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.

Case Narrative

ALS ENVIRONMENTAL

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

Service Request No.: K1205452
Date Received: 6/7/12

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

Eight water samples and one trip blank were received for analysis at ALS Environmental on 6/7/12. 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

Chloride by EPA Method 300.0:

The control criteria for matrix spike recoveries of Chloride for sample MW-11 were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Total Organic Carbon by Standard Method 5310 C:

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

Total and Dissolved Metals

No anomalies with the analysis of these samples were observed.

Organochlorine Pesticides by EPA Method 8081

No anomalies with the analysis of these samples were observed.

PCB Aroclors by EPA Method 8082

No anomalies with the analysis of these samples were observed.

Organophosphorus Pesticides by EPA Method 8141

Sample Notes and Discussion:

Insufficient sample volume was received to perform a full list Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

Approved by EMW Date 7/5/12

Chlorophenoxy Herbicides by EPA Method 8151

No anomalies with the analysis of these samples were observed.

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) J:\MS18\0613F003.D: trans-1,3-Dichloropropene, Bromoform, cis-1,4-Dichloro-2-butene and 1,2-Dibromo-3-chloropropane. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

The following analytes were flagged as outside the lower control criterion for Continuing Calibration Verification (CCV) J:\MS18\0612F004.D: 2-Butanone, 2-Hexanone, Bromoform, cis-1,4-Dichloro-2-butene and 1,2-Dibromo-3-chloropropane. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

Volatile Organic Compounds by EPA Method 8260 SIM

Surrogate Exceptions:

The upper control criterion was exceeded for Toluene-d8 in all samples. Since the target analyte is not associated with the surrogate, the data quality was not significantly affected. No further corrective action was appropriate. No further corrective action was appropriate.

Semivolatile Organic Compounds by EPA Method 8270

Lab Control Sample Exceptions:

The recoveries of several analytes in the Lab Control Summary/Duplicate Lab Control Summary were outside the control limits listed in the results summary. The limits are default values temporarily in use until sufficient data points are generated to calculate statistical control limits. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

Relative Percent Difference Exceptions

The Relative Percent Difference (RPD) criterion for the replicate analysis of p-Phenylenediamine in the Lab Control Summary/Duplicate Lab Control Summary was not applicable because the analyte concentration was not significantly greater than the Method Reporting Limit (MRL). Analytical values derived from measurements close to the detection limit are not subject to the same accuracy and precision criteria as results derived from measurements higher on the calibration range for the method.

Approved by _____

EMW

Date

7/5/12

Chain of Custody

Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

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

SR# 619054152
PAGE 1 OF 2

Project Name: City of Walla Walla Sandbury 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: _____

Sample I.D.	Date	Time	LAB ID	Matrix	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)]	Appendix III Parameters (see below)	MS/MSD	REMARKS
MW-215	6/6/02	10:30		W	10	X	X	X			
MW-216	6/6/02	10:00		W	10	X	X	X			
MW-225	6/6/02	10:30		W	10	X	X	X			
MW-221D	6/6/02	10:00		W	10	X	X	X			

IRNAROUND REQUIREMENTS

24 hr _____ 48 hr _____ 5 day _____

Standard (21 days)
Provide FAX Preliminary Results

Requested Report Date: _____

Invoice Information

P.O. # _____
Bill to: Schwyn Environmental Services

RELINQUISHED BY:

Signature: [Signature]
Printed Name: Kraig Schwyn
Firm: Schwyn Environmental Services
Date/Time: _____

REPORT REQUIREMENTS

I. Routine Report: Results, Method Blank, Surrogate, as required

II. Report Dup., MS, MSD as required

III. Data Validation Report (includes raw data)

IV. CLP Deliverable Report

V. EDD

RECEIVED BY:

Signature: [Signature]
Printed Name: _____
Firm: _____
Date/Time: _____

Appendix III Parameters

Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C
Total Metals: Ni, Hg by USEPA Method 6010C, and 7470A
Organochlorine pesticides by USEPA Method 8081A
PCBs (Aroclors) by USEPA Method 8082

Organophosphorus compounds by USEPA Method 8141A
Chlorinated herbicides by USEPA Method 8151A

SVOCS USEPA Method 8270D
Total cyanide by SM 4500 S2 D and Total sulfide by EPA 335.4

RELINQUISHED BY:

Signature: _____
Printed Name: _____
Firm: _____
Date/Time: _____

RECEIVED BY:

Signature: [Signature]
Printed Name: Paras Smith
Firm: _____
Date/Time: 6/8/02 0930

Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

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

SR# 11005459
PAGE 2 OF 2

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: _____

Sample I.D.	Date	Time	LAB ID	Matrix
MW-3				Water
MW-5	6/5/12	4:06		Water
MW-9	6/5/12	3:50		Water
MW-10	6/5/12	4:45		Water
MW-11	6/6/12	8:30		Water
MW-12b				Water
MW-14b				Water
MW-15				Water
MW-15D				Water
MW-16				Water
MW-17				Water
MW-18				Water

URNAROUND REQUIREMENTS	REPORT REQUIREMENTS	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)]	Appendix III Parameters (see below)	MIS/MSD	REMARKS
24 hr _____ 48 hr _____ 5 day _____ X Standard (21 days) Provide FAX Preliminary Results Requested Report Date: _____	I. Routine Report: Results, Method Blank, Surrogate, as required X II. Report Dup., MS, MSD as required III. Data Validation Report (includes raw data) IV. CLP Deliverable Report X V. EDD							
Invoice Information P.O. # _____ Bill to: Schwyn Environmental Services	RECEIVED BY: Signature: <u>Field EX</u> Printed Name: _____ Firm: _____	Appendix III Parameters Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C Total Metals: Ni, Hg by USEPA Method 6010C, and 7470A Organochlorine pesticides by USEPA Method 8081A PCBs (Aroclors) by USEPA Method 8082 Organophosphorus compounds by USEPA Method 8141A Chlorinated herbicides by USEPA Method 8151A SVOCs USEPA Method 8270D Total cyanide by SM 4500 S2 D and Total sulfide by EPA 335.4						
RELINQUISHED BY: Signature: <u>Craig Schwyn</u> Printed Name: _____ Firm: Schwyn Environmental Services	RECEIVED BY: Signature: <u>Barla Smith</u> Printed Name: _____ Firm: _____							



PC ed

Cooler Receipt and Preservation Form

Client / Project: Schuy Service Request K12/52
 Received: 6/8/12 Opened: 6/8/12 By: [Signature] Unloaded: 6/8/12 By: [Signature]

1. Samples were received via? Mail Fed-Ex UPS DHL PDX Courier Hand Delivered
 2. Samples were received in: (circle) Cooler Box Envelope Other NA
 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
 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
<u>1.9</u>	<u>2.1</u>	<u>304</u>	<u>NA</u>			<input checked="" type="checkbox"/>

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: _____



PC ed

Cooler Receipt and Preservation Form

Client / Project: SW Schwyn Service Request K12 5452
 Received: 6/7/12 Opened: 6/7/12 By: [Signature] Unloaded: 6/7/12 By: [Signature]

1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
 2. Samples were received in: (circle) Cooler Box Envelope Other NA
 3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
 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
<u>2</u>	<u>0</u>	<u>300</u>					<input checked="" type="checkbox"/>
<u>0</u>	<u>1.4</u>	<u>259</u>					<input checked="" type="checkbox"/>

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: MW-11 6/6/12 0800 ms/msd for Vc and Menchen
MW-21D 6/6/12 1000 Ambers and Metals on hold
MW-21S 6/6/12 1030 MW-5 6/5/12 1600
MW-22D 6/6/12 1100
MW-22S 6/6/12 1130 2-TB
MW-9 6/5/12 1500 *Did not receive COC (Missing cooler)

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

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

Service Request: K1205452
Date Collected: 06/6/12
Date Received: 06/7/12
Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1205452-001	85.0	4.0	20	06/07/12 16:38	
MW-21D	K1205452-002	150	4.0	20	06/07/12 17:32	
MW-21S	K1205452-003	141	4.0	20	06/07/12 17:45	
MW-22D	K1205452-004	157	4.0	20	06/07/12 22:15	
MW-22S	K1205452-005	156	4.0	20	06/07/12 22:28	
Method Blank	K1205452-MB1	ND U	0.20	1	06/07/12 07:17	
Method Blank	K1205452-MB2	ND U	0.20	1	06/07/12 18:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/07/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-11
Lab Code: K1205452-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205452- 001DUP4 Result	Average	RPD	RPD Limit
Chloride	300.0	4.0	85.0	85.3	85.2	<1	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/7/12

**Duplicate Matrix Spike Summary
Chloride**

Sample Name: MW-11 **Units:** mg/L
Lab Code: K1205452-001 **Basis:** NA
Analysis Method: 300.0

Analyte Name	Sample Result	Result	Matrix Spike K1205452-001MS2		Duplicate Matrix Spike K1205452-001DMS2		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	85.0	130	40.0	112 *	130	40.0	112 *	90-110	<1	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452

Date Analyzed: 06/07/12

Lab Control Sample Summary
Chloride

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 294965

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1205452-LCS3	4.75	5.00	95	90-110
Lab Control Sample	K1205452-LCS4	4.66	5.00	93	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

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

Service Request: K1205452
Date Collected: 06/6/12
Date Received: 06/7/12
Units: mg/L
Basis: NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1205452-001	8.0	1.0	20	06/07/12 16:38	
MW-21D	K1205452-002	10.4	1.0	20	06/07/12 17:32	
MW-21S	K1205452-003	9.1	1.0	20	06/07/12 17:45	
MW-22D	K1205452-004	10.0	1.0	20	06/07/12 22:15	
MW-22S	K1205452-005	9.2	1.0	20	06/07/12 22:28	
Method Blank	K1205452-MB1	ND U	0.050	1	06/07/12 07:17	
Method Blank	K1205452-MB2	ND U	0.050	1	06/07/12 18:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Collected: NA
Date Received: NA
Date Analyzed: 06/07/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: Batch QC
Lab Code: K1205449-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205449- 001DUP3 Result	Average	RPD	RPD Limit
Nitrate as Nitrogen	300.0	2.5	ND	ND	NC	NC	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Collected: N/A
Date Received: N/A
Date Analyzed: 06/7/12

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: Batch QC
Lab Code: K1205449-001
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1205449-001MS1		Duplicate Matrix Spike K1205449-001DMS1		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Nitrate as Nitrogen	ND	95.1	100	95	96.3	100	96	90-110	1	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Analyzed: 06/07/12

Lab Control Sample Summary
Nitrate as Nitrogen

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 294965

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205452-LCS3	17.9	17.7	101	90-110
Lab Control Sample	K1205452-LCS4	17.8	17.7	101	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

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

Service Request: K1205452
Date Collected: 06/6/12
Date Received: 06/7/12
Units: mg/L
Basis: NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1205452-001	27.6	4.0	20	06/07/12 16:38	
MW-21D	K1205452-002	31.2	4.0	20	06/07/12 17:32	
MW-21S	K1205452-003	32.5	4.0	20	06/07/12 17:45	
MW-22D	K1205452-004	32.4	4.0	20	06/07/12 22:15	
MW-22S	K1205452-005	33.8	4.0	20	06/07/12 22:28	
Method Blank	K1205452-MB1	ND U	0.20	1	06/07/12 07:17	
Method Blank	K1205452-MB2	ND U	0.20	1	06/07/12 18:26	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/07/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-11
Lab Code: K1205452-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205452-001DUP4 Result	Average	RPD	RPD Limit
Sulfate	300.0	4.0	27.6	27.6	27.6	<1	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/7/12

Duplicate Matrix Spike Summary
Sulfate

Sample Name: MW-11
Lab Code: K1205452-001
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1205452-001MS2		Duplicate Matrix Spike K1205452-001DMS2		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	27.6	67.6	40.0	100	67.8	40.0	100	90-110	<1	20.

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Analyzed: 06/07/12

Lab Control Sample Summary
Sulfate

Analysis Method: 300.0

Units: mg/L
Basis: NA
Analysis Lot: 294965

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205452-LCS3	4.58	5.00	92	90-110
Lab Control Sample	K1205452-LCS4	4.56	5.00	91	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: K1205452
Date Collected: 06/6/12
Date Received: 06/7/12
Units: mg/L
Basis: NA

Alkalinity as CaCO₃, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1205452-001	267	9.0	1	06/13/12 20:53	
MW-21D	K1205452-002	295	9.0	1	06/13/12 20:53	
MW-21S	K1205452-003	300	9.0	1	06/13/12 20:53	
MW-22D	K1205452-004	290	9.0	1	06/13/12 20:53	
MW-22S	K1205452-005	309	9.0	1	06/13/12 20:53	
Method Blank	K1205452-MB1	ND U	9.0	1	06/13/12 20:53	
Method Blank	K1205452-MB2	ND U	9.0	1	06/13/12 20:53	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/13/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-11
Lab Code: K1205452-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205452- 001DUP4 Result	Average	RPD	RPD Limit
Alkalinity as CaCO3, Total	SM 2320 B	9.0	267	282	275	5	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452

Date Analyzed: 06/13/12

Lab Control Sample Summary
Alkalinity as CaCO₃, Total

Analysis Method: SM 2320 B

Units: mg/L

Basis: NA

Analysis Lot: 296181

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1205452-LCS3	65.8	64.9	101	94-106
Lab Control Sample	K1205452-LCS4	66.4	64.9	102	94-106

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: K1205452
Date Collected: 06/6/12
Date Received: 06/7/12
Units: mg/L
Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1205452-001	583	10	1	06/13/12 00:00	
MW-21D	K1205452-002	704	13	1	06/13/12 00:00	
MW-21S	K1205452-003	693	13	1	06/13/12 00:00	
MW-22D	K1205452-004	697	13	1	06/13/12 00:00	
MW-22S	K1205452-005	779	13	1	06/13/12 00:00	
Method Blank	K1205452-MB1	ND U	5.0	1	06/13/12 00:00	
Method Blank	K1205452-MB2	ND U	5.0	1	06/13/12 00:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/13/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-11
Lab Code: K1205452-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205452-001DUP4 Result	Average	RPD	RPD Limit
Solids, Total Dissolved	SM 2540 C	10	583	566	575	3	10

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Analyzed: 06/13/12

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units: mg/L
Basis: NA
Analysis Lot: 296007

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205452-LCS3	1180	1240	95	90-108

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 4500-CN- E
Prep Method: SM 4500-CN-C

Service Request: K1205452
Date Collected: 06/6/12
Date Received: 06/7/12
Units: mg/L
Basis: NA

Cyanide, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
MW-11	K1205452-001	ND U	0.010	1	06/19/12 17:53	6/19/12	
Method Blank	K1205452-MB1	ND U	0.0047	1	06/19/12 17:53	6/19/12	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/19/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-11
Lab Code: K1205452-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205452-001DUP4 Result	Average	RPD	RPD Limit
Cyanide, Total	SM 4500-CN- E	0.010	ND	ND	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/19/12
Date Extracted: 06/19/12

**Duplicate Matrix Spike Summary
 Cyanide, Total**

Sample Name: MW-11
Lab Code: K1205452-001
Analysis Method: SM 4500-CN- E
Prep Method: SM 4500-CN-C

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1205452-001MS2		Duplicate Matrix Spike K1205452-001DMS2		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Cyanide, Total	ND	0.094	0.100	94	0.097	0.100	97	23-148	3	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205452
Date Analyzed: 06/19/12
Date Extracted: 06/19/12

Lab Control Sample Summary
Cyanide, Total

Analysis Method: SM 4500-CN- E
Prep Method: SM 4500-CN-C

Units: mg/L
Basis: NA
Analysis Lot: 297025

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1205452-LCS3	1.47	1.46	101	84-115

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

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

Service Request: K1205452
Date Collected: 06/6/12
Date Received: 06/7/12
Units: mg/L
Basis: NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1205452-001	0.051	0.050	1	06/11/12 08:30	
MW-21D	K1205452-002	ND U	0.050	1	06/11/12 08:30	
MW-21S	K1205452-003	ND U	0.050	1	06/11/12 08:30	
MW-22D	K1205452-004	ND U	0.050	1	06/11/12 08:30	
MW-22S	K1205452-005	ND U	0.050	1	06/11/12 08:30	
Method Blank	K1205452-MB1	ND U	0.050	1	06/11/12 08:30	
Method Blank	K1205452-MB2	ND U	0.050	1	06/11/12 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/11/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-11
Lab Code: K1205452-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205452-001DUP4 Result	Average	RPD	RPD Limit
Ammonia as Nitrogen	SM 4500-NH3 E	0.050	0.051	ND	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/11/12

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: MW-11
Lab Code: K1205452-001
Analysis Method: SM 4500-NH3 E

Units: mg/L
Basis: NA

Matrix Spike
K1205452-001MS3

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	0.051	10.2	10.0	101	80-115

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205452
Date Analyzed: 06/11/12

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: SM 4500-NH3 E

Units: mg/L
Basis: NA
Analysis Lot: 295524

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1205452-LCS3	14.3	13.9	103	80-115
Lab Control Sample	K1205452-LCS4	13.6	13.9	98	80-115

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Report

Client: Schwyn Environmental Services
Project: Sudbury Road Landfill RI
Sample Matrix: Water
Analysis Method: SM 4500-S2- D

Service Request: K1205452
Date Collected: 06/6/12
Date Received: 06/7/12
Units: mg/L
Basis: NA

Total Sulfide

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
MW-11	K1205452-001	ND U	0.050	1	06/08/12 22:29	
Method Blank	K1205452-MB1	ND U	0.050	1	06/08/12 22:29	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/08/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-11
Lab Code: K1205452-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205452-001DUP4 Result	Average	RPD	RPD Limit
Total Sulfide	SM 4500-S2- D	0.050	ND	ND	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/8/12

**Duplicate Matrix Spike Summary
 Total Sulfide**

Sample Name: MW-11 **Units:** mg/L
Lab Code: K1205452-001 **Basis:** NA
Analysis Method: SM 4500-S2- D

Analyte Name	Sample Result	Result	Matrix Spike K1205452-001MS2		Duplicate Matrix Spike K1205452-001DMS2		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Total Sulfide	ND	1.69	1.77	96	1.70	1.77	96	70-120	<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 Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Analyzed: 06/08/12

Lab Control Sample Summary
Total Sulfide

Analysis Method: SM 4500-S2- D

Units: mg/L
Basis: NA
Analysis Lot: 295328

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205452-LCS3	1.63	1.77	92	89-106

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

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

Service Request: K1205452
Date Collected: 06/6/12
Date Received: 06/7/12

Units: mg/L
Basis: NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-11	K1205452-001	0.66	0.50	1	06/13/12 10:00	
MW-21D	K1205452-002	0.71	0.50	1	06/13/12 10:00	
MW-21S	K1205452-003	0.85	0.50	1	06/13/12 10:00	
MW-22D	K1205452-004	0.73	0.50	1	06/13/12 10:00	
MW-22S	K1205452-005	0.74	0.50	1	06/13/12 10:00	
Method Blank	K1205452-MB1	ND U	0.50	1	06/13/12 10:00	
Method Blank	K1205452-MB2	ND U	0.50	1	06/13/12 10:00	
Method Blank	K1205452-MB3	ND U	0.50	1	06/18/12 18:17	
Method Blank	K1205452-MB4	ND U	0.50	1	06/18/12 18:17	

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
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	K1205452-001DUP4	0.50	0.66	0.63	0.648	5	10	06/13/12
MW-21D	K1205452-002DUP5	0.50	0.71	0.74	0.723	5	10	06/13/12
MW-21S	K1205452-003DUP6	0.50	0.85	0.83	0.840	2	10	06/13/12
MW-22D	K1205452-004DUP7	0.50	0.73	0.84	0.783	14 *	10	06/13/12
MW-22S	K1205452-005DUP8	0.50	0.74	0.79	0.761	7	10	06/13/12

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Collected: 06/06/12
Date Received: 06/07/12
Date Analyzed: 06/13/12

Matrix Spike Summary
Carbon, Total Organic

Sample Name: MW-11
Lab Code: K1205452-001
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Matrix Spike
K1205452-001MS3

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic	0.66	25.7	25.0	100	83-117

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205452

Date Analyzed: 06/18/12

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method: SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 296664

Analyte Name	Lab Control Sample K1205452-LCS1			Duplicate Lab Control Sample K1205452-DLCS1			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic	22.1	22.7	97	21.9	22.7	96	83-117	1	10

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205452
Date Analyzed: 06/18/12

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method: SM 5310 C

Units: mg/L
Basis: NA
Analysis Lot: 296664

Analyte Name	Lab Control Sample K1205452-LCS2			Duplicate Lab Control Sample K1205452-DLCS2			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic	22.2	22.7	98	22.0	22.7	97	83-117	1	10

Metals

COLUMBIA ANALYTICAL SERVICES, INC.
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- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

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

Service Request: K1205452

<u>Sample Name:</u>	<u>Lab Code:</u>
<u>MW-11</u>	<u>K1205452-001</u>
<u>MW-11D</u>	<u>K1205452-001D</u>
<u>MW-11</u>	<u>K1205452-001DISS</u>
<u>MW-11D</u>	<u>K1205452-001DISSD</u>
<u>MW-11S</u>	<u>K1205452-001DISSS</u>
<u>MW-11S</u>	<u>K1205452-001S</u>
<u>MW-21D</u>	<u>K1205452-002DISS</u>
<u>MW-21S</u>	<u>K1205452-003DISS</u>
<u>MW-22D</u>	<u>K1205452-004DISS</u>
<u>MW-22S</u>	<u>K1205452-005DISS</u>
<u>Method Blank</u>	<u>K1205452-MB</u>

Comments:

Approved By:



50

Date:

6/25/12

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205452
Project No.: NA Date Collected: 06/06/12
Project Name: Sudbury Road Landfill RI Date Received: 06/07/12
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-11 Lab Code: K1205452-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Mercury	7470A	0.2	1.0	06/18/12	06/19/12	0.2	U	
Nickel	6010C	2.0	1.0	06/11/12	06/20/12	8.4		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
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Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205452
Project No.: NA Date Collected: 06/06/12
Project Name: Sudbury Road Landfill RI Date Received: 06/07/12
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-11 Lab Code: K1205452-001DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Arsenic	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Barium	6010C	2.0	1.0	06/11/12	06/20/12	66.9		
Beryllium	6010C	0.2	1.0	06/11/12	06/20/12	0.2	U	
Cadmium	6010C	0.5	1.0	06/11/12	06/20/12	0.5	U	
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	89400		
Chromium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Cobalt	6010C	1.0	1.0	06/11/12	06/20/12	1.0	U	
Copper	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Lead	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	35400		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	5.0	U	
Potassium	6010C	400	1.0	06/11/12	06/20/12	8010		
Selenium	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Silver	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Sodium	6010C	200	1.0	06/11/12	06/20/12	36700		
Thallium	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Tin	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Vanadium	6010C	2.0	1.0	06/11/12	06/20/12	14.2		
Zinc	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205452
 Project No.: NA Date Collected: 06/06/12
 Project Name: Sudbury Road Landfill RI Date Received: 06/07/12
 Matrix: WATER Units: ug/L
 Basis: NA

Sample Name: MW-21D Lab Code: K1205452-002DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	119000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	53900		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	8.1		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7730		
Sodium	6010C	200	1.0	06/11/12	06/20/12	19200		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205452
Project No.: NA Date Collected: 06/06/12
Project Name: Sudbury Road Landfill RI Date Received: 06/07/12
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-21S Lab Code: K1205452-003DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	116000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	49300		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	159		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7930		
Sodium	6010C	200	1.0	06/11/12	06/20/12	25400		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205452
Project No.: NA Date Collected: 06/06/12
Project Name: Sudbury Road Landfill RI Date Received: 06/07/12
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-22D Lab Code: K1205452-004DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	121000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	54500		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	236		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7980		
Sodium	6010C	200	1.0	06/11/12	06/20/12	19200		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205452
Project No.: NA Date Collected: 06/06/12
Project Name: Sudbury Road Landfill RI Date Received: 06/07/12
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-22S Lab Code: K1205452-005DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	122000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	52800		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	15.5		
Potassium	6010C	400	1.0	06/11/12	06/20/12	8080		
Sodium	6010C	200	1.0	06/11/12	06/20/12	25500		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205452
Project No.: NA Date Collected:
Project Name: Sudbury Road Landfill RI Date Received:
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: Method Blank Lab Code: K1205452-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Arsenic	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Barium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Beryllium	6010C	0.2	1.0	06/11/12	06/20/12	0.2	U	
Cadmium	6010C	0.5	1.0	06/11/12	06/20/12	0.5	U	
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	50.0	U	
Chromium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Cobalt	6010C	1.0	1.0	06/11/12	06/20/12	1.0	U	
Copper	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Lead	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	5.0	U	
Mercury	7470A	0.2	1.0	06/18/12	06/19/12	0.2	U	
Potassium	6010C	400	1.0	06/11/12	06/20/12	400	U	
Selenium	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Silver	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Sodium	6010C	200	1.0	06/11/12	06/20/12	200	U	
Thallium	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Tin	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Vanadium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Zinc	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	

Comments:

Metals
- 5A -
SPIKE SAMPLE RECOVERY

Client: Schwyn Environmental Services Service Request: K1205452
Project No.: NA Units: UG/L
Project Name: Sudbury Road Landfill RI Basis: NA
Matrix: WATER

Sample Name: MW-11S

Lab Code: K1205452-001S

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Antimony	86 - 116	479	10.0 U	500.00	95.8		6010C
Arsenic	79 - 121	949	10.0 U	1000.00	94.9		6010C
Barium	80 - 124	2000	67.3	2000.00	96.6		6010C
Beryllium	87 - 114	48.8	0.2 U	50.00	97.6		6010C
Cadmium	75 - 125	47.2	0.5 U	50.00	94.4		6010C
Calcium		99000	90000	10000.00	90.0		6010C
Chromium	89 - 117	194	2.0 U	200.00	97.0		6010C
Cobalt	88 - 117	480	1.0 U	500.00	96.0		6010C
Copper	86 - 113	233	2.0 U	250.00	93.2		6010C
Iron	75 - 125	967	20.0 U	1000.00	96.7		6010C
Lead	75 - 125	493	10.0 U	500.00	98.6		6010C
Magnesium	75 - 125	45000	35400	10000.00	96.0		6010C
Manganese	84 - 121	480	5.0 U	500.00	96.0		6010C
Mercury	76 - 126	1.00	0.2 U	1.00	100.0		7470A
Potassium	75 - 125	17900	8020	10000.00	98.8		6010C
Selenium	82 - 119	913	20.0 U	1000.00	91.3		6010C
Silver	79 - 120	47.0	2.0 U	50.00	94.0		6010C
Sodium	75 - 125	46300	36500	10000.00	98.0		6010C
Thallium	75 - 125	1010	10.0 U	1000.00	101.0		6010C
Tin	75 - 125	10300	10.0 U	10000.00	103.0		6010C
Vanadium	89 - 115	518	13.7	500.00	100.9		6010C
Zinc	87 - 113	462	2.0 U	500.00	92.4		6010C

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

Metals
 - 5A -
SPIKE SAMPLE RECOVERY

Client: Schwyn Environmental Services **Service Request:** K1205452
Project No.: NA **Units:** UG/L
Project Name: Sudbury Road Landfill RI **Basis:** NA
Matrix: WATER

Sample Name: MW-11S

Lab Code: K1205452-001DISSS

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Antimony	86 - 116	474	10.0 U	500.00	94.8		6010C
Arsenic	79 - 121	952	10.0 U	1000.00	95.2		6010C
Barium	80 - 124	2010	66.9	2000.00	97.2		6010C
Beryllium	87 - 114	48.7	0.2 U	50.00	97.4		6010C
Cadmium	75 - 125	47.5	0.5 U	50.00	95.0		6010C
Calcium		98500	89400	10000.00	91.0		6010C
Chromium	89 - 117	196	2.0 U	200.00	98.0		6010C
Cobalt	88 - 117	480	1.0 U	500.00	96.0		6010C
Copper	86 - 113	231	2.0 U	250.00	92.4		6010C
Iron	75 - 125	963	20.0 U	1000.00	96.3		6010C
Lead	75 - 125	498	10.0 U	500.00	99.6		6010C
Magnesium	75 - 125	44400	35400	10000.00	90.0		6010C
Manganese	84 - 121	484	5.0 U	500.00	96.8		6010C
Potassium	75 - 125	17600	8010	10000.00	95.9		6010C
Selenium	82 - 119	919	20.0 U	1000.00	91.9		6010C
Silver	79 - 120	46.8	2.0 U	50.00	93.6		6010C
Sodium	75 - 125	45400	36700	10000.00	87.0		6010C
Thallium	75 - 125	1020	10.0 U	1000.00	102.0		6010C
Tin	75 - 125	10400	10.0 U	10000.00	104.0		6010C
Vanadium	89 - 115	521	14.2	500.00	101.4		6010C
Zinc	87 - 113	468	2.0 U	500.00	93.6		6010C

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

COLUMBIA ANALYTICAL SERVICES, INC.

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Metals

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DUPLICATES

Client: Schwyn Environmental Services

Service Request: K1205452

Project No.: NA

Units: UG/L

Project Name: Sudbury Road Landfill RI

Basis: NA

Matrix: WATER

Sample Name: MW-11D

Lab Code: K1205452-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		10.0	U	10.0	U			6010C
Arsenic		10.0	U	10.0	U			6010C
Barium	20	67.3		67.1		0.3		6010C
Beryllium		0.2	U	0.2	U			6010C
Cadmium		0.5	U	0.5	U			6010C
Calcium	20	90000		89100		1.0		6010C
Chromium		2.0	U	2.0	U			6010C
Cobalt		1.0	U	1.0	U			6010C
Copper		2.0	U	2.0	U			6010C
Iron		20.0	U	20.0	U			6010C
Lead		10.0	U	10.0	U			6010C
Magnesium	20	35400		35600		0.6		6010C
Manganese		5.0	U	5.0	U			6010C
Mercury		0.2	U	0.2	U			7470A
Potassium	20	8020		8070		0.6		6010C
Selenium		20.0	U	20.0	U			6010C
Silver		2.0	U	2.0	U			6010C
Sodium	20	36500		36800		0.8		6010C
Thallium		10.0	U	10.0	U			6010C
Tin		10.0	U	10.0	U			6010C
Vanadium	20	13.7		13.4		2.2		6010C
Zinc		2.0	U	2.0	U			6010C

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

COLUMBIA ANALYTICAL SERVICES, INC.

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Metals

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DUPLICATES

Client: Schwyn Environmental Services Service Request: K1205452
 Project No.: NA Units: UG/L
 Project Name: Sudbury Road Landfill RI Basis: NA
 Matrix: WATER

Sample Name: MW-11D

Lab Code: K1205452-001DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		10.0	U	10.0	U			6010C
Arsenic		10.0	U	10.0	U			6010C
Barium	20	66.9		66.2		1.1		6010C
Beryllium		0.2	U	0.2	U			6010C
Cadmium		0.5	U	0.5	U			6010C
Calcium	20	89400		88600		0.9		6010C
Chromium		2.0	U	2.0	U			6010C
Cobalt		1.0	U	1.0	U			6010C
Copper		2.0	U	2.0	U			6010C
Iron		20.0	U	20.0	U			6010C
Lead		10.0	U	10.0	U			6010C
Magnesium	20	35400		35100		0.9		6010C
Manganese		5.0	U	5.0	U			6010C
Potassium	20	8010		7910		1.3		6010C
Selenium		20.0	U	20.0	U			6010C
Silver		2.0	U	2.0	U			6010C
Sodium	20	36700		36300		1.1		6010C
Thallium		10.0	U	10.0	U			6010C
Tin		10.0	U	10.0	U			6010C
Vanadium	20	14.2		13.6		4.3		6010C
Zinc		2.0	U	2.0	U			6010C

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

Metals

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LABORATORY CONTROL SAMPLE

Client: Schwyn Environmental Services

Service Request: K1205452

Project No.: NA

Project Name: Sudbury Road Landfill RI

Aqueous LCS Source: CAS MIXED

Solid LCS Source:

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Antimony	2500	2450	98.0					
Arsenic	2500	2400	96.0					
Barium	5000	4890	97.8					
Beryllium	125	123	98.4					
Cadmium	1250	1210	96.8					
Calcium	12500	12200	97.6					
Chromium	500	493	98.6					
Cobalt	1250	1240	99.2					
Copper	625	604	96.6					
Iron	2500	2380	95.2					
Lead	2500	2470	98.8					
Magnesium	12500	12200	97.6					
Manganese	1250	1240	99.2					
Mercury	5	5.16	103.2					
Potassium	12500	12300	98.4					
Selenium	2500	2370	94.8					
Silver	625	587	93.9					
Sodium	12500	12400	99.2					
Thallium	2500	2540	101.6					
Tin	10000	10000	100.0					
Vanadium	1250	1260	100.8					
Zinc	1250	1190	95.2					

Organochlorine Pesticides

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Organochlorine Pesticides

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Heptachlor	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Aldrin	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Endrin	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDD	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND	U	0.0099	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND	U	0.50	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND	U	0.20	1	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	88	20-106	06/15/12	Acceptable
Decachlorobiphenyl	105	19-127	06/15/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Organochlorine Pesticides

Sample Name: Method Blank
Lab Code: KWG1206513-6
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Heptachlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Aldrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDD	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND	U	0.49	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND	U	0.20	1	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	74	20-106	06/15/12	Acceptable
Decachlorobiphenyl	91	19-127	06/15/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452

Surrogate Recovery Summary
Organochlorine Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>
MW-11	K1205452-001	88	105
Method Blank	KWG1206513-6	74	91
MW-11MS	KWG1206513-1	74	91
MW-11DMS	KWG1206513-2	74	91
Lab Control Sample	KWG1206513-3	74	87
Lab Control Sample	KWG1206513-4	70	91
Duplicate Lab Control Sample	KWG1206513-5	69	79

Surrogate Recovery Control Limits (%)

Sur1 = Tetrachloro-m-xylene 20-106
Sur2 = Decachlorobiphenyl 19-127

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.

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QA/QC Report

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

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/15/2012

Matrix Spike/Duplicate Matrix Spike Summary
Organochlorine Pesticides

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206513

Analyte Name	Sample Result	MW-11MS KWG1206513-1 Matrix Spike			MW-11DMS KWG1206513-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
alpha-BHC	ND	0.174	0.196	89	0.179	0.196	91	31-123	3	30
beta-BHC	ND	0.164	0.196	83	0.169	0.196	86	31-118	3	30
gamma-BHC (Lindane)	ND	0.177	0.196	90	0.182	0.196	93	31-123	3	30
delta-BHC	ND	0.188	0.196	96	0.194	0.196	99	40-129	3	30
Heptachlor	ND	0.174	0.196	89	0.184	0.196	94	23-124	6	30
Aldrin	ND	0.133	0.196	68	0.150	0.196	76	18-111	12	30
Heptachlor Epoxide	ND	0.171	0.196	87	0.176	0.196	90	28-122	3	30
Endosulfan I	ND	0.139	0.196	71	0.145	0.196	74	17-118	4	30
Dieldrin	ND	0.171	0.196	87	0.176	0.196	90	32-121	3	30
4,4'-DDE	ND	0.166	0.196	85	0.173	0.196	88	24-129	4	30
Endrin	ND	0.173	0.196	88	0.186	0.196	95	34-133	8	30
Endosulfan II	ND	0.154	0.196	79	0.159	0.196	81	19-122	3	30
4,4'-DDD	ND	0.170	0.196	87	0.177	0.196	90	29-125	4	30
Endrin Aldehyde	ND	0.169	0.196	86	0.172	0.196	88	10-108	2	30
Endosulfan Sulfate	ND	0.172	0.196	88	0.176	0.196	90	30-120	2	30
4,4'-DDT	ND	0.184	0.196	94	0.190	0.196	97	28-139	3	30
Methoxychlor	ND	0.182	0.196	93	0.189	0.196	96	30-137	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: Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/15/2012

**Lab Control Spike Summary
 Organochlorine Pesticides**

Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206513

Lab Control Sample
 KWG1206513-3
 Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
alpha-BHC	0.178	0.200	89	36-122
beta-BHC	0.166	0.200	83	42-125
gamma-BHC (Lindane)	0.179	0.200	90	44-117
delta-BHC	0.191	0.200	96	48-123
Heptachlor	0.180	0.200	90	40-115
Aldrin	0.139	0.200	69	10-102
Heptachlor Epoxide	0.173	0.200	87	49-109
Endosulfan I	0.141	0.200	71	35-115
Dieldrin	0.173	0.200	86	50-115
4,4'-DDE	0.167	0.200	83	41-116
Endrin	0.180	0.200	90	48-126
Endosulfan II	0.154	0.200	77	28-128
4,4'-DDD	0.172	0.200	86	33-132
Endrin Aldehyde	0.157	0.200	78	27-104
Endosulfan Sulfate	0.169	0.200	84	38-118
4,4'-DDT	0.183	0.200	92	42-143
Methoxychlor	0.176	0.200	88	43-143

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/15/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Organochlorine Pesticides**

Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206513

Analyte Name	Lab Control Sample KWG1206513-4 Lab Control Spike			Duplicate Lab Control Sample KWG1206513-5 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Chlordane	2.22	2.00	111	1.91	2.00	96	45-148	15	30
Toxaphene	1.85	2.00	92	1.87	2.00	94	36-137	1	30

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Polychlorinated Biphenyls

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Polychlorinated Biphenyls (PCBs)

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 3535A
Analysis Method: 8082A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1221	ND	U	0.40	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1232	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1242	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1248	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1254	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1260	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1262	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	105	36-113	06/17/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG1206512-4

Units: ug/L

Basis: NA

Extraction Method: EPA 3535A

Level: Low

Analysis Method: 8082A

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1221	ND	U	0.39	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1232	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1242	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1248	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1254	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1260	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1262	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	101	36-113	06/17/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3535A
Analysis Method: 8082A

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
MW-11	K1205452-001	105
Method Blank	KWG1206512-4	101
MW-11MS	KWG1206512-1	98
MW-11DMS	KWG1206512-2	102
Lab Control Sample	KWG1206512-3	91

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 36-113

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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 Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/17/2012

**Matrix Spike/Duplicate Matrix Spike Summary
 Polychlorinated Biphenyls (PCBs)**

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 3535A
Analysis Method: 8082A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206512

Analyte Name	Sample Result	MW-11MS KWG1206512-1 Matrix Spike			MW-11DMS KWG1206512-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	ND	1.85	1.96	94	1.72	1.96	88	31-118	7	30
Aroclor 1260	ND	1.86	1.96	95	1.75	1.96	89	47-115	6	30

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/17/2012

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3535A
Analysis Method: 8082A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206512

Lab Control Sample
KWG1206512-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Aroclor 1016	1.67	2.00	83	41-113
Aroclor 1260	1.74	2.00	87	47-117

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.

Organophosphorus Pesticides

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Organophosphorus Pesticides

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phorate	ND	U	0.50	1	06/13/12	06/24/12	KWG1206535	
Sulfotep	ND	U	0.20	1	06/13/12	06/24/12	KWG1206535	
Disulfoton	ND	U	0.99	1	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND	U	0.50	1	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND	U	0.50	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND	U	0.50	1	06/13/12	06/24/12	KWG1206535	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	107	54-115	06/24/12	Acceptable
Triphenyl Phosphate	95	57-112	06/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Organophosphorus Pesticides

Sample Name: Method Blank
Lab Code: KWG1206535-6
Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phorate	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Sulfotep	ND	U	0.20	1	06/13/12	06/24/12	KWG1206535	
Disulfoton	ND	U	0.98	1	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	104	54-115	06/24/12	Acceptable
Triphenyl Phosphate	86	57-112	06/24/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452

**Surrogate Recovery Summary
 Organophosphorus Pesticides**

Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>
MW-11	K1205452-001	107	95
Batch QC	K1205520-007	100	86
Batch QC	K1205520-008	99	93
Batch QC	K1205520-009	105	96
Method Blank	KWG1206535-6	104	86
MW-11MS	KWG1206535-1	102	85
MW-11DMS	KWG1206535-2	98	89
Lab Control Sample	KWG1206535-3	98	81
Lab Control Sample	KWG1206535-4	102	86
Duplicate Lab Control Sample	KWG1206535-5	100	88

Surrogate Recovery Control Limits (%)

Sur1 = Tributyl Phosphate	54-115
Sur2 = Triphenyl Phosphate	57-112

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 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 Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/24/2012

Matrix Spike/Duplicate Matrix Spike Summary
Organophosphorus Pesticides

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206535

Analyte Name	Sample Result	MW-11MS KWG1206535-1 Matrix Spike			MW-11DMS KWG1206535-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Sulfotep	ND	1.65	1.98	83	1.65	1.96	84	40-111	0	30
Methyl Parathion	ND	2.31	1.98	116	2.21	1.96	113	44-127	4	30
Ethyl Parathion	ND	1.91	1.98	96	1.90	1.96	97	46-127	0	30

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/24/2012

Lab Control Spike Summary
Organophosphorus Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206535

Analyte Name	Lab Control Sample KWG1206535-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Sulfotep	1.57	2.00	78	40-111
Methyl Parathion	2.16	2.00	108	44-127
Ethyl Parathion	1.74	2.00	87	46-127

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 Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/24/2012 -
 06/26/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Organophosphorus Pesticides**

Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206535

Analyte Name	Lab Control Sample KWG1206535-4 Lab Control Spike			Duplicate Lab Control Sample KWG1206535-5 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Phorate	2.05	2.00	102	1.97	2.00	98	29-128	4	30
Disulfoton	2.24	2.00	112	2.09	2.00	104	33-119	7	30
Dimethoate	1.90	2.00	95	2.00	2.00	100	35-132	5	30

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Chlorinated Herbicides

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Chlorinated Herbicides

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: METHOD
Analysis Method: 8151A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-D	ND	U	0.40	1	06/13/12	06/22/12	KWG1206627	
2,4,5-TP (Silvex)	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	
2,4,5-T	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	
Dinoseb	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	71	17-113	06/22/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Chlorinated Herbicides

Sample Name: Method Blank
Lab Code: KWG1206627-6
Extraction Method: METHOD
Analysis Method: 8151A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-D	ND	U	0.39	1	06/13/12	06/22/12	KWG1206627	
2,4,5-TP (Silvex)	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	
2,4,5-T	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	
Dinoseb	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	69	17-113	06/22/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452

Surrogate Recovery Summary
Chlorinated Herbicides

Extraction Method: METHOD
Analysis Method: 8151A

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
MW-11	K1205452-001	71
Method Blank	KWG1206627-6	69
MW-11MS	KWG1206627-3	75
MW-11DMS	KWG1206627-4	81
Lab Control Sample	KWG1206627-5	82

Surrogate Recovery Control Limits (%)

Sur1 = 2,4-Dichlorophenylacetic Acid 17-113

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 Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/22/2012

Matrix Spike/Duplicate Matrix Spike Summary
Chlorinated Herbicides

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: METHOD
Analysis Method: 8151A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206627

Analyte Name	Sample Result	MW-11MS KWG1206627-3 Matrix Spike			MW-11DMS KWG1206627-4 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
2,4-D	ND	1.57	2.43	65	1.64	2.40	68	41-108	4	30
2,4,5-TP (Silvex)	ND	1.72	2.43	71	1.79	2.40	75	44-108	5	30
2,4,5-T	ND	1.70	2.43	70	1.77	2.40	74	31-106	4	30
Dinoseb	ND	1.18	2.43	49	1.54	2.40	64	44-81	26	30

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/22/2012

Lab Control Spike Summary
Chlorinated Herbicides

Extraction Method: METHOD
Analysis Method: 8151A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206627

Lab Control Sample
 KWG1206627-5
 Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
2,4-D	1.68	2.50	67	35-110
2,4,5-TP (Silvex)	1.79	2.50	71	37-114
2,4,5-T	1.80	2.50	72	30-120
Dinoseb	1.42	2.50	57	11-105

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.

Volatile Organic Compounds

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-11
Lab Code: K1205452-001
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	0.56		0.50	1	06/13/12	06/13/12	KWG1206404	
Chloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Acetone	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Iodomethane	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	1.1		0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Carbon Tetrachloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	1.2		0.50	1	06/13/12	06/13/12	KWG1206404	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-11
Lab Code: K1205452-001
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	06/13/12	06/13/12	KWG1206404	
Dibromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
m,p-Xylenes	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromoform	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	
1,2,3-Trichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	78	73-122	06/13/12	Acceptable
Toluene-d8	89	65-144	06/13/12	Acceptable
4-Bromofluorobenzene	78	68-117	06/13/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-21D
Lab Code: K1205452-002
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	06/13/12	06/13/12	KWG1206404	
Chloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	0.53		0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Acetone	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Iodomethane	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	0.54		0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Carbon Tetrachloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	0.89		0.50	1	06/13/12	06/13/12	KWG1206404	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-21D
Lab Code: K1205452-002
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	06/13/12	06/13/12	KWG1206404	
Dibromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
m,p-Xylenes	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromoform	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	
1,2,3-Trichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	80	73-122	06/13/12	Acceptable
Toluene-d8	88	65-144	06/13/12	Acceptable
4-Bromofluorobenzene	78	68-117	06/13/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-21S
Lab Code: K1205452-003
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.60		0.50	1	06/13/12	06/13/12	KWG1206404	
Chloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	0.93		0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Acetone	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Iodomethane	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Carbon Tetrachloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	0.84		0.50	1	06/13/12	06/13/12	KWG1206404	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-21S
Lab Code: K1205452-003
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	06/13/12	06/13/12	KWG1206404	
Dibromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
m,p-Xylenes	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromoform	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	
1,2,3-Trichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	78	73-122	06/13/12	Acceptable
Toluene-d8	88	65-144	06/13/12	Acceptable
4-Bromofluorobenzene	79	68-117	06/13/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
 Date Collected: 06/06/2012
 Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-22D
 Lab Code: K1205452-004
 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	06/13/12	06/13/12	KWG1206404	
Chloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	0.64		0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Acetone	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Iodomethane	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	0.55		0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Carbon Tetrachloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	0.83		0.50	1	06/13/12	06/13/12	KWG1206404	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-22D
Lab Code: K1205452-004
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	06/13/12	06/13/12	KWG1206404	
Dibromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
m,p-Xylenes	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromoform	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	
1,2,3-Trichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	81	73-122	06/13/12	Acceptable
Toluene-d8	89	65-144	06/13/12	Acceptable
4-Bromofluorobenzene	77	68-117	06/13/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-22S
Lab Code: K1205452-005
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	0.68		0.50	1	06/13/12	06/13/12	KWG1206404	
Chloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	0.98		0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Acetone	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Iodomethane	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	0.57		0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Carbon Tetrachloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	0.97		0.50	1	06/13/12	06/13/12	KWG1206404	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-22S
Lab Code: K1205452-005
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	06/13/12	06/13/12	KWG1206404	
Dibromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
m,p-Xylenes	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromoform	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	
1,2,3-Trichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	79	73-122	06/13/12	Acceptable
Toluene-d8	90	65-144	06/13/12	Acceptable
4-Bromofluorobenzene	77	68-117	06/13/12	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
 Date Collected: 06/05/2012
 Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-9
 Lab Code: K1205452-006
 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	06/12/12	06/12/12	KWG1206333	
Chloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Chloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichlorofluoromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Acetone	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Iodomethane	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
Carbon Disulfide	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Methylene Chloride	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Acrylonitrile	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Acetate	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
2-Butanone (MEK)	ND	U	20	1	06/12/12	06/12/12	KWG1206333	*
Bromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroform	0.81		0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Carbon Tetrachloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Benzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichloroethene (TCE)	1.4		0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloropropane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Dibromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromodichloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Toluene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,2-Trichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Tetrachloroethene (PCE)	0.54		0.50	1	06/12/12	06/12/12	KWG1206333	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/05/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-9
Lab Code: K1205452-006
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	06/12/12	06/12/12	KWG1206333	*
Dibromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Chlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Ethylbenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
m,p-Xylenes	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
o-Xylene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Styrene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromoform	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	
1,2,3-Trichloropropane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,4-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	80	73-122	06/12/12	Acceptable
Toluene-d8	90	65-144	06/12/12	Acceptable
4-Bromofluorobenzene	79	68-117	06/12/12	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/05/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-10
Lab Code: K1205452-007
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	06/12/12	06/12/12	KWG1206333	
Chloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Chloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichlorofluoromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Acetone	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Iodomethane	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
Carbon Disulfide	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Methylene Chloride	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Acrylonitrile	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Acetate	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
2-Butanone (MEK)	ND	U	20	1	06/12/12	06/12/12	KWG1206333	*
Bromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroform	1.6		0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Carbon Tetrachloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Benzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichloroethene (TCE)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloropropane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Dibromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromodichloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Toluene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,2-Trichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Tetrachloroethene (PCE)	0.68		0.50	1	06/12/12	06/12/12	KWG1206333	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/05/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-10
Lab Code: K1205452-007
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	06/12/12	06/12/12	KWG1206333	*
Dibromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Chlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Ethylbenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
m,p-Xylenes	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
o-Xylene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Styrene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromoform	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	
1,2,3-Trichloropropane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,4-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	79	73-122	06/12/12	Acceptable
Toluene-d8	89	65-144	06/12/12	Acceptable
4-Bromofluorobenzene	81	68-117	06/12/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
 Date Collected: 06/05/2012
 Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-5
 Lab Code: K1205452-008
 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	06/12/12	06/12/12	KWG1206333	
Chloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Chloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichlorofluoromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Acetone	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Iodomethane	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
Carbon Disulfide	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Methylene Chloride	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Acrylonitrile	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Acetate	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
2-Butanone (MEK)	ND	U	20	1	06/12/12	06/12/12	KWG1206333	*
Bromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroform	0.57		0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Carbon Tetrachloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Benzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichloroethene (TCE)	1.7		0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloropropane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Dibromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromodichloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Toluene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,2-Trichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Tetrachloroethene (PCE)	0.77		0.50	1	06/12/12	06/12/12	KWG1206333	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/05/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-5
Lab Code: K1205452-008
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	06/12/12	06/12/12	KWG1206333	*
Dibromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Chlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Ethylbenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
m,p-Xylenes	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
o-Xylene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Styrene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromoform	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	
1,2,3-Trichloropropane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,4-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	79	73-122	06/12/12	Acceptable
Toluene-d8	89	65-144	06/12/12	Acceptable
4-Bromofluorobenzene	80	68-117	06/12/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/05/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: TB
Lab Code: K1205452-009
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	06/12/12	06/12/12	KWG1206333	
Chloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Chloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichlorofluoromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Acetone	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Iodomethane	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
Carbon Disulfide	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Methylene Chloride	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Acrylonitrile	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Acetate	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
2-Butanone (MEK)	ND	U	20	1	06/12/12	06/12/12	KWG1206333	*
Bromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroform	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Carbon Tetrachloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Benzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichloroethene (TCE)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloropropane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Dibromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromodichloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Toluene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,2-Trichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/05/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: TB
Lab Code: K1205452-009
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	06/12/12	06/12/12	KWG1206333	*
Dibromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Chlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Ethylbenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
m,p-Xylenes	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
o-Xylene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Styrene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromoform	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	
1,2,3-Trichloropropane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,4-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	79	73-122	06/12/12	Acceptable
Toluene-d8	90	65-144	06/12/12	Acceptable
4-Bromofluorobenzene	79	68-117	06/12/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206333-5
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	06/12/12	06/12/12	KWG1206333	
Chloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Chloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichlorofluoromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Acetone	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Iodomethane	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
Carbon Disulfide	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Methylene Chloride	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Acrylonitrile	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1-Dichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Vinyl Acetate	ND	U	5.0	1	06/12/12	06/12/12	KWG1206333	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
2-Butanone (MEK)	ND	U	20	1	06/12/12	06/12/12	KWG1206333	*
Bromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Chloroform	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Carbon Tetrachloride	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Benzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Trichloroethene (TCE)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichloropropane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Dibromomethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromodichloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/12/12	06/12/12	KWG1206333	
Toluene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,2-Trichloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206333-5
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	06/12/12	06/12/12	KWG1206333	*
Dibromochloromethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	
Chlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Ethylbenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
m,p-Xylenes	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
o-Xylene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Styrene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
Bromoform	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/12/12	06/12/12	KWG1206333	
1,2,3-Trichloropropane	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,4-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dichlorobenzene	ND	U	0.50	1	06/12/12	06/12/12	KWG1206333	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/12/12	06/12/12	KWG1206333	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	78	73-122	06/12/12	Acceptable
Toluene-d8	88	65-144	06/12/12	Acceptable
4-Bromofluorobenzene	79	68-117	06/12/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206404-5
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	06/13/12	06/13/12	KWG1206404	
Chloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Chloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichlorofluoromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Acetone	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Iodomethane	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
Carbon Disulfide	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Methylene Chloride	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Acrylonitrile	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1-Dichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Vinyl Acetate	ND	U	5.0	1	06/13/12	06/13/12	KWG1206404	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
2-Butanone (MEK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Bromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Chloroform	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Carbon Tetrachloride	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Benzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Trichloroethene (TCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Dibromomethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromodichloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/13/12	06/13/12	KWG1206404	
Toluene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
1,1,2-Trichloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206404-5
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	06/13/12	06/13/12	KWG1206404	
Dibromochloromethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	
Chlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Ethylbenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
m,p-Xylenes	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
o-Xylene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Styrene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
Bromoform	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/13/12	06/13/12	KWG1206404	
1,2,3-Trichloropropane	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,4-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dichlorobenzene	ND	U	0.50	1	06/13/12	06/13/12	KWG1206404	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/13/12	06/13/12	KWG1206404	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	79	73-122	06/13/12	Acceptable
Toluene-d8	90	65-144	06/13/12	Acceptable
4-Bromofluorobenzene	79	68-117	06/13/12	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205452

**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-11	K1205452-001	78	89	78
MW-21D	K1205452-002	80	88	78
MW-21S	K1205452-003	78	88	79
MW-22D	K1205452-004	81	89	77
MW-22S	K1205452-005	79	90	77
MW-9	K1205452-006	80	90	79
MW-10	K1205452-007	79	89	81
MW-5	K1205452-008	79	89	80
TB	K1205452-009	79	90	79
Method Blank	KWG1206333-5	78	88	79
Method Blank	KWG1206404-5	79	90	79
MW-11MS	KWG1206404-1	86	92	83
MW-11DMS	KWG1206404-2	85	91	82
Lab Control Sample	KWG1206333-3	85	93	81
Duplicate Lab Control Sample	KWG1206333-4	86	93	85
Lab Control Sample	KWG1206404-3	83	93	81
Duplicate Lab Control Sample	KWG1206404-4	87	92	81

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 Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/13/2012

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

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206404

Analyte Name	Sample Result	MW-11MS KWG1206404-1 Matrix Spike			MW-11DMS KWG1206404-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	9.49	10.0	95	9.27	10.0	93	49-136	2	30
1,1-Dichloroethene	ND	12.1	10.0	121	12.0	10.0	120	59-171	1	30
Chloroform	1.1	11.4	10.0	103	11.2	10.0	101	64-133	2	30
Carbon Tetrachloride	ND	9.71	10.0	97	9.69	10.0	97	53-161	0	30
Benzene	ND	9.61	10.0	96	9.48	10.0	95	63-144	1	30
Trichloroethene (TCE)	ND	9.96	10.0	100	9.71	10.0	97	53-139	3	30
Bromodichloromethane	ND	8.65	10.0	87	8.56	10.0	86	61-134	1	30
Toluene	ND	9.71	10.0	97	9.63	10.0	96	71-136	1	30
1,1,2-Trichloroethane	ND	8.88	10.0	89	8.92	10.0	89	74-124	0	30
2-Hexanone	ND	44.9	50.0	90	44.6	50.0	89	53-132	1	30
Chlorobenzene	ND	9.96	10.0	100	9.66	10.0	97	69-126	3	30
Ethylbenzene	ND	9.48	10.0	95	9.20	10.0	92	66-136	3	30
1,2,3-Trichloropropane	ND	9.50	10.0	95	9.75	10.0	98	71-127	3	30
1,2-Dichlorobenzene	ND	9.46	10.0	95	9.63	10.0	96	72-119	2	30

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Extracted: 06/12/2012
Date Analyzed: 06/12/2012

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206333

Analyte Name	Lab Control Sample KWG1206333-3 Lab Control Spike			Duplicate Lab Control Sample KWG1206333-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Dichlorodifluoromethane	8.35	10.0	84	8.16	10.0	82	32-124	2	30
Chloromethane	7.86	10.0	79	7.78	10.0	78	34-130	1	30
Vinyl Chloride	7.52	10.0	75	7.24	10.0	72	55-123	4	30
Bromomethane	7.33	10.0	73	7.51	10.0	75	35-113	2	30
Chloroethane	8.52	10.0	85	8.20	10.0	82	58-134	4	30
Trichlorofluoromethane	7.97	10.0	80	7.70	10.0	77	52-141	3	30
1,1-Dichloroethene	9.93	10.0	99	9.57	10.0	96	66-129	4	30
Acetone	54.4	50.0	109	52.3	50.0	105	68-135	4	30
Iodomethane	42.9	30.0	143	43.6	30.0	145	51-164	2	30
Carbon Disulfide	13.1	20.0	65	12.8	20.0	64	46-144	2	30
Methylene Chloride	8.77	10.0	88	8.60	10.0	86	71-122	2	30
Acrylonitrile	36.9	40.0	92	36.9	40.0	92	65-129	0	30
trans-1,2-Dichloroethene	8.75	10.0	88	8.42	10.0	84	67-125	4	30
1,1-Dichloroethane	8.89	10.0	89	8.53	10.0	85	68-132	4	30
Vinyl Acetate	40.3	50.0	81	38.2	50.0	76	44-156	5	30
cis-1,2-Dichloroethene	8.28	10.0	83	8.00	10.0	80	71-118	3	30
2-Butanone (MEK)	44.0	50.0	88	44.6	50.0	89	71-149	1	30
Bromochloromethane	9.61	10.0	96	9.40	10.0	94	75-131	2	30
Chloroform	8.91	10.0	89	8.68	10.0	87	70-129	3	30
1,1,1-Trichloroethane (TCA)	8.08	10.0	81	7.87	10.0	79	59-136	3	30
Carbon Tetrachloride	7.81	10.0	78	7.86	10.0	79	55-140	1	30
Benzene	8.34	10.0	83	8.10	10.0	81	69-124	3	30
1,2-Dichloroethane (EDC)	9.80	10.0	98	9.65	10.0	97	56-142	2	30
Trichloroethene (TCE)	8.35	10.0	84	7.97	10.0	80	67-128	5	30
1,2-Dichloropropane	8.23	10.0	82	8.11	10.0	81	67-126	1	30
Dibromomethane	8.64	10.0	86	8.44	10.0	84	69-128	2	30
Bromodichloromethane	7.69	10.0	77	7.67	10.0	77	63-129	0	30
cis-1,3-Dichloropropene	7.72	10.0	77	7.59	10.0	76	62-132	2	30
4-Methyl-2-pentanone (MIBK)	43.6	50.0	87	42.8	50.0	86	64-134	2	30
Toluene	8.35	10.0	84	8.12	10.0	81	69-124	3	30
trans-1,3-Dichloropropene	6.57	10.0	66	6.73	10.0	67	59-125	2	30
1,1,2-Trichloroethane	8.05	10.0	81	8.15	10.0	82	74-118	1	30
Tetrachloroethene (PCE)	8.56	10.0	86	8.73	10.0	87	62-126	2	30
2-Hexanone	42.4	50.0	85	42.0	50.0	84	59-131	1	30
Dibromochloromethane	7.36	10.0	74	7.54	10.0	75	67-126	2	30

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Extracted: 06/12/2012
Date Analyzed: 06/12/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206333

Analyte Name	Lab Control Sample KWG1206333-3 Lab Control Spike			Duplicate Lab Control Sample KWG1206333-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	8.53	10.0	85	8.49	10.0	85	74-118	0	30
Chlorobenzene	8.47	10.0	85	8.47	10.0	85	72-116	0	30
Ethylbenzene	7.95	10.0	80	8.03	10.0	80	67-121	1	30
1,1,1,2-Tetrachloroethane	7.89	10.0	79	7.83	10.0	78	66-124	1	30
m,p-Xylenes	16.4	20.0	82	16.5	20.0	82	69-121	1	30
o-Xylene	8.05	10.0	81	8.17	10.0	82	71-119	1	30
Styrene	8.87	10.0	89	8.66	10.0	87	74-121	2	30
Bromoform	6.48	10.0	65	6.72	10.0	67	52-144	4	30
cis-1,4-Dichloro-2-butene	22.0	30.0	73	22.1	30.0	74	26-171	0	30
1,1,2,2-Tetrachloroethane	8.03	10.0	80	7.61	10.0	76	70-127	5	30
trans-1,4-Dichloro-2-butene	24.6	30.0	82	24.1	30.0	80	46-170	2	30
1,2,3-Trichloropropane	9.18	10.0	92	8.91	10.0	89	69-123	3	30
1,4-Dichlorobenzene	8.60	10.0	86	8.38	10.0	84	73-115	3	30
1,2-Dichlorobenzene	8.47	10.0	85	8.29	10.0	83	72-115	2	30
1,2-Dibromo-3-chloropropane	6.56	10.0	66	7.30	10.0	73	55-132	11	30

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/13/2012

Lab Control Spike/Duplicate Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206404

Analyte Name	Lab Control Sample KWG1206404-3 Lab Control Spike			Duplicate Lab Control Sample KWG1206404-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Dichlorodifluoromethane	11.1	10.0	111	10.9	10.0	109	32-124	1	30
Chloromethane	9.24	10.0	92	8.86	10.0	89	34-130	4	30
Vinyl Chloride	8.63	10.0	86	8.39	10.0	84	55-123	3	30
Bromomethane	7.90	10.0	79	7.59	10.0	76	35-113	4	30
Chloroethane	9.50	10.0	95	9.55	10.0	96	58-134	1	30
Trichlorofluoromethane	8.96	10.0	90	9.00	10.0	90	52-141	0	30
1,1-Dichloroethene	11.3	10.0	113	11.1	10.0	111	66-129	2	30
Acetone	65.9	50.0	132	67.3	50.0	135	68-135	2	30
Iodomethane	45.0	30.0	150	43.9	30.0	146	51-164	2	30
Carbon Disulfide	13.5	20.0	67	13.3	20.0	67	46-144	1	30
Methylene Chloride	9.70	10.0	97	9.60	10.0	96	71-122	1	30
Acrylonitrile	36.4	40.0	91	39.1	40.0	98	65-129	7	30
trans-1,2-Dichloroethene	9.38	10.0	94	9.60	10.0	96	67-125	2	30
1,1-Dichloroethane	9.53	10.0	95	9.43	10.0	94	68-132	1	30
Vinyl Acetate	40.6	50.0	81	41.6	50.0	83	44-156	3	30
cis-1,2-Dichloroethene	9.12	10.0	91	9.03	10.0	90	71-118	1	30
2-Butanone (MEK)	49.5	50.0	99	49.1	50.0	98	71-149	1	30
Bromochloromethane	10.2	10.0	102	10.6	10.0	106	75-131	4	30
Chloroform	9.55	10.0	96	9.66	10.0	97	70-129	1	30
1,1,1-Trichloroethane (TCA)	8.89	10.0	89	8.87	10.0	89	59-136	0	30
Carbon Tetrachloride	8.78	10.0	88	8.79	10.0	88	55-140	0	30
Benzene	8.94	10.0	89	9.02	10.0	90	69-124	1	30
1,2-Dichloroethane (EDC)	10.6	10.0	106	10.7	10.0	107	56-142	0	30
Trichloroethene (TCE)	9.00	10.0	90	9.00	10.0	90	67-128	0	30
1,2-Dichloropropane	8.70	10.0	87	8.82	10.0	88	67-126	1	30
Dibromomethane	9.04	10.0	90	9.43	10.0	94	69-128	4	30
Bromodichloromethane	8.32	10.0	83	8.34	10.0	83	63-129	0	30
cis-1,3-Dichloropropene	8.29	10.0	83	8.21	10.0	82	62-132	1	30
4-Methyl-2-pentanone (MIBK)	43.9	50.0	88	46.6	50.0	93	64-134	6	30
Toluene	9.00	10.0	90	9.14	10.0	91	69-124	2	30
trans-1,3-Dichloropropene	7.05	10.0	71	7.18	10.0	72	59-125	2	30
1,1,2-Trichloroethane	8.46	10.0	85	8.81	10.0	88	74-118	4	30
Tetrachloroethene (PCE)	9.50	10.0	95	9.61	10.0	96	62-126	1	30
2-Hexanone	44.3	50.0	89	46.9	50.0	94	59-131	6	30
Dibromochloromethane	7.70	10.0	77	8.02	10.0	80	67-126	4	30

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/13/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206404

Analyte Name	Lab Control Sample KWG1206404-3 Lab Control Spike			Duplicate Lab Control Sample KWG1206404-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
1,2-Dibromoethane (EDB)	8.87	10.0	89	9.25	10.0	93	74-118	4	30
Chlorobenzene	9.13	10.0	91	9.16	10.0	92	72-116	0	30
Ethylbenzene	8.58	10.0	86	8.70	10.0	87	67-121	1	30
1,1,1,2-Tetrachloroethane	8.60	10.0	86	8.72	10.0	87	66-124	1	30
m,p-Xylenes	18.1	20.0	90	17.9	20.0	90	69-121	1	30
o-Xylene	8.77	10.0	88	8.77	10.0	88	71-119	0	30
Styrene	9.06	10.0	91	9.43	10.0	94	74-121	4	30
Bromoform	6.84	10.0	68	7.00	10.0	70	52-144	2	30
cis-1,4-Dichloro-2-butene	20.6	30.0	69	21.7	30.0	72	26-171	5	30
1,1,2,2-Tetrachloroethane	8.01	10.0	80	8.54	10.0	85	70-127	6	30
trans-1,4-Dichloro-2-butene	24.3	30.0	81	25.1	30.0	84	46-170	3	30
1,2,3-Trichloropropane	9.41	10.0	94	9.85	10.0	99	69-123	5	30
1,4-Dichlorobenzene	9.37	10.0	94	9.25	10.0	93	73-115	1	30
1,2-Dichlorobenzene	9.16	10.0	92	9.18	10.0	92	72-115	0	30
1,2-Dibromo-3-chloropropane	6.94	10.0	69	7.11	10.0	71	55-132	2	30

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.

Volatile Organic Compounds

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-11
Lab Code: K1205452-001
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	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	77-123	06/18/12	Acceptable
Toluene-d8	116	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	85	46-118	06/18/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-21D **Units:** ng/L
Lab Code: K1205452-002 **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	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	77-123	06/18/12	Acceptable
Toluene-d8	116	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-21S
Lab Code: K1205452-003
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	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	77-123	06/18/12	Acceptable
Toluene-d8	116	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-22D
Lab Code: K1205452-004
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	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	105	77-123	06/18/12	Acceptable
Toluene-d8	116	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-22S
Lab Code: K1205452-005
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	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	77-123	06/18/12	Acceptable
Toluene-d8	116	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/05/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-9
Lab Code: K1205452-006
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	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	77-123	06/18/12	Acceptable
Toluene-d8	116	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	85	46-118	06/18/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/05/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-10
Lab Code: K1205452-007
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	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	06/18/12	Acceptable
Toluene-d8	116	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	85	46-118	06/18/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/05/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: MW-5
Lab Code: K1205452-008
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	ND	U	20	1	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	106	77-123	06/18/12	Acceptable
Toluene-d8	116	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/05/2012
Date Received: 06/07/2012

Volatile Organic Compounds

Sample Name: TB
Lab Code: K1205452-009
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	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	104	77-123	06/18/12	Acceptable
Toluene-d8	116	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	85	46-118	06/18/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206585-4
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	06/18/12	06/18/12	KWG1206585	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	103	77-123	06/18/12	Acceptable
Toluene-d8	117	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/18/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452

**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-11	K1205452-001	105	116 *	85
MW-21D	K1205452-002	106	116 *	84
MW-21S	K1205452-003	106	116 *	84
MW-22D	K1205452-004	105	116 *	84
MW-22S	K1205452-005	106	116 *	84
MW-9	K1205452-006	106	116 *	85
MW-10	K1205452-007	108	116 *	85
MW-5	K1205452-008	106	116 *	84
TB	K1205452-009	104	116 *	85
Method Blank	KWG1206585-4	103	117 *	84
MW-11MS	KWG1206585-1	104	118 *	90
MW-11DMS	KWG1206585-2	104	118 *	90
Lab Control Sample	KWG1206585-3	105	118 *	90

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 Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/18/2012
Date Analyzed: 06/18/2012

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1206585

Analyte Name	Sample Result	MW-11MS KWG1206585-1 Matrix Spike			MW-11DMS KWG1206585-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	1830	2000	92	1710	2000	85	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: Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/18/2012
Date Analyzed: 06/18/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1206585

Analyte Name	Lab Control Sample KWG1206585-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Vinyl Chloride	2310	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.

Semi-Volatile Organic Compounds

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Phenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2-Chlorophenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Benzyl alcohol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2-Methylphenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Hexachloroethane	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
4-Methylphenol†	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Nitrobenzene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Isophorone	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2-Nitrophenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2,4-Dimethylphenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2,4-Dichlorophenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Naphthalene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
4-Chloroaniline	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobutadiene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
4-Chloro-3-methylphenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2-Methylnaphthalene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2,4,6-Trichlorophenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2-Chloronaphthalene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2-Nitroaniline	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Acenaphthylene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Dimethyl Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2,6-Dinitrotoluene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Acenaphthene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
3-Nitroaniline	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Dibenzofuran	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitrophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrotoluene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
2,3,4,6-Tetrachlorophenol	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Fluorene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
4-Chlorophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Diethyl Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
4-Nitroaniline	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
2-Methyl-4,6-dinitrophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodiphenylamine	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
4-Bromophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobenzene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Pentachlorophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Phenanthrene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Anthracene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Di-n-butyl Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Fluoranthene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Pyrene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Butyl Benzyl Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
3,3'-Dichlorobenzidine	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Benz(a)anthracene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Chrysene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Bis(2-ethylhexyl) Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Di-n-octyl Phthalate	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Benzo(b)fluoranthene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Benzo(k)fluoranthene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Benzo(a)pyrene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Dibenz(a,h)anthracene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
Benzo(g,h,i)perylene	ND	U	9.5	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosomethylethylamine	ND	U	24	1	06/13/12	07/02/12	KWG1206395	*
Methyl Methanesulfonate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodiethylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Ethyl Methanesulfonate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acetophenone	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND	U	48	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND	U	24	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	95	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	19	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: 06/06/2012
Date Received: 06/07/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
3-Methylcholanthrene	ND U	9.5	1	06/13/12	07/02/12	KWG1206395	
Famphur	ND U	9.5	1	06/13/12	07/02/12	KWG1206395	
Kepone	ND U	95	1	06/13/12	07/02/12	KWG1206395	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	87	39-103	06/28/12	Acceptable
Phenol-d6	83	38-107	06/28/12	Acceptable
Nitrobenzene-d5	85	46-115	06/28/12	Acceptable
2-Fluorobiphenyl	88	48-114	06/28/12	Acceptable
2,4,6-Tribromophenol	85	46-127	06/28/12	Acceptable
Terphenyl-d14	107	32-149	06/28/12	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.
 Diphenylamine This compound can not be separated from N-Nitrosodiphenylamine.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1206395-9
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Phenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Chlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzyl alcohol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Methylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachloroethane	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Methylphenol†	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Nitrobenzene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Isophorone	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Nitrophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4-Dimethylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4-Dichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Naphthalene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chloroaniline	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachlorobutadiene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chloro-3-methylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Methylnaphthalene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4,6-Trichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Chloronaphthalene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Acenaphthylene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Dimethyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,6-Dinitrotoluene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Acenaphthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
3-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2,4-Dinitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Dibenzofuran	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1206395-9
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2,4-Dinitrotoluene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,3,4,6-Tetrachlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Fluorene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chlorophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Diethyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2-Methyl-4,6-dinitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosodiphenylamine	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Bromophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachlorobenzene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Pentachlorophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Phenanthrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Anthracene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Di-n-butyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Butyl Benzyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
3,3'-Dichlorobenzidine	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Benz(a)anthracene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Chrysene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-ethylhexyl) Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Di-n-octyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(b)fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(k)fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(a)pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Dibenz(a,h)anthracene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(g,h,i)perylene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosomethylethylamine	ND	U	24	1	06/13/12	07/02/12	KWG1206395	*
Methyl Methanesulfonate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodiethylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Ethyl Methanesulfonate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1206395-9
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acetophenone	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND	U	48	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND	U	24	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	95	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	19	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Results

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

Service Request: K1205452
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1206395-9
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
3-Methylcholanthrene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Famphur	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Keponc	ND	U	95	1	06/13/12	07/02/12	KWG1206395	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	85	39-103	06/27/12	Acceptable
Phenol-d6	81	38-107	06/27/12	Acceptable
Nitrobenzene-d5	83	46-115	06/27/12	Acceptable
2-Fluorobiphenyl	82	48-114	06/27/12	Acceptable
2,4,6-Tribromophenol	78	46-127	06/27/12	Acceptable
Terphenyl-d14	102	32-149	06/27/12	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.
 Diphenylamine This compound can not be separated from N-Nitrosodiphenylamine.

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452

Surrogate Recovery Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>	<u>Sur5</u>	<u>Sur6</u>
MW-11	K1205452-001	87	83	85	88	85	107
Method Blank	KWG1206395-9	85	81	83	82	78	102
MW-11MS	KWG1206395-1	76	73	79	83	91	101
MW-11DMS	KWG1206395-2	75	79	83	82	92	96
Lab Control Sample	KWG1206395-3	79	78	86	82	89	93
Duplicate Lab Control Sample	KWG1206395-4	80	78	87	81	90	98
Lab Control Sample	KWG1206395-5	83	83	85	83	93	95
Duplicate Lab Control Sample	KWG1206395-6	83	81	85	81	95	93
Lab Control Sample	KWG1206395-7	79	75	79	74	75	108
Duplicate Lab Control Sample	KWG1206395-8	86	83	81	83	84	105

Surrogate Recovery Control Limits (%)

Sur1 = 2-Fluorophenol	39-103	Sur5 = 2,4,6-Tribromophenol	46-127
Sur2 = Phenol-d6	38-107	Sur6 = Terphenyl-d14	32-149
Sur3 = Nitrobenzene-d5	46-115		
Sur4 = 2-Fluorobiphenyl	48-114		

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 Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/28/2012

Matrix Spike/Duplicate Matrix Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-11
Lab Code: K1205452-001
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Sample Result	MW-11MS KWG1206395-1 Matrix Spike			MW-11DMS KWG1206395-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Phenol	ND	72.9	96.2	76	75.6	96.2	79	10-147	4	30
2-Chlorophenol	ND	76.1	96.2	79	72.9	96.2	76	43-103	4	30
Hexachloroethane	ND	65.6	96.2	68	69.9	96.2	73	37-93	6	30
N-Nitrosodi-n-propylamine	ND	77.4	96.2	81	72.7	96.2	76	46-112	6	30
4-Chloro-3-methylphenol	ND	83.6	96.2	87	82.8	96.2	86	32-124	1	30
2-Chloronaphthalene	ND	82.3	96.2	86	80.8	96.2	84	40-108	2	30
Acenaphthene	ND	88.9	96.2	92	81.6	96.2	85	37-119	9	30
4-Nitrophenol	ND	89.6	96.2	93	90.3	96.2	94	42-137	1	30
2,4-Dinitrotoluene	ND	94.3	96.2	98	97.6	96.2	101	54-119	3	30
Diethyl Phthalate	ND	87.8	96.2	91	87.0	96.2	90	44-132	1	30
4-Bromophenyl Phenyl Ether	ND	91.0	96.2	95	86.8	96.2	90	28-133	5	30
Pentachlorophenol	ND	88.1	96.2	92	83.8	96.2	87	43-132	5	30
Pyrene	ND	87.5	96.2	91	82.8	96.2	86	19-138	5	30
Benzo(a)pyrene	ND	91.5	96.2	95	85.4	96.2	89	24-131	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: Sudbury Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/27/2012

Lab Control Spike/Duplicate Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Lab Control Sample KWG1206395-3 Lab Control Spike			Duplicate Lab Control Sample KWG1206395-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
N-Nitrosodimethylamine	78.1	100	78	80.2	100	80	53-109	3	30
Bis(2-chloroethyl) Ether	80.5	100	80	77.5	100	78	56-104	4	30
Phenol	78.3	100	78	75.4	100	75	52-104	4	30
2-Chlorophenol	80.1	100	80	77.5	100	77	59-101	3	30
Benzyl alcohol	79.6	100	80	79.8	100	80	53-111	0	30
Bis(2-chloroisopropyl) Ether	79.2	100	79	76.1	100	76	53-105	4	30
2-Methylphenol	82.5	100	83	80.1	100	80	51-108	3	30
Hexachloroethane	69.8	100	70	72.3	100	72	50-100	4	30
N-Nitrosodi-n-propylamine	80.0	100	80	78.3	100	78	56-112	2	30
4-Methylphenol	80.7	100	81	81.4	100	81	47-118	1	30
Nitrobenzene	82.1	100	82	79.9	100	80	56-108	3	30
Isophorone	79.2	100	79	83.1	100	83	57-106	5	30
2-Nitrophenol	81.8	100	82	85.7	100	86	58-108	5	30
2,4-Dimethylphenol	69.8	100	70	71.6	100	72	32-100	3	30
Bis(2-chloroethoxy)methane	77.7	100	78	81.2	100	81	57-108	4	30
2,4-Dichlorophenol	83.2	100	83	84.5	100	84	59-107	2	30
Naphthalene	74.2	100	74	78.0	100	78	60-98	5	30
4-Chloroaniline	82.1	100	82	84.9	100	85	57-111	3	30
Hexachlorobutadiene	72.7	100	73	72.2	100	72	47-106	1	30
4-Chloro-3-methylphenol	84.7	100	85	85.8	100	86	65-111	1	30
2-Methylnaphthalene	78.1	100	78	80.2	100	80	57-106	3	30
Hexachlorocyclopentadiene	34.6	100	35	37.1	100	37	10-60	7	30
2,4,6-Trichlorophenol	81.3	100	81	84.1	100	84	63-117	3	30
2,4,5-Trichlorophenol	85.9	100	86	86.4	100	86	62-117	1	30
2-Chloronaphthalene	78.8	100	79	79.4	100	79	54-107	1	30
2-Nitroaniline	84.5	100	85	86.1	100	86	62-117	2	30
Acenaphthylene	80.0	100	80	78.4	100	78	58-109	2	30
Dimethyl Phthalate	87.1	100	87	85.6	100	86	64-119	2	30
2,6-Dinitrotoluene	85.7	100	86	83.4	100	83	65-122	3	30
Acenaphthene	80.9	100	81	82.9	100	83	61-110	2	30
3-Nitroaniline	82.5	100	82	88.6	100	89	63-120	7	30
2,4-Dinitrophenol	79.2	100	79	83.5	100	83	33-126	5	30
Dibenzofuran	82.5	100	82	81.5	100	81	62-112	1	30
4-Nitrophenol	85.1	100	85	86.6	100	87	40-138	2	30
2,4-Dinitrotoluene	82.9	100	83	89.4	100	89	61-126	7	30

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 Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 06/27/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Lab Control Sample KWG1206395-3 Lab Control Spike			Duplicate Lab Control Sample KWG1206395-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
2,3,4,6-Tetrachlorophenol	86.1	100	86	85.4	100	85	56-124	1	30
Fluorene	79.3	100	79	82.6	100	83	59-112	4	30
4-Chlorophenyl Phenyl Ether	84.8	100	85	85.2	100	85	59-113	1	30
Diethyl Phthalate	81.4	100	81	84.2	100	84	55-119	3	30
4-Nitroaniline	86.2	100	86	87.5	100	88	53-127	2	30
2-Methyl-4,6-dinitrophenol	87.4	100	87	87.8	100	88	51-127	0	30
N-Nitrosodiphenylamine	83.0	100	83	81.4	100	81	58-121	2	30
4-Bromophenyl Phenyl Ether	87.5	100	87	88.8	100	89	64-118	2	30
Hexachlorobenzene	82.8	100	83	90.5	100	90	63-117	9	30
Pentachlorophenol	84.9	100	85	85.9	100	86	51-123	1	30
Phenanthrene	79.5	100	79	86.6	100	87	64-111	9	30
Anthracene	84.1	100	84	84.3	100	84	62-116	0	30
Di-n-butyl Phthalate	85.7	100	86	82.7	100	83	65-126	4	30
Fluoranthene	80.2	100	80	83.8	100	84	52-128	4	30
Pyrene	80.8	100	81	82.1	100	82	53-124	2	30
Butyl Benzyl Phthalate	86.4	100	86	91.0	100	91	64-121	5	30
3,3'-Dichlorobenzidine	80.7	100	81	80.5	100	80	43-116	0	30
Benz(a)anthracene	88.1	100	88	87.8	100	88	69-113	0	30
Chrysene	84.3	100	84	87.3	100	87	68-114	4	30
Bis(2-ethylhexyl) Phthalate	92.7	100	93	93.0	100	93	64-122	0	30
Di-n-octyl Phthalate	87.6	100	88	87.8	100	88	60-131	0	30
Benzo(b)fluoranthene	88.4	100	88	89.9	100	90	66-117	2	30
Benzo(k)fluoranthene	85.3	100	85	90.9	100	91	63-119	6	30
Benzo(a)pyrene	88.8	100	89	88.1	100	88	57-124	1	30
Indeno(1,2,3-cd)pyrene	84.6	100	85	86.8	100	87	68-116	3	30
Dibenz(a,h)anthracene	87.4	100	87	86.1	100	86	65-121	2	30
Benzo(g,h,i)perylene	85.3	100	85	85.2	100	85	68-116	0	30

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 07/02/2012

Lab Control Spike/Duplicate Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Lab Control Sample KWG1206395-5 Lab Control Spike			Duplicate Lab Control Sample KWG1206395-6 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
N-Nitrosomethylethylamine	64.4	100	64 *	64.6	100	65 *	70-130	0	30
Methyl Methanesulfonate	62.7	100	63 *	64.8	100	65 *	70-130	3	30
N-Nitrosodiethylamine	66.2	100	66 *	66.2	100	66 *	70-130	0	30
Ethyl Methanesulfonate	65.4	100	65 *	65.5	100	65 *	70-130	0	30
Acetophenone	66.7	100	67 *	68.5	100	69 *	70-130	3	30
N-Nitrosopyrrolidine	59.2	100	59 *	59.6	100	60 *	70-130	1	30
o-Toluidine	66.7	100	67 *	66.4	100	66 *	70-130	0	30
N-Nitrosopiperidine	68.7	100	69 *	65.6	100	66 *	70-130	5	30
O,O,O-Triethyl Phosphorothioate	77.1	100	77	75.4	100	75	70-130	2	30
2,6-Dichlorophenol	77.5	100	78	74.3	100	74	70-130	4	30
Hexachloropropene	33.8	100	34 *	36.7	100	37 *	70-130	8	30
p-Phenylenediamine	7.28	100	7 *	10.2	100	10 *	70-130	34 *	30
N-Nitrosodi-n-butylamine	65.4	100	65 *	63.8	100	64 *	70-130	2	30
Safrole	72.6	100	73	66.1	100	66 *	70-130	9	30
1,2,4,5-Tetrachlorobenzene	66.3	100	66 *	62.4	100	62 *	70-130	6	30
Isosafrole	67.6	100	68 *	64.4	100	64 *	70-130	5	30
1,4-Naphthoquinone	122	100	122	116	100	116	70-130	5	30
1,3-Dinitrobenzene	85.8	100	86	84.4	100	84	70-130	2	30
Pentachlorobenzene	72.9	100	73	67.8	100	68 *	70-130	7	30
1-Naphthylamine	52.7	100	53 *	52.6	100	53 *	70-130	0	30
2-Naphthylamine	71.5	100	71	70.1	100	70	70-130	2	30
5-Nitro-o-toluidine	85.6	100	86	85.2	100	85	70-130	1	30
Thionazin	87.6	100	88	81.8	100	82	70-130	7	30
Diphenylamine	151	100	151 *	142	100	142 *	70-130	6	30
Phenacetin	76.3	100	76	78.6	100	79	70-130	3	30
Diallate	73.2	100	73	67.4	100	67 *	70-130	8	30
4-Aminobiphenyl	75.7	100	76	75.5	100	75	70-130	0	30
Pronamide	52.1	100	52 *	51.8	100	52 *	70-130	1	30
Pentachloronitrobenzene	76.6	100	77	72.0	100	72	70-130	6	30
Parathion	96.3	100	96	97.1	100	97	70-130	1	30
Methapyrilene	18.0	100	18 *	15.2	100	15 *	70-130	17	30
Isodrin	78.6	100	79	76.6	100	77	70-130	3	30
p-Dimethylaminoazobenzene	79.7	100	80	85.1	100	85	70-130	7	30
Chlorobenzilate	77.6	100	78	82.6	100	83	70-130	6	30
3,3'-Dimethylbenzidine	49.9	100	50 *	54.8	100	55 *	70-130	9	30

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 Road Landfill RI
Sample Matrix: Water

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 07/02/2012

Lab Control Spike/Duplicate Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Lab Control Sample KWG1206395-5 Lab Control Spike			Duplicate Lab Control Sample KWG1206395-6 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
2-Acetylaminofluorene	79.4	100	79	84.6	100	85	70-130	6	30
7,12-Dimethylbenz(a)anthracene	80.0	100	80	82.3	100	82	70-130	3	30
3-Methylcholanthrene	91.1	100	91	87.9	100	88	70-130	4	30

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.

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QA/QC Report

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

Service Request: K1205452
Date Extracted: 06/13/2012
Date Analyzed: 07/02/2012

Lab Control Spike/Duplicate Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Lab Control Sample KWG1206395-7 Lab Control Spike			Duplicate Lab Control Sample KWG1206395-8 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Famphur	82.8	100	83	88.7	100	89	70-130	7	30
Kepone	98.0	100	98	110	100	110	70-130	11	30

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.



July 3, 2012

Analytical Report for Service Request No: K1205520

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 June 08, 2012. For your reference, these analyses have been assigned our service request number K1205520.

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.

Ed Wallace
Project Manager

EW/ln

Page 1 of 194



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Part of the ALS Group A Campbell Brothers Limited Company

Environmental 

www.caslab.com ■ www.alsglobal.com

RIGHT SOLUTIONS FIGHT POLLUTION

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. - 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.pjllabs.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	704427-08-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.

Case Narrative

ALS ENVIRONMENTAL

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

Service Request No.: K1205520
Date Received: 6/8/12

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

Thirteen water samples and one trip blank were received for analysis at ALS Environmental on 6/8/12. Except as noted on the Cooler Receipt Form, 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

Chloride by EPA Method 300.0:

The control criteria for matrix spike recoveries of Chloride for sample MW-19 were not applicable. The analyte concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

Total Organic Carbon by Standard Method 5310 C:

The Relative Percent Difference (RPD) criterion for the replicate analysis of Total Organic Carbon in sample MW-14b was not applicable because the analyte concentration was not significantly greater than the Method Reporting Limit (MRL). Analytical values derived from measurements close to the detection limit are not subject to the same accuracy and precision criteria as results derived from measurements higher on the calibration range for the method.

Total and Dissolved Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recoveries of Calcium for the Batch QC samples were not applicable. The analyte concentration in the samples was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recoveries.

Organochlorine Pesticides by EPA Method 8081

No anomalies with the analysis of these samples were observed.

PCB Aroclors by EPA Method 8082

No anomalies with the analysis of these samples were observed.

Approved by _____ *EMW* Date 7/5/12

Organophosphorus Pesticides by EPA Method 8141

Sample Notes and Discussion:

Insufficient sample volume was received to perform a full list Matrix Spike/Matrix Spike Duplicate (MS/MSD). A Laboratory Control Sample/Duplicate Laboratory Control Sample (LCS/DLCS) was analyzed and reported in lieu of the MS/MSD for these samples.

Chlorophenoxy Herbicides by EPA Method 8151

No anomalies with the analysis of these samples were observed.

Volatile Organic Compounds by EPA Method 8260

Initial Calibration Exceptions:

The CAS minimum relative response factor criterion for Isobutyl Alcohol was not met in Initial Calibration (ICAL) ID 11549. In accordance with CAS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. No further corrective action was appropriate.

The CAS minimum relative response factor criterion for Acrylonitrile and Isobutyl Alcohol was not met in Initial Calibration (ICAL) ID 11549. In accordance with CAS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analytes of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analytes at the MRL on the day of analysis. No further corrective action was appropriate.

Calibration Verification Exceptions:

The following analytes were flagged as outside the lower control criterion for Continuing Calibration Verification (CCV) J:\MS18\0618F010D: Carbon Disulfide, 2,2-Dichloropropane, Bromoform, cis-1,4-Dichloro-2-butene, and 1,2-Dibromo-3-chloropropane. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

The following analytes were flagged as outside the upper control criterion for Continuing Calibration Verification (CCV) J:\MS18\0618F010D: Acetone and Iodomethane. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

The CAS minimum relative response factor criterion for Isobutyl Alcohol was not met in Continuing Calibration Verification (CCV) J:\MS18\0618F010.D. In accordance with CAS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analyte of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analyte at the MRL on the day of analysis. No further corrective action was appropriate.

The following analytes were flagged as outside the lower control criterion for Continuing Calibration Verification (CCV) J:\MS27\0619F007.D: 1,1-Dichloroethene and Iodomethane. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

The following analytes were flagged as outside the upper control criterion for Continuing Calibration Verification (CCV) J:\MS27\0619F007.D: Acetonitrile, 1,1,2,2,-Tetrachloroethane, and trans-1,4-Dichloro-2-butene. In accordance with the EPA Method, 80% or more of the CCV analytes must pass within 20% of the true value. The CAS SOP allows for 40% difference for the remaining analytes. The CCV met these criteria. The quality of the sample data was not significantly affected. No further corrective action was required.

Approved by EWJ Date 2/5/12

The CAS minimum relative response factor criterion for Acetonitrile and Isobutyl Alcohol was not met in Continuing Calibration Verification (CCV) J:\MS27\0619F007.D. In accordance with CAS standard operating procedures, a Method Reporting Limit (MRL) check standard containing the analytes of concern was analyzed each day of analysis. The MRL check standard verified instrument sensitivity was adequate to detect the analytes at the MRL on the day of analysis. No further corrective action was appropriate.

Volatile Organic Compounds by EPA Method 8260 SIM

Surrogate Exceptions:

The upper control criterion was exceeded for Toluene-d8 in all samples. Since the target analyte is not associated with the surrogate, the data quality was not significantly affected. No further corrective action was appropriate. No further corrective action was appropriate.

Semivolatile Organic Compounds by EPA Method 8270

Lab Control Sample Exceptions:

The recoveries of several analytes in the Lab Control Summary/Duplicate Lab Control Summary were outside the control limits listed in the results summary. The limits are default values temporarily in use until sufficient data points are generated to calculate statistical control limits. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

Relative Percent Difference Exceptions

The Relative Percent Difference (RPD) criterion for the replicate analysis of p-Phenylenediamine in the Lab Control Summary/Duplicate Lab Control Summary was not applicable because the analyte concentration was not significantly greater than the Method Reporting Limit (MRL). Analytical values derived from measurements close to the detection limit are not subject to the same accuracy and precision criteria as results derived from measurements higher on the calibration range for the method.

Approved by _____

EW Date 7/5/12

Chain of Custody

Columbia Analytical Services

1317 South 13th, Kelso, WA 98626

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

SR# 1619055880
PAGE 1 OF 2

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: _____

Sample ID.	Date	Time	LAB ID	Matrix
Schmidt	6-6-12	2:15		
Small	6-6-12	2:30		
Kinman	6/6/12	3:00		
MW-19	6/6/12	4:30		
MW-15	6/6/12	5:00		
D15	6/6/12	6:00		
MW-146	6/7/12	9:00		
MW-18	6/7/12	9:30		
MW-23	6/7/12	10:00		
MW-24	6/7/12	10:30		

URNAROUND REQUIREMENTS

24 hr _____ 48 hr _____ 5 day _____
 Standard (21 days)
 Provide FAX Preliminary Results
 Requested Report Date: _____

REPORT REQUIREMENTS
 I. Routine Report: Results, Method Blank, Surrogate, as required
 II. Report Dup., MS, MSD as required
 III. Data Validation Report (includes raw data)
 IV. CLP Deliverable Report
 V. EDD

RELINQUISHED BY:
 Signature: [Signature]
 Printed Name: Craig Schwyn
 Firm: Schwyn Environmental Services
 Date/Time: _____

RECEIVED BY:
 Signature: [Signature]
 Printed Name: Felix
 Firm: _____
 Date/Time: _____

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)]	Appendix III Parameters (see below)	MS/MSD	REMARKS
6	X	X				
6	X	X				
6	X	X				
10	X	X	X	X		
24	X	X	X	X		
24	X	X	X	X		
24	X	X	X	X		
10	X	X	X			
10	X	X	X			
10	X	X	X			

Appendix III Parameters
 Dissolved Metals: Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Se, Ag, Ti, Sn, V, and Zn by USEPA Method 6010C
 Total Metals: Ni, Hg by USEPA Method 6010C; and 7470A
 Organochlorine pesticides by USEPA Method 8081A
 PCBs (Aroclors) by USEPA Method 8082
 Organophosphorus compounds by USEPA Method 8141A
 Chlorinated herbicides by USEPA Method 8151A
 SVOCs USEPA Method 8270D
 Total cyanide by SM 4500 S2 D and Total sulfide by EPA 335.4

RELINQUISHED BY:
 Signature: _____
 Printed Name: _____
 Firm: _____
 Date/Time: _____

RECEIVED BY:
 Signature: [Signature]
 Printed Name: Paula Smith
 Firm: _____
 Date/Time: 6/8/12 0930



PC ed

Cooler Receipt and Preservation Form

Client / Project: Schwyn Service Request K12 5520
 Received: 6/8/12 Opened: 6/8/12 By: [Signature] Unloaded: 6/8/12 By: [Signature]

- 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
1	4.2	287			8036 9742 21063		
1	4	302			8036 9742 21090		
1	1.0	276			8036 9742 2085		
1	3.8	318			8728 2920 9299		

- 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
D15	1 of 3	500ml R				X	HNO3	1ml	K23022	[Signature]	1050

Notes, Discrepancies, & Resolutions: * Aliquoted 250ml unpreserved for MW-15, D-15, MW-14b for dissolved metals - Re-labelled these bottles for Total Metals ERM 6/11/12
 Received 6 vials each for Camp and C2 and 2-Trip blanks not on the COC. 6/6/12 1530 6/6/12 1530

General Chemistry Parameters

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: K1205520
Date Collected: 06/06/12 - 06/07/12
Date Received: 06/8/12
Units: mg/L
Basis: NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	129	4.0	20	06/08/12 13:12	
MW-15	K1205520-007	126	4.0	20	06/08/12 13:26	
D15	K1205520-008	127	4.0	20	06/08/12 13:39	
MW-14b	K1205520-009	143	4.0	20	06/08/12 13:53	
MW-18	K1205520-010	157	4.0	20	06/08/12 14:06	
MW-23	K1205520-011	124	4.0	20	06/08/12 14:20	
MW-24	K1205520-012	101	4.0	20	06/08/12 14:33	
MW-17	K1205520-013	141	4.0	20	06/08/12 14:47	
Method Blank	K1205520-MB1	ND U	0.20	1	06/08/12 07:09	

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: K1205520
Date Collected: 06/06/12
Date Received: 06/08/12
Date Analyzed: 06/08/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-19 **Units:** mg/L
Lab Code: K1205520-006 **Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1205520-006DUP10 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Chloride	300.0	4.0	129	130	130	<1	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205520
Date Collected: 06/06/12
Date Received: 06/08/12
Date Analyzed: 06/8/12

**Duplicate Matrix Spike Summary
Chloride**

Sample Name: MW-19 **Units:** mg/L
Lab Code: K1205520-006 **Basis:** NA
Analysis Method: 300.0

Analyte Name	Sample Result	Result	Matrix Spike K1205520-006MS3		Duplicate Matrix Spike K1205520-006DMS3		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	129	175	40.0	115 *	175	40.0	114 *	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: K1205520

Date Analyzed: 06/08/12

Lab Control Sample Summary
Chloride

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 295189

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205520-LCS3	4.72	5.00	94	90-110

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Analytical Report

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

Service Request: K1205520
Date Collected: 06/06/12 - 06/07/12
Date Received: 06/8/12
Units: mg/L
Basis: NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	9.1	1.0	20	06/08/12 13:12	
MW-15	K1205520-007	6.9	1.0	20	06/08/12 13:26	
D15	K1205520-008	6.9	1.0	20	06/08/12 13:39	
MW-14b	K1205520-009	8.3	1.0	20	06/08/12 13:53	
MW-18	K1205520-010	9.5	1.0	20	06/08/12 14:06	
MW-23	K1205520-011	10.2	1.0	20	06/08/12 14:20	
MW-24	K1205520-012	9.0	1.0	20	06/08/12 14:33	
MW-17	K1205520-013	10.1	1.0	20	06/08/12 14:47	
Method Blank	K1205520-MB1	ND U	0.050	1	06/08/12 07:09	

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: K1205520
Date Collected: 06/06/12
Date Received: 06/08/12
Date Analyzed: 06/08/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-19
Lab Code: K1205520-006

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1205520-006DUP10 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Nitrate as Nitrogen	300.0	1.0	9.1	9.2	9.16	2	20

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

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: K1205520
Date Collected: 06/06/12
Date Received: 06/08/12
Date Analyzed: 06/8/12

Duplicate Matrix Spike Summary
Nitrate as Nitrogen

Sample Name: MW-19
Lab Code: K1205520-006
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1205520-006MS3		Duplicate Matrix Spike K1205520-006DMS3			% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount	% Rec			
Nitrate as Nitrogen	9.1	50.6	40.0	104	50.2	40.0	103	90-110	<1	20

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

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

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: K1205520

Date Analyzed: 06/08/12

Lab Control Sample Summary
Nitrate as Nitrogen

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 295189

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205520-LCS3	18.1	17.7	102	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: K1205520
Date Collected: 06/06/12 - 06/07/12
Date Received: 06/8/12

Units: mg/L
Basis: NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	39.4	4.0	20	06/08/12 13:12	
MW-15	K1205520-007	37.9	4.0	20	06/08/12 13:26	
D15	K1205520-008	38.0	4.0	20	06/08/12 13:39	
MW-14b	K1205520-009	37.4	4.0	20	06/08/12 13:53	
MW-18	K1205520-010	32.8	4.0	20	06/08/12 14:06	
MW-23	K1205520-011	31.0	4.0	20	06/08/12 14:20	
MW-24	K1205520-012	29.6	4.0	20	06/08/12 14:33	
MW-17	K1205520-013	29.0	4.0	20	06/08/12 14:47	
Method Blank	K1205520-MB1	ND U	0.20	1	06/08/12 07:09	

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: K1205520
Date Collected: 06/06/12
Date Received: 06/08/12
Date Analyzed: 06/08/12

**Replicate Sample Summary
General Chemistry Parameters**

Sample Name: MW-19
Lab Code: K1205520-006

Units: mg/L
Basis: NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1205520-006DUP10 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Sulfate	300.0	4.0	39.4	39.8	39.6	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: K1205520
Date Collected: 06/06/12
Date Received: 06/08/12
Date Analyzed: 06/8/12

Duplicate Matrix Spike Summary
Sulfate

Sample Name: MW-19
Lab Code: K1205520-006
Analysis Method: 300.0

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1205520-006MS3		Duplicate Matrix Spike K1205520-006DMS3		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	39.4	81.2	40.0	104	81.7	40.0	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.

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: K1205520

Date Analyzed: 06/08/12

Lab Control Sample Summary
Sulfate

Analysis Method: 300.0

Units: mg/L

Basis: NA

Analysis Lot: 295189

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205520-LCS3	4.60	5.00	92	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: K1205520
Date Collected: 06/06/12 - 06/07/12
Date Received: 06/8/12
Units: mg/L
Basis: NA

Alkalinity as CaCO₃, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	332	9.0	1	06/13/12 20:53	
MW-15	K1205520-007	491	9.0	1	06/13/12 20:53	
D15	K1205520-008	484	9.0	1	06/13/12 20:53	
MW-14b	K1205520-009	280	9.0	1	06/13/12 20:53	
MW-18	K1205520-010	315	9.0	1	06/13/12 20:53	
MW-23	K1205520-011	281	9.0	1	06/13/12 20:53	
MW-24	K1205520-012	285	9.0	1	06/13/12 20:53	
MW-17	K1205520-013	299	9.0	1	06/13/12 20:53	
Method Blank	K1205520-MB1	ND U	9.0	1	06/13/12 20:53	
Method Blank	K1205520-MB2	ND U	9.0	1	06/13/12 20:53	

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 2320 B

Service Request: K1205520
Date Collected: NA
Date Received: NA
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
Batch QC	K1205411-033DUP1	9.0	91.1	94.6	92.9	4	20	06/13/12
Batch QC	K1205452-001DUP3	9.0	267	282	275	5	20	06/13/12
Batch QC	K1205477-004DUP8	9.0	92.1	96.6	94.4	5	20	06/13/12
Batch QC	K1205477-010DUP9	9.0	96.0	95.5	95.8	<1	20	06/13/12

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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: K1205520

Date Analyzed: 06/13/12

Lab Control Sample Summary
Alkalinity as CaCO₃, Total

Analysis Method: SM 2320 B

Units: mg/L

Basis: NA

Analysis Lot: 296181

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1205520-LCS3	65.8	64.9	101	94-106
Lab Control Sample	K1205520-LCS4	66.4	64.9	102	94-106

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 2540 C

Service Request: K1205520
Date Collected: 06/06/12 - 06/07/12
Date Received: 06/8/12
Units: mg/L
Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	745	10	1	06/13/12 00:00	
MW-15	K1205520-007	988	13	1	06/13/12 00:00	
D15	K1205520-008	953	13	1	06/13/12 00:00	
MW-14b	K1205520-009	711	13	1	06/13/12 00:00	
MW-18	K1205520-010	764	13	1	06/13/12 00:00	
MW-23	K1205520-011	736	13	1	06/13/12 00:00	
MW-24	K1205520-012	600	10	1	06/13/12 00:00	
MW-17	K1205520-013	669	10	1	06/13/12 00:00	
Method Blank	K1205520-MB1	ND U	5.0	1	06/13/12 00:00	
Method Blank	K1205520-MB2	ND U	5.0	1	06/13/12 00:00	

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: K1205520
Date Collected: 06/07/12
Date Received: 06/08/12
Date Analyzed: 06/13/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: MW-17 **Units:** mg/L
Lab Code: K1205520-013 **Basis:** NA

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>MRL</u>	<u>Sample Result</u>	<u>Duplicate Sample K1205520- 013DUP17 Result</u>	<u>Average</u>	<u>RPD</u>	<u>RPD Limit</u>
Solids, Total Dissolved	SM 2540 C	10	669	673	671	<1	10

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205520

Date Analyzed: 06/13/12

Lab Control Sample Summary
Solids, Total Dissolved

Analysis Method: SM 2540 C

Units: mg/L

Basis: NA

Analysis Lot: 296007

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205520-LCS3	1180	1240	95	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-CN- E
Prep Method: SM 4500-CN-C

Service Request: K1205520
Date Collected: 06/06/12 - 06/07/12
Date Received: 06/8/12
Units: mg/L
Basis: NA

Cyanide, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
MW-15	K1205520-007	ND U	0.010	1	06/19/12 17:53	6/19/12	
D15	K1205520-008	ND U	0.010	1	06/19/12 17:53	6/19/12	
MW-14b	K1205520-009	ND U	0.010	1	06/19/12 17:53	6/19/12	
Method Blank	K1205520-MBI	ND U	0.0047	1	06/19/12 17:53	6/19/12	

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: K1205520
Date Collected: NA
Date Received: NA
Date Analyzed: 06/19/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: Batch QC
Lab Code: K1205452-001

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205452-001DUP3 Result	Average	RPD	RPD Limit
Cyanide, Total	SM 4500-CN- E	0.010	ND	ND	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205520
Date Collected: N/A
Date Received: N/A
Date Analyzed: 06/19/12
Date Extracted: 06/19/12

**Duplicate Matrix Spike Summary
Cyanide, Total**

Sample Name: Batch QC
Lab Code: K1205452-001
Analysis Method: SM 4500-CN- E
Prep Method: SM 4500-CN-C

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike K1205452-001MS1		Result	Duplicate Matrix Spike K1205452-001DMS1		% Rec Limits	RPD	RPD Limit
			Spike Amount	% Rec		Spike Amount	% Rec			
Cyanide, Total	ND	0.094	0.100	94	0.097	0.100	97	23-148	3	20

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205520
Date Analyzed: 06/19/12
Date Extracted: 06/19/12

Lab Control Sample Summary
Cyanide, Total

Analysis Method: SM 4500-CN- E
Prep Method: SM 4500-CN-C

Units: mg/L
Basis: NA
Analysis Lot: 297025

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205520-LCS3	1.47	1.46	101	84-115

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 4500-NH3 E

Service Request: K1205520
Date Collected: 06/06/12 - 06/07/12
Date Received: 06/8/12
Units: mg/L
Basis: NA

Ammonia as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	ND U	0.050	1	06/11/12 08:30	
MW-15	K1205520-007	ND U	0.050	1	06/11/12 08:30	
D15	K1205520-008	ND U	0.050	1	06/11/12 08:30	
MW-14b	K1205520-009	ND U	0.050	1	06/11/12 08:30	
MW-18	K1205520-010	ND U	0.050	1	06/11/12 08:30	
MW-23	K1205520-011	ND U	0.050	1	06/11/12 08:30	
MW-24	K1205520-012	ND U	0.050	1	06/11/12 08:30	
MW-17	K1205520-013	ND U	0.050	1	06/11/12 08:30	
Method Blank	K1205520-MB1	ND U	0.050	1	06/11/12 08:30	
Method Blank	K1205520-MB2	ND U	0.050	1	06/11/12 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205520
Date Collected: NA
Date Received: NA
Units: mg/L
Basis: NA

Duplicate Sample Summary
Ammonia as Nitrogen

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1205452-001DUP3	0.050	0.051	ND	NC	NC	20	06/11/12
Batch QC	K1205587-001DUP21	0.050	ND	ND	NC	NC	20	06/11/12
Batch QC	K1205587-007DUP27	0.050	ND	ND	NC	NC	20	06/11/12

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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: K1205520
Date Collected: N/A
Date Received: N/A
Date Analyzed: 06/11/12

**Matrix Spike Summary
Ammonia as Nitrogen**

Sample Name: Batch QC
Lab Code: K1205452-001
Analysis Method: SM 4500-NH3 E

Units: mg/L
Basis: NA

**Matrix Spike
K1205452-001MS2**

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	0.051	10.2	10.0	101	80-115

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205520
Date Collected: N/A
Date Received: N/A
Date Analyzed: 06/11/12

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: Batch QC
Lab Code: K1205587-001
Analysis Method: SM 4500-NH3 E

Units: mg/L
Basis: NA

Matrix Spike
K1205587-001MS4

<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	9.83	10.0	98	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: K1205520
Date Collected: N/A
Date Received: N/A
Date Analyzed: 06/11/12

Matrix Spike Summary
Ammonia as Nitrogen

Sample Name: Batch QC
Lab Code: K1205587-007
Analysis Method: SM 4500-NH3 E

Units: mg/L
Basis: NA

Matrix Spike
K1205587-007MS5

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Ammonia as Nitrogen	ND	10.2	10.0	102	80-115

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205520

Date Analyzed: 06/11/12

Lab Control Sample Summary
Ammonia as Nitrogen

Analysis Method: SM 4500-NH3 E

Units: mg/L

Basis: NA

Analysis Lot: 295524

Sample Name	Lab Code	Result	Spike Amount	% Rec	% Rec Limits
Lab Control Sample	K1205520-LCS3	14.3	13.9	103	80-115
Lab Control Sample	K1205520-LCS4	13.6	13.9	98	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 4500-S2- D

Service Request: K1205520
Date Collected: 06/06/12 - 06/07/12
Date Received: 06/8/12

Units: mg/L
Basis: NA

Total Sulfide

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-15	K1205520-007	ND U	0.050	1	06/08/12 22:29	
D15	K1205520-008	ND U	0.050	1	06/08/12 22:29	
MW-14b	K1205520-009	ND U	0.050	1	06/08/12 22:29	
Method Blank	K1205520-MB1	ND U	0.050	1	06/08/12 22:29	

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: K1205520
Date Collected: NA
Date Received: NA
Date Analyzed: 06/08/12

Replicate Sample Summary
General Chemistry Parameters

Sample Name: Batch QC **Units:** mg/L
Lab Code: K1205452-001 **Basis:** NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample K1205452- 001DUP3 Result	Average	RPD	RPD Limit
Total Sulfide	SM 4500-S2- D	0.050	ND	ND	NC	NC	20

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205520
Date Collected: N/A
Date Received: N/A
Date Analyzed: 06/8/12

**Duplicate Matrix Spike Summary
 Total Sulfide**

Sample Name: Batch QC **Units:** mg/L
Lab Code: K1205452-001 **Basis:** NA
Analysis Method: SM 4500-S2- D

Analyte Name	Sample Result	Result	Matrix Spike K1205452-001MS1		Duplicate Matrix Spike K1205452-001DMS1		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Total Sulfide	ND	1.69	1.77	96	1.70	1.77	96	70-120	<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: K1205520

Date Analyzed: 06/08/12

Lab Control Sample Summary
Total Sulfide

Analysis Method: SM 4500-S2- D

Units: mg/L

Basis: NA

Analysis Lot: 295328

<u>Sample Name</u>	<u>Lab Code</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Lab Control Sample	K1205520-LCS3	1.63	1.77	92	89-106

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 5310 C

Service Request: K1205520
Date Collected: 06/06/12 - 06/07/12
Date Received: 06/8/12

Units: mg/L
Basis: NA

Carbon, Total Organic

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
MW-19	K1205520-006	0.71	0.50	1	06/13/12 10:00	
MW-15	K1205520-007	1.38	0.50	1	06/13/12 10:00	
D15	K1205520-008	1.29	0.50	1	06/13/12 10:00	
MW-14b	K1205520-009	0.65	0.50	1	06/13/12 10:00	
MW-18	K1205520-010	0.59	0.50	1	06/13/12 10:00	
MW-23	K1205520-011	0.73	0.50	1	06/13/12 10:00	
MW-24	K1205520-012	0.74	0.50	1	06/13/12 10:00	
MW-17	K1205520-013	0.75	0.50	1	06/13/12 10:00	
Method Blank	K1205520-MB1	ND U	0.50	1	06/13/12 10:00	
Method Blank	K1205520-MB2	ND U	0.50	1	06/13/12 10:00	
Method Blank	K1205520-MB3	ND U	0.50	1	06/18/12 18:17	
Method Blank	K1205520-MB4	ND U	0.50	1	06/18/12 18:17	

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
Analysis Method: SM 5310 C

Service Request: K1205520
Date Collected: 06/06/12 - 06/07/12
Date Received: 06/08/12
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-19	K1205520-006DUP10	0.50	0.71	0.78	0.744	9	10	06/13/12
MW-15	K1205520-007DUP11	0.50	1.38	1.41	1.39	2	10	06/13/12
D15	K1205520-008DUP12	0.50	1.29	1.34	1.32	4	10	06/13/12
MW-14b	K1205520-009DUP13	0.50	0.65	0.53	0.588	20 *	10	06/13/12
MW-18	K1205520-010DUP14	0.50	0.59	0.60	0.596	1	10	06/13/12
MW-23	K1205520-011DUP15	0.50	0.73	0.70	0.711	4	10	06/13/12
MW-24	K1205520-012DUP16	0.50	0.74	0.81	0.776	9	10	06/13/12
MW-17	K1205520-013DUP17	0.50	0.75	0.71	0.732	6	10	06/13/12

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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: K1205520
Date Collected: N/A
Date Received: N/A
Date Analyzed: 06/13/12

Matrix Spike Summary
Carbon, Total Organic

Sample Name: Batch QC
Lab Code: K1205452-001
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Matrix Spike
K1205452-001MS2

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Carbon, Total Organic	0.66	25.7	25.0	100	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: K1205520
Date Collected: N/A
Date Received: N/A
Date Analyzed: 06/13/12

Matrix Spike Summary
Carbon, Total Organic

Sample Name: Batch QC
Lab Code: K1205587-001
Analysis Method: SM 5310 C

Units: mg/L
Basis: NA

Matrix Spike
K1205587-001MS4

<u>Analyte Name</u>	<u>Sample Result</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Carbon, Total Organic	ND	25.7	25.0	103	83-117

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COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

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

Service Request: K1205520

Date Analyzed: 06/18/12

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method: SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 296664

Lab Control Sample
K1205520-LCS1

Duplicate Lab Control Sample
K1205520-DLCS1

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Carbon, Total Organic	22.1	22.7	97	21.9	22.7	96	83-117	1	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

Service Request: K1205520

Date Analyzed: 06/18/12

Duplicate Lab Control Sample Summary
General Chemistry Parameters

Analysis Method: SM 5310 C

Units: mg/L

Basis: NA

Analysis Lot: 296664

Lab Control Sample
K1205520-LCS2

Duplicate Lab Control Sample
K1205520-DLCS2

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Carbon, Total Organic	22.2	22.7	98	22.0	22.7	97	83-117	1	10

Metals

COLUMBIA ANALYTICAL SERVICES, INC.
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- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

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

Service Request: K1205520

<u>Sample Name:</u>	<u>Lab Code:</u>
<u>Batch QC1D</u>	<u>K1205452-001D</u>
<u>Batch QC2D</u>	<u>K1205452-001DISSD</u>
<u>Batch QC2S</u>	<u>K1205452-001DISSS</u>
<u>Batch QC1S</u>	<u>K1205452-001S</u>
<u>MW-19</u>	<u>K1205520-006DISS</u>
<u>MW-15</u>	<u>K1205520-007</u>
<u>MW-15</u>	<u>K1205520-007DISS</u>
<u>D15</u>	<u>K1205520-008</u>
<u>D15</u>	<u>K1205520-008DISS</u>
<u>MW-14b</u>	<u>K1205520-009</u>
<u>MW-14b</u>	<u>K1205520-009DISS</u>
<u>MW-18</u>	<u>K1205520-010DISS</u>
<u>MW-23</u>	<u>K1205520-011DISS</u>
<u>MW-24</u>	<u>K1205520-012DISS</u>
<u>MW-17</u>	<u>K1205520-013DISS</u>
<u>Method Blank</u>	<u>K1205520-MB</u>

Comments:

Approved By:



53

Date:



Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205520
Project No.: NA Date Collected: 06/06/12
Project Name: City of Walla Walla Sudbury Roa Date Received: 06/08/12
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-19 Lab Code: K1205520-006DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	128000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	22.5		
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	53400		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	9.8		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7710		
Sodium	6010C	200	1.0	06/11/12	06/20/12	21300		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1205520
Project No.: NA **Date Collected:** 06/06/12
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 06/08/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-15 **Lab Code:** K1205520-007

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Mercury	7470A	0.2	1.0	06/18/12	06/19/12	0.2	U	
Nickel	6010C	2.0	1.0	06/11/12	06/20/12	8.5		

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205520
Project No.: NA Date Collected: 06/06/12
Project Name: City of Walla Walla Sudbury Roa Date Received: 06/08/12
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-15 Lab Code: K1205520-007DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Antimony	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Arsenic	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Barium	6010C	2.0	1.0	06/11/12	06/20/12	180		
Beryllium	6010C	0.2	1.0	06/11/12	06/20/12	0.2	U	
Cadmium	6010C	0.5	1.0	06/11/12	06/20/12	0.5	U	
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	152000		
Chromium	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Cobalt	6010C	1.0	1.0	06/11/12	06/20/12	1.0	U	
Copper	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Lead	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	48500		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	36.3		
Potassium	6010C	400	1.0	06/11/12	06/20/12	8300		
Selenium	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Silver	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	
Sodium	6010C	200	1.0	06/11/12	06/20/12	54100		
Thallium	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Tin	6010C	10.0	1.0	06/11/12	06/20/12	10.0	U	
Vanadium	6010C	2.0	1.0	06/11/12	06/20/12	14.8		
Zinc	6010C	2.0	1.0	06/11/12	06/20/12	2.0	U	

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1205520
Project No.: NA **Date Collected:** 06/06/12
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 06/08/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: D15 **Lab Code:** K1205520-008

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Mercury	7470A	0.2	1.0	06/18/12	06/19/12	0.2	U	
Nickel	6010C	2.0	1.0	06/11/12	06/20/12	8.0		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1205520
Project No.: NA **Date Collected:** 06/07/12
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 06/08/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-14b **Lab Code:** K1205520-009

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Mercury	7470A	0.2	1.0	06/18/12	06/19/12	0.2	U	
Nickel	6010C	2.0	1.0	06/11/12	06/20/12	9.2		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services **Service Request:** K1205520
Project No.: NA **Date Collected:** 06/07/12
Project Name: City of Walla Walla Sudbury Roa **Date Received:** 06/08/12
Matrix: WATER **Units:** ug/L
Basis: NA

Sample Name: MW-18 **Lab Code:** K1205520-010DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	121000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	51200		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	17.5		
Potassium	6010C	400	1.0	06/11/12	06/20/12	8170		
Sodium	6010C	200	1.0	06/11/12	06/20/12	28400		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205520
Project No.: NA Date Collected: 06/07/12
Project Name: City of Walla Walla Sudbury Roa Date Received: 06/08/12
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-24 Lab Code: K1205520-012DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	100000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	41900		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	146		
Potassium	6010C	400	1.0	06/11/12	06/20/12	7540		
Sodium	6010C	200	1.0	06/11/12	06/20/12	25900		

Comments:

Metals

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INORGANIC ANALYSIS DATA PACKAGE

Client: Schwyn Environmental Services Service Request: K1205520
Project No.: NA Date Collected: 06/07/12
Project Name: City of Walla Walla Sudbury Roa Date Received: 06/08/12
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-17 Lab Code: K1205520-013DISS

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	6010C	50.0	1.0	06/11/12	06/20/12	113000		
Iron	6010C	20.0	1.0	06/11/12	06/20/12	20.0	U	
Magnesium	6010C	20.0	1.0	06/11/12	06/20/12	47700		
Manganese	6010C	5.0	1.0	06/11/12	06/20/12	64.9		
Potassium	6010C	400	1.0	06/11/12	06/20/12	8000		
Sodium	6010C	200	1.0	06/11/12	06/20/12	29100		

Comments:

Metals
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SPIKE SAMPLE RECOVERY

Client: Schwyn Environmental Services Service Request: K1205520
 Project No.: NA Units: UG/L
 Project Name: City of Walla Walla Sudbury Roa Basis: NA
 Matrix: WATER

Sample Name: Batch QC1S

Lab Code: K1205452-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	86 - 116	479		10.0	U	500.00	95.8		6010C
Arsenic	79 - 121	949		10.0	U	1000.00	94.9		6010C
Barium	80 - 124	2000		67.3		2000.00	96.6		6010C
Beryllium	87 - 114	48.8		0.2	U	50.00	97.6		6010C
Cadmium	75 - 125	47.2		0.5	U	50.00	94.4		6010C
Calcium		99000		90000		10000.00	90.0		6010C
Chromium	89 - 117	194		2.0	U	200.00	97.0		6010C
Cobalt	88 - 117	480		1.0	U	500.00	96.0		6010C
Copper	86 - 113	233		2.0	U	250.00	93.2		6010C
Iron	75 - 125	967		20.0	U	1000.00	96.7		6010C
Lead	75 - 125	493		10.0	U	500.00	98.6		6010C
Magnesium	75 - 125	45000		35400		10000.00	96.0		6010C
Manganese	84 - 121	480		5.0	U	500.00	96.0		6010C
Mercury	76 - 126	1.00		0.2	U	1.00	100.0		7470A
Potassium	75 - 125	17900		8020		10000.00	98.8		6010C
Selenium	82 - 119	913		20.0	U	1000.00	91.3		6010C
Silver	79 - 120	47.0		2.0	U	50.00	94.0		6010C
Sodium	75 - 125	46300		36500		10000.00	98.0		6010C
Thallium	75 - 125	1010		10.0	U	1000.00	101.0		6010C
Tin	75 - 125	10300		10.0	U	10000.00	103.0		6010C
Vanadium	89 - 115	518		13.7		500.00	100.9		6010C
Zinc	87 - 113	462		2.0	U	500.00	92.4		6010C

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

Metals
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SPIKE SAMPLE RECOVERY

Client: Schwyn Environmental Services Service Request: K1205520
 Project No.: NA Units: UG/L
 Project Name: City of Walla Walla Sudbury Roa Basis: NA
 Matrix: WATER

Sample Name: Batch QC2S

Lab Code: K1205452-001DISSS

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	86 - 116	474		10.0	U	500.00	94.8		6010C
Arsenic	79 - 121	952		10.0	U	1000.00	95.2		6010C
Barium	80 - 124	2010		66.9		2000.00	97.2		6010C
Beryllium	87 - 114	48.7		0.2	U	50.00	97.4		6010C
Cadmium	75 - 125	47.5		0.5	U	50.00	95.0		6010C
Calcium		98500		89400		10000.00	91.0		6010C
Chromium	89 - 117	196		2.0	U	200.00	98.0		6010C
Cobalt	88 - 117	480		1.0	U	500.00	96.0		6010C
Copper	86 - 113	231		2.0	U	250.00	92.4		6010C
Iron	75 - 125	963		20.0	U	1000.00	96.3		6010C
Lead	75 - 125	498		10.0	U	500.00	99.6		6010C
Magnesium	75 - 125	44400		35400		10000.00	90.0		6010C
Manganese	84 - 121	484		5.0	U	500.00	96.8		6010C
Potassium	75 - 125	17600		8010		10000.00	95.9		6010C
Selenium	82 - 119	919		20.0	U	1000.00	91.9		6010C
Silver	79 - 120	46.8		2.0	U	50.00	93.6		6010C
Sodium	75 - 125	45400		36700		10000.00	87.0		6010C
Thallium	75 - 125	1020		10.0	U	1000.00	102.0		6010C
Tin	75 - 125	10400		10.0	U	10000.00	104.0		6010C
Vanadium	89 - 115	521		14.2		500.00	101.4		6010C
Zinc	87 - 113	468		2.0	U	500.00	93.6		6010C

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

Metals
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DUPLICATES

Client: Schwyn Environmental Services Service Request: K1205520
 Project No.: NA Units: UG/L
 Project Name: City of Walla Walla Sudbury Roa Basis: NA
 Matrix: WATER

Sample Name: Batch QC1D

Lab Code: K1205452-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		10.0	U	10.0	U			6010C
Arsenic		10.0	U	10.0	U			6010C
Barium	20	67.3		67.1		0.3		6010C
Beryllium		0.2	U	0.2	U			6010C
Cadmium		0.5	U	0.5	U			6010C
Calcium	20	90000		89100		1.0		6010C
Chromium		2.0	U	2.0	U			6010C
Cobalt		1.0	U	1.0	U			6010C
Copper		2.0	U	2.0	U			6010C
Iron		20.0	U	20.0	U			6010C
Lead		10.0	U	10.0	U			6010C
Magnesium	20	35400		35600		0.6		6010C
Manganese		5.0	U	5.0	U			6010C
Mercury		0.2	U	0.2	U			7470A
Potassium	20	8020		8070		0.6		6010C
Selenium		20.0	U	20.0	U			6010C
Silver		2.0	U	2.0	U			6010C
Sodium	20	36500		36800		0.8		6010C
Thallium		10.0	U	10.0	U			6010C
Tin		10.0	U	10.0	U			6010C
Vanadium	20	13.7		13.4		2.2		6010C
Zinc		2.0	U	2.0	U			6010C

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

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

**Metals
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DUPLICATES**

Client: Schwyn Environmental Services Service Request: K1205520
 Project No.: NA Units: UG/L
 Project Name: City of Walla Walla Sudbury Roa Basis: NA
 Matrix: WATER

Sample Name: Batch QC2D

Lab Code: K1205452-001DISSD

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		10.0	U	10.0	U			6010C
Arsenic		10.0	U	10.0	U			6010C
Barium	20	66.9		66.2		1.1		6010C
Beryllium		0.2	U	0.2	U			6010C
Cadmium		0.5	U	0.5	U			6010C
Calcium	20	89400		88600		0.9		6010C
Chromium		2.0	U	2.0	U			6010C
Cobalt		1.0	U	1.0	U			6010C
Copper		2.0	U	2.0	U			6010C
Iron		20.0	U	20.0	U			6010C
Lead		10.0	U	10.0	U			6010C
Magnesium	20	35400		35100		0.9		6010C
Manganese		5.0	U	5.0	U			6010C
Potassium	20	8010		7910		1.3		6010C
Selenium		20.0	U	20.0	U			6010C
Silver		2.0	U	2.0	U			6010C
Sodium	20	36700		36300		1.1		6010C
Thallium		10.0	U	10.0	U			6010C
Tin		10.0	U	10.0	U			6010C
Vanadium	20	14.2		13.6		4.3		6010C
Zinc		2.0	U	2.0	U			6010C

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

Metals

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LABORATORY CONTROL SAMPLE

Client: Schwyn Environmental Services

Service Request: K1205520

Project No.: NA

Project Name: City of Walla Walla Sudbury Roa

Aqueous LCS Source: CAS MIXED

Solid LCS Source:

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Antimony	2500	2450	98.0					
Arsenic	2500	2400	96.0					
Barium	5000	4890	97.8					
Beryllium	125	123	98.4					
Cadmium	1250	1210	96.8					
Calcium	12500	12200	97.6					
Chromium	500	493	98.6					
Cobalt	1250	1240	99.2					
Copper	625	604	96.6					
Iron	2500	2380	95.2					
Lead	2500	2470	98.8					
Magnesium	12500	12200	97.6					
Manganese	1250	1240	99.2					
Mercury	5	5.16	103.2					
Potassium	12500	12300	98.4					
Selenium	2500	2370	94.8					
Silver	625	587	93.9					
Sodium	12500	12400	99.2					
Thallium	2500	2540	101.6					
Tin	10000	10000	100.0					
Vanadium	1250	1260	100.8					
Zinc	1250	1190	95.2					

Organochlorine Pesticides

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Organochlorine Pesticides

Sample Name: MW-15
Lab Code: K1205520-007
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Heptachlor	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Aldrin	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endrin	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDD	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND	U	0.50	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND	U	0.20	1	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	85	20-106	06/15/12	Acceptable
Decachlorobiphenyl	100	19-127	06/15/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Organochlorine Pesticides

Sample Name: D15
Lab Code: K1205520-008
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Heptachlor	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Aldrin	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endrin	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDD	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND	U	0.010	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND	U	0.50	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND	U	0.20	1	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	76	20-106	06/15/12	Acceptable
Decachlorobiphenyl	94	19-127	06/15/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Organochlorine Pesticides

Sample Name: MW-14b
Lab Code: K1205520-009
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Heptachlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Aldrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDD	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND	U	0.49	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND	U	0.20	1	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	75	20-106	06/15/12	Acceptable
Decachlorobiphenyl	91	19-127	06/15/12	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: K1205520
Date Collected: NA
Date Received: NA

Organochlorine Pesticides

Sample Name: Method Blank
Lab Code: KWG1206513-6
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
alpha-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
beta-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
gamma-BHC (Lindane)	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
delta-BHC	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Heptachlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Aldrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Heptachlor Epoxide	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan I	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Dieldrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDE	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endrin	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan II	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDD	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endrin Aldehyde	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Endosulfan Sulfate	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
4,4'-DDT	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Methoxychlor	ND	U	0.0098	1	06/13/12	06/15/12	KWG1206513	
Toxaphene	ND	U	0.49	1	06/13/12	06/15/12	KWG1206513	
Chlordane	ND	U	0.20	1	06/13/12	06/15/12	KWG1206513	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tetrachloro-m-xylene	74	20-106	06/15/12	Acceptable
Decachlorobiphenyl	91	19-127	06/15/12	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: K1205520

Surrogate Recovery Summary
Organochlorine Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: PERCENT
Level: Low

Table with 4 columns: Sample Name, Lab Code, Sur1, Sur2. Rows include Batch QC, MW-15, D15, MW-14b, Method Blank, Batch QCMS, Batch QCDMS, Lab Control Sample, and Duplicate Lab Control Sample.

Surrogate Recovery Control Limits (%)

Table with 2 columns: Surrogate Name, Control Limits. Rows: Sur1 = Tetrachloro-m-xylene (20-106), Sur2 = Decachlorobiphenyl (19-127).

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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/15/2012

**Matrix Spike/Duplicate Matrix Spike Summary
 Organochlorine Pesticides**

Sample Name: Batch QC
Lab Code: K1205452-001
Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206513

Analyte Name	Sample Result	Batch QCMS KWG1206513-1 Matrix Spike			Batch QCDMS KWG1206513-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
alpha-BHC	ND	0.174	0.196	89	0.179	0.196	91	31-123	3	30
beta-BHC	ND	0.164	0.196	83	0.169	0.196	86	31-118	3	30
gamma-BHC (Lindane)	ND	0.177	0.196	90	0.182	0.196	93	31-123	3	30
delta-BHC	ND	0.188	0.196	96	0.194	0.196	99	40-129	3	30
Heptachlor	ND	0.174	0.196	89	0.184	0.196	94	23-124	6	30
Aldrin	ND	0.133	0.196	68	0.150	0.196	76	18-111	12	30
Heptachlor Epoxide	ND	0.171	0.196	87	0.176	0.196	90	28-122	3	30
Endosulfan I	ND	0.139	0.196	71	0.145	0.196	74	17-118	4	30
Dieldrin	ND	0.171	0.196	87	0.176	0.196	90	32-121	3	30
4,4'-DDE	ND	0.166	0.196	85	0.173	0.196	88	24-129	4	30
Endrin	ND	0.173	0.196	88	0.186	0.196	95	34-133	8	30
Endosulfan II	ND	0.154	0.196	79	0.159	0.196	81	19-122	3	30
4,4'-DDD	ND	0.170	0.196	87	0.177	0.196	90	29-125	4	30
Endrin Aldehyde	ND	0.169	0.196	86	0.172	0.196	88	10-108	2	30
Endosulfan Sulfate	ND	0.172	0.196	88	0.176	0.196	90	30-120	2	30
4,4'-DDT	ND	0.184	0.196	94	0.190	0.196	97	28-139	3	30
Methoxychlor	ND	0.182	0.196	93	0.189	0.196	96	30-137	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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/15/2012

**Lab Control Spike Summary
 Organochlorine Pesticides**

Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206513

Lab Control Sample
 KWG1206513-3
 Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
alpha-BHC	0.178	0.200	89	36-122
beta-BHC	0.166	0.200	83	42-125
gamma-BHC (Lindane)	0.179	0.200	90	44-117
delta-BHC	0.191	0.200	96	48-123
Heptachlor	0.180	0.200	90	40-115
Aldrin	0.139	0.200	69	10-102
Heptachlor Epoxide	0.173	0.200	87	49-109
Endosulfan I	0.141	0.200	71	35-115
Dieldrin	0.173	0.200	86	50-115
4,4'-DDE	0.167	0.200	83	41-116
Endrin	0.180	0.200	90	48-126
Endosulfan II	0.154	0.200	77	28-128
4,4'-DDD	0.172	0.200	86	33-132
Endrin Aldehyde	0.157	0.200	78	27-104
Endosulfan Sulfate	0.169	0.200	84	38-118
4,4'-DDT	0.183	0.200	92	42-143
Methoxychlor	0.176	0.200	88	43-143

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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/15/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Organochlorine Pesticides**

Extraction Method: EPA 3535A
Analysis Method: 8081B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206513

Analyte Name	Lab Control Sample KWG1206513-4 Lab Control Spike			Duplicate Lab Control Sample KWG1206513-5 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Chlordane	2.22	2.00	111	1.91	2.00	96	45-148	15	30
Toxaphene	1.85	2.00	92	1.87	2.00	94	36-137	1	30

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.

Polychlorinated Biphenyls

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Polychlorinated Biphenyls (PCBs)

Sample Name: MW-15
Lab Code: K1205520-007
Extraction Method: EPA 3535A
Analysis Method: 8082A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1221	ND	U	0.40	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1232	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1242	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1248	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1254	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1260	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1262	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	111	36-113	06/17/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Polychlorinated Biphenyls (PCBs)

Sample Name: D15
Lab Code: K1205520-008
Extraction Method: EPA 3535A
Analysis Method: 8082A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1221	ND	U	0.40	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1232	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1242	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1248	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1254	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1260	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1262	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	104	36-113	06/17/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Polychlorinated Biphenyls (PCBs)

Sample Name: MW-14b
Lab Code: K1205520-009
Extraction Method: EPA 3535A
Analysis Method: 8082A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1221	ND	U	0.39	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1232	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1242	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1248	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1254	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1260	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1262	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	113	36-113	06/17/12	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: K1205520
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG1206512-4
Extraction Method: EPA 3535A
Analysis Method: 8082A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1221	ND	U	0.39	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1232	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1242	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1248	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1254	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1260	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	
Aroclor 1262	ND	U	0.20	1	06/13/12	06/17/12	KWG1206512	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	101	36-113	06/17/12	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: K1205520

**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3535A
Analysis Method: 8082A

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
Batch QC	K1205452-001	105
MW-15	K1205520-007	111
D15	K1205520-008	104
MW-14b	K1205520-009	113
Method Blank	KWG1206512-4	101
Batch QCMS	KWG1206512-1	98
Batch QCDMS	KWG1206512-2	102
Lab Control Sample	KWG1206512-3	91

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 36-113

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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/17/2012

**Matrix Spike/Duplicate Matrix Spike Summary
 Polychlorinated Biphenyls (PCBs)**

Sample Name: Batch QC
Lab Code: K1205452-001
Extraction Method: EPA 3535A
Analysis Method: 8082A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206512

Analyte Name	Sample Result	Batch QCMS KWG1206512-1 Matrix Spike			Batch QCDMS KWG1206512-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	ND	1.85	1.96	94	1.72	1.96	88	31-118	7	30
Aroclor 1260	ND	1.86	1.96	95	1.75	1.96	89	47-115	6	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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/17/2012

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3535A
Analysis Method: 8082A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206512

Lab Control Sample
KWG1206512-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Aroclor 1016	1.67	2.00	83	41-113
Aroclor 1260	1.74	2.00	87	47-117

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.

Organophosphorus Pesticides

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Organophosphorus Pesticides

Sample Name: MW-15
Lab Code: K1205520-007
Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phorate	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Sulfotep	ND	U	0.20	1	06/13/12	06/24/12	KWG1206535	
Disulfoton	ND	U	0.98	1	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	100	54-115	06/24/12	Acceptable
Triphenyl Phosphate	86	57-112	06/24/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Organophosphorus Pesticides

Sample Name: D15
Lab Code: K1205520-008
Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phorate	ND	U	0.50	1	06/13/12	06/24/12	KWG1206535	
Sulfotep	ND	U	0.20	1	06/13/12	06/24/12	KWG1206535	
Disulfoton	ND	U	0.99	1	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND	U	0.50	1	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND	U	0.50	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND	U	0.50	1	06/13/12	06/24/12	KWG1206535	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	99	54-115	06/24/12	Acceptable
Triphenyl Phosphate	93	57-112	06/24/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Organophosphorus Pesticides

Sample Name: MW-14b
Lab Code: K1205520-009
Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phorate	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Sulfotep	ND	U	0.20	1	06/13/12	06/24/12	KWG1206535	
Disulfoton	ND	U	0.98	1	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	105	54-115	06/24/12	Acceptable
Triphenyl Phosphate	96	57-112	06/24/12	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: K1205520
Date Collected: NA
Date Received: NA

Organophosphorus Pesticides

Sample Name: Method Blank
Lab Code: KWG1206535-6
Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Phorate	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Sulfotep	ND	U	0.20	1	06/13/12	06/24/12	KWG1206535	
Disulfoton	ND	U	0.98	1	06/13/12	06/24/12	KWG1206535	
Dimethoate	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Methyl Parathion	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	
Ethyl Parathion	ND	U	0.49	1	06/13/12	06/24/12	KWG1206535	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tributyl Phosphate	104	54-115	06/24/12	Acceptable
Triphenyl Phosphate	86	57-112	06/24/12	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: K1205520

Surrogate Recovery Summary
Organophosphorus Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>
Batch QC	K1205452-001	107	95
MW-15	K1205520-007	100	86
D15	K1205520-008	99	93
MW-14b	K1205520-009	105	96
Method Blank	KWG1206535-6	104	86
Batch QCMS	KWG1206535-1	102	85
Batch QCDMS	KWG1206535-2	98	89
Lab Control Sample	KWG1206535-3	98	81
Lab Control Sample	KWG1206535-4	102	86
Duplicate Lab Control Sample	KWG1206535-5	100	88

Surrogate Recovery Control Limits (%)

Sur1 = Tributyl Phosphate 54-115
Sur2 = Triphenyl Phosphate 57-112

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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/24/2012

**Matrix Spike/Duplicate Matrix Spike Summary
 Organophosphorus Pesticides**

Sample Name: Batch QC
Lab Code: K1205452-001
Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206535

Analyte Name	Sample Result	Batch QCMS KWG1206535-1 Matrix Spike			Batch QCDMS KWG1206535-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Sulfotep	ND	1.65	1.98	83	1.65	1.96	84	40-111	0	30
Methyl Parathion	ND	2.31	1.98	116	2.21	1.96	113	44-127	4	30
Ethyl Parathion	ND	1.91	1.98	96	1.90	1.96	97	46-127	0	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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/24/2012

Lab Control Spike Summary
Organophosphorus Pesticides

Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206535

Lab Control Sample
KWG1206535-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Sulfotep	1.57	2.00	78	40-111
Methyl Parathion	2.16*	2.00	108	44-127
Ethyl Parathion	1.74	2.00	87	46-127

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

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

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

Service Request: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/24/2012 -
 06/26/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Organophosphorus Pesticides**

Extraction Method: EPA 3535A
Analysis Method: 8141B

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206535

Analyte Name	Lab Control Sample KWG1206535-4 Lab Control Spike			Duplicate Lab Control Sample KWG1206535-5 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Phorate	2.05	2.00	102	1.97	2.00	98	29-128	4	30
Disulfoton	2.24	2.00	112 *	2.09	2.00	104	33-119	7	30
Dimethoate	1.90	2.00	95	2.00	2.00	100	35-132	5	30

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.

Chlorinated Herbicides

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Chlorinated Herbicides

Sample Name: MW-15
Lab Code: K1205520-007
Extraction Method: METHOD
Analysis Method: 8151A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-D	ND	U	0.42	1	06/13/12	06/22/12	KWG1206627	
2,4,5-TP (Silvex)	ND	U	0.21	1	06/13/12	06/22/12	KWG1206627	
2,4,5-T	ND	U	0.21	1	06/13/12	06/22/12	KWG1206627	
Dinoseb	ND	U	0.21	1	06/13/12	06/22/12	KWG1206627	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	75	17-113	06/22/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Chlorinated Herbicides

Sample Name: D15
Lab Code: K1205520-008
Extraction Method: METHOD
Analysis Method: 8151A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-D	ND	U	0.40	1	06/13/12	06/22/12	KWG1206627	
2,4,5-TP (Silvex)	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	
2,4,5-T	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	
Dinoseb	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	71	17-113	06/22/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Chlorinated Herbicides

Sample Name: MW-14b
Lab Code: K1205520-009
Extraction Method: METHOD
Analysis Method: 8151A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-D	ND	U	0.40	1	06/13/12	06/22/12	KWG1206627	
2,4,5-TP (Silvex)	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	
2,4,5-T	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	
Dinoseb	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	73	17-113	06/22/12	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: K1205520
Date Collected: NA
Date Received: NA

Chlorinated Herbicides

Sample Name: Method Blank
Lab Code: KWG1206627-6
Extraction Method: METHOD
Analysis Method: 8151A

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
2,4-D	ND	U	0.39	1	06/13/12	06/22/12	KWG1206627	
2,4,5-TP (Silvex)	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	
2,4,5-T	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	
Dinoseb	ND	U	0.20	1	06/13/12	06/22/12	KWG1206627	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	69	17-113	06/22/12	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: K1205520

Surrogate Recovery Summary
Chlorinated Herbicides

Extraction Method: METHOD
Analysis Method: 8151A

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
Batch QC	K1205452-001	71
MW-15	K1205520-007	75
D15	K1205520-008	71
MW-14b	K1205520-009	73
Batch QC	K1205521-001	74
Method Blank	KWG1206627-6	69
Batch QCMS	KWG1206627-1	68
Batch QCDMS	KWG1206627-2	66
Batch QCMS	KWG1206627-3	75
Batch QCDMS	KWG1206627-4	81
Lab Control Sample	KWG1206627-5	82

Surrogate Recovery Control Limits (%)

Sur1 = 2,4-Dichlorophenylacetic Acid 17-113

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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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/22/2012

Matrix Spike/Duplicate Matrix Spike Summary
Chlorinated Herbicides

Sample Name: Batch QC
Lab Code: K1205521-001
Extraction Method: METHOD
Analysis Method: 8151A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206627

Analyte Name	Sample Result	Batch QCMS KWG1206627-1 Matrix Spike			Batch QCDMS KWG1206627-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
2,4-D	ND	1.56	2.53	62	1.45	2.45	59	41-108	7	30
2,4,5-TP (Silvex)	ND	1.71	2.53	68	1.61	2.45	66	44-108	6	30
2,4,5-T	ND	1.70	2.53	67	1.58	2.45	65	31-106	7	30
Dinoseb	ND	1.40	2.53	55	1.35	2.45	55	44-81	3	30

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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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/22/2012

Matrix Spike/Duplicate Matrix Spike Summary
Chlorinated Herbicides

Sample Name: Batch QC
Lab Code: K1205452-001
Extraction Method: METHOD
Analysis Method: 8151A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206627

Analyte Name	Sample Result	Batch QCMS KWG1206627-3 Matrix Spike			Batch QCDMS KWG1206627-4 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
2,4-D	ND	1.57	2.43	65	1.64	2.40	68	41-108	4	30
2,4,5-TP (Silvex)	ND	1.72	2.43	71	1.79	2.40	75	44-108	5	30
2,4,5-T	ND	1.70	2.43	70	1.77	2.40	74	31-106	4	30
Dinoseb	ND	1.18	2.43	49	1.54	2.40	64	44-81	26	30

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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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/22/2012

**Lab Control Spike Summary
 Chlorinated Herbicides**

Extraction Method: METHOD
Analysis Method: 8151A

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206627

Lab Control Sample
 KWG1206627-5
 Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
2,4-D	1.68	2.50	67	35-110
2,4,5-TP (Silvex)	1.79	2.50	71*	37-114
2,4,5-T	1.80	2.50	72	30-120
Dinoseb	1.42	2.50	57	11-105

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.

Volatile Organic Compounds

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Camp
Lab Code: K1205520-001
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	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	0.86		0.50	1	06/18/12	06/18/12	KWG1206609	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Camp
Lab Code: K1205520-001
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	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	79	73-122	06/18/12	Acceptable
Toluene-d8	89	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	78	68-117	06/18/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: C2
Lab Code: K1205520-002
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	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	0.81		0.50	1	06/18/12	06/18/12	KWG1206609	

Comments:

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

Service Request: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: C2
Lab Code: K1205520-002
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	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	79	73-122	06/18/12	Acceptable
Toluene-d8	89	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	77	68-117	06/18/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Schmidt
Lab Code: K1205520-003
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	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Schmidt
Lab Code: K1205520-003
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	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	79	73-122	06/18/12	Acceptable
Toluene-d8	89	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	79	68-117	06/18/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Small
Lab Code: K1205520-004
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	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	1.4		0.50	1	06/18/12	06/18/12	KWG1206609	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Small
Lab Code: K1205520-004
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	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	80	73-122	06/18/12	Acceptable
Toluene-d8	90	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	78	68-117	06/18/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Kinman
Lab Code: K1205520-005
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	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Kinman
Lab Code: K1205520-005
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	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	80	73-122	06/18/12	Acceptable
Toluene-d8	89	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	76	68-117	06/18/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-19
Lab Code: K1205520-006
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	1.4		0.50	1	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	0.92		0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	9.0		0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	0.52		0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	1.3		0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	1.8		0.50	1	06/18/12	06/18/12	KWG1206609	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-19
Lab Code: K1205520-006
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	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	81	73-122	06/18/12	Acceptable
Toluene-d8	89	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	77	68-117	06/18/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1205520-007
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	2.8		0.50	1	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	0.67		0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	0.63		0.50	1	06/18/12	06/18/12	KWG1206609	
Acrolein	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
3-Chloro-1-propene	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Acetonitrile	ND	U	50	1	06/18/12	06/18/12	KWG1206609	
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	3.1		0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Chloroprene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
2,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,2-Dichloroethene	9.1		0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Propionitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Methacrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Isobutyl Alcohol	ND	U	100	1	06/18/12	06/18/12	KWG1206609	*
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	1.6		0.50	1	06/18/12	06/18/12	KWG1206609	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1205520-007
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
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Methyl Methacrylate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	0.59		0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethyl Methacrylate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	5.0		0.50	1	06/18/12	06/18/12	KWG1206609	
2-Hexanone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*
1,2,4-Trichlorobenzene	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	

* See Case Narrative

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1205520-007

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	82	73-122	06/18/12	Acceptable
Toluene-d8	88	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	78	68-117	06/18/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: D15
Lab Code: K1205520-008
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	2.9		0.50	1	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	0.62		0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	0.65		0.50	1	06/18/12	06/18/12	KWG1206609	
Acrolein	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
3-Chloro-1-propene	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Acetonitrile	ND	U	50	1	06/18/12	06/18/12	KWG1206609	
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	3.0		0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Chloroprene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
2,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,2-Dichloroethene	9.0		0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Propionitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Methacrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Isobutyl Alcohol	ND	U	100	1	06/18/12	06/18/12	KWG1206609	*
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	1.6		0.50	1	06/18/12	06/18/12	KWG1206609	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: D15
Lab Code: K1205520-008
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
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Methyl Methacrylate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethyl Methacrylate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	4.8		0.50	1	06/18/12	06/18/12	KWG1206609	
2-Hexanone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*
1,2,4-Trichlorobenzene	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	

* See Case Narrative

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: D15
Lab Code: K1205520-008

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	80	73-122	06/18/12	Acceptable
Toluene-d8	89	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	77	68-117	06/18/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-14b
Lab Code: K1205520-009
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	0.56		0.50	1	06/19/12	06/19/12	KWG1206659	
Chloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Chloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichlorofluoromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Acrolein	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	*
Acetone	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Iodomethane	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	*
Carbon Disulfide	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
3-Chloro-1-propene	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Acetonitrile	ND	U	50	1	06/19/12	06/19/12	KWG1206659	*
Methylene Chloride	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Acrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Acetate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Chloroprene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
2,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
2-Butanone (MEK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Propionitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Methacrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Bromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroform	1.1		0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Carbon Tetrachloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Isobutyl Alcohol	ND	U	100	1	06/19/12	06/19/12	KWG1206659	*
Benzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichloroethene (TCE)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	

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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-14b
Lab Code: K1205520-009
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
1,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Dibromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Methyl Methacrylate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Bromodichloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Toluene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethyl Methacrylate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
1,1,2-Trichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Tetrachloroethene (PCE)	0.67		0.50	1	06/19/12	06/19/12	KWG1206659	
2-Hexanone	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
1,3-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Dibromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Chlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethylbenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
m,p-Xylenes	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
o-Xylene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Styrene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromoform	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,2,3-Trichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,3-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,4-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
1,2,4-Trichlorobenzene	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	

* See Case Narrative

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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-14b
Lab Code: K1205520-009

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	06/19/12	Acceptable
Toluene-d8	100	65-144	06/19/12	Acceptable
4-Bromofluorobenzene	88	68-117	06/19/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-18
Lab Code: K1205520-010
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	0.58		0.50	1	06/19/12	06/19/12	KWG1206659	
Chloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Chloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichlorofluoromethane	0.93		0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	*
Acetone	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Iodomethane	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	*
Carbon Disulfide	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Methylene Chloride	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Acrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Acetate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
2-Butanone (MEK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Bromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroform	0.68		0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Carbon Tetrachloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Benzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichloroethene (TCE)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Dibromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromodichloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Toluene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,2-Trichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Tetrachloroethene (PCE)	1.0		0.50	1	06/19/12	06/19/12	KWG1206659	

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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-18
Lab Code: K1205520-010
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	06/19/12	06/19/12	KWG1206659	
Dibromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Chlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethylbenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
m,p-Xylenes	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
o-Xylene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Styrene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromoform	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,2,3-Trichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,4-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	06/19/12	Acceptable
Toluene-d8	99	65-144	06/19/12	Acceptable
4-Bromofluorobenzene	89	68-117	06/19/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1205520-011
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	1.0		0.50	1	06/19/12	06/19/12	KWG1206659	
Chloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Chloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichlorofluoromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	*
Acetone	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Iodomethane	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	*
Carbon Disulfide	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Methylene Chloride	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Acrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Acetate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
2-Butanone (MEK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Bromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroform	0.66		0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Carbon Tetrachloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Benzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichloroethene (TCE)	0.63		0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Dibromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromodichloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Toluene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,2-Trichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Tetrachloroethene (PCE)	0.85		0.50	1	06/19/12	06/19/12	KWG1206659	

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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1205520-011
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	06/19/12	06/19/12	KWG1206659	
Dibromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Chlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethylbenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
m,p-Xylenes	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
o-Xylene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Styrene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromoform	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,2,3-Trichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,4-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	98	73-122	06/19/12	Acceptable
Toluene-d8	101	65-144	06/19/12	Acceptable
4-Bromofluorobenzene	87	68-117	06/19/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-24
Lab Code: K1205520-012
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Chloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichlorofluoromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	*
Acetone	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Iodomethane	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	*
Carbon Disulfide	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Methylene Chloride	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Acrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Acetate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
2-Butanone (MEK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Bromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroform	0.76		0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Carbon Tetrachloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Benzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichloroethene (TCE)	0.70		0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Dibromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromodichloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Toluene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,2-Trichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Tetrachloroethene (PCE)	0.78		0.50	1	06/19/12	06/19/12	KWG1206659	

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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-24
Lab Code: K1205520-012
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	06/19/12	06/19/12	KWG1206659	
Dibromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Chlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethylbenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
m,p-Xylenes	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
o-Xylene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Styrene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromoform	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,2,3-Trichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,4-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	06/19/12	Acceptable
Toluene-d8	99	65-144	06/19/12	Acceptable
4-Bromofluorobenzene	87	68-117	06/19/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-17
Lab Code: K1205520-013
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	06/19/12	06/19/12	KWG1206659	
Chloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Chloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichlorofluoromethane	0.63		0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	*
Acetone	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Iodomethane	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	*
Carbon Disulfide	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Methylene Chloride	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Acrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Acetate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
2-Butanone (MEK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Bromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroform	0.66		0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Carbon Tetrachloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Benzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichloroethene (TCE)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Dibromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromodichloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Toluene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,2-Trichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Tetrachloroethene (PCE)	0.77		0.50	1	06/19/12	06/19/12	KWG1206659	

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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-17
Lab Code: K1205520-013
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	06/19/12	06/19/12	KWG1206659	
Dibromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Chlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethylbenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
m,p-Xylenes	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
o-Xylene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Styrene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromoform	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,2,3-Trichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,4-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	99	73-122	06/19/12	Acceptable
Toluene-d8	100	65-144	06/19/12	Acceptable
4-Bromofluorobenzene	88	68-117	06/19/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1205520-014
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	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1205520-014
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	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	80	73-122	06/18/12	Acceptable
Toluene-d8	89	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	78	68-117	06/18/12	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: K1205520
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206609-5
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	06/18/12	06/18/12	KWG1206609	
Chloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Chloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichlorofluoromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acrolein	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Acetone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Iodomethane	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Carbon Disulfide	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
3-Chloro-1-propene	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Acetonitrile	ND	U	50	1	06/18/12	06/18/12	KWG1206609	
Methylene Chloride	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Acrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Vinyl Acetate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Chloroprene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
2,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,2-Dichloroethene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Butanone (MEK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Propionitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Methacrylonitrile	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Bromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Chloroform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Carbon Tetrachloride	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Isobutyl Alcohol	ND	U	100	1	06/18/12	06/18/12	KWG1206609	*
Benzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Trichloroethene (TCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	

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: K1205520
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206609-5
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
1,2-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromomethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Methyl Methacrylate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
Bromodichloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
Toluene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethyl Methacrylate	ND	U	5.0	1	06/18/12	06/18/12	KWG1206609	
1,1,2-Trichloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
2-Hexanone	ND	U	20	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Dibromochloromethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	
Chlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Ethylbenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
m,p-Xylenes	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
o-Xylene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Styrene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
Bromoform	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	*
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	*
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/18/12	06/18/12	KWG1206609	
1,2,3-Trichloropropane	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,3-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,4-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dichlorobenzene	ND	U	0.50	1	06/18/12	06/18/12	KWG1206609	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	*
1,2,4-Trichlorobenzene	ND	U	2.0	1	06/18/12	06/18/12	KWG1206609	

* See Case Narrative

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: K1205520
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206609-5

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	76	73-122	06/18/12	Acceptable
Toluene-d8	89	65-144	06/18/12	Acceptable
4-Bromofluorobenzene	79	68-117	06/18/12	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: K1205520
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206659-4
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	06/19/12	06/19/12	KWG1206659	
Chloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Chloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichlorofluoromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Acrolein	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	*
Acetone	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Iodomethane	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	*
Carbon Disulfide	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
3-Chloro-1-propene	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Acetonitrile	ND	U	50	1	06/19/12	06/19/12	KWG1206659	*
Methylene Chloride	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Acrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
trans-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Vinyl Acetate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Chloroprene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
2,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,2-Dichloroethene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
2-Butanone (MEK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Propionitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Methacrylonitrile	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Bromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Chloroform	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1-Trichloroethane (TCA)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Carbon Tetrachloride	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Isobutyl Alcohol	ND	U	100	1	06/19/12	06/19/12	KWG1206659	*
Benzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichloroethane (EDC)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Trichloroethene (TCE)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	

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: K1205520
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206659-4
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
1,2-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Dibromomethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Methyl Methacrylate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
Bromodichloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
4-Methyl-2-pentanone (MIBK)	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
Toluene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,3-Dichloropropene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethyl Methacrylate	ND	U	5.0	1	06/19/12	06/19/12	KWG1206659	
1,1,2-Trichloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Tetrachloroethene (PCE)	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
2-Hexanone	ND	U	20	1	06/19/12	06/19/12	KWG1206659	
1,3-Dichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Dibromochloromethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromoethane (EDB)	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
Chlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Ethylbenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
m,p-Xylenes	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
o-Xylene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Styrene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
Bromoform	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
cis-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
trans-1,4-Dichloro-2-butene	ND	U	10	1	06/19/12	06/19/12	KWG1206659	
1,2,3-Trichloropropane	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,3-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,4-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dichlorobenzene	ND	U	0.50	1	06/19/12	06/19/12	KWG1206659	
1,2-Dibromo-3-chloropropane	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	
1,2,4-Trichlorobenzene	ND	U	2.0	1	06/19/12	06/19/12	KWG1206659	

* See Case Narrative

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: K1205520
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206659-4

Units: ug/L
Basis: NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	97	73-122	06/19/12	Acceptable
Toluene-d8	101	65-144	06/19/12	Acceptable
4-Bromofluorobenzene	88	68-117	06/19/12	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: K1205520

**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	K1205520-001	79	89	78
C2	K1205520-002	79	89	77
Schmidt	K1205520-003	79	89	79
Small	K1205520-004	80	90	78
Kinman	K1205520-005	80	89	76
MW-19	K1205520-006	81	89	77
MW-15	K1205520-007	82	88	78
D15	K1205520-008	80	89	77
MW-14b	K1205520-009	99	100	88
MW-18	K1205520-010	97	99	89
MW-23	K1205520-011	98	101	87
MW-24	K1205520-012	99	99	87
MW-17	K1205520-013	99	100	88
Trip Blank	K1205520-014	80	89	78
Batch QC	K1205525-002	100	100	89
Method Blank	KWG1206609-5	76	89	79
Method Blank	KWG1206659-4	97	101	88
Batch QCMS	KWG1206659-1	99	102	94
Batch QCDMS	KWG1206659-2	97	102	95
Lab Control Sample	KWG1206609-3	85	92	81
Duplicate Lab Control Sample	KWG1206609-4	86	92	80
Lab Control Sample	KWG1206659-3	95	102	93

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: K1205520
Date Extracted: 06/19/2012
Date Analyzed: 06/19/2012

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

Sample Name: Batch QC
Lab Code: K1205525-002
Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206659

Analyte Name	Sample Result	Batch QCMS KWG1206659-1 Matrix Spike			Batch QCDMS KWG1206659-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	10.2	10.0	102	9.43	10.0	94	49-136	8	30
1,1-Dichloroethene	ND	9.66	10.0	97	8.84	10.0	88	59-171	9	30
Chloroform	ND	10.5	10.0	105	10.2	10.0	102	64-133	3	30
Carbon Tetrachloride	ND	8.62	10.0	86	8.37	10.0	84	53-161	3	30
Benzene	ND	10.8	10.0	108	10.3	10.0	103	63-144	4	30
Trichloroethene (TCE)	ND	9.49	10.0	95	9.04	10.0	90	53-139	5	30
Bromodichloromethane	ND	10.1	10.0	101	10.1	10.0	101	61-134	0	30
Toluene	0.70	10.4	10.0	97	9.87	10.0	92	71-136	5	30
1,1,2-Trichloroethane	ND	10.8	10.0	108	10.6	10.0	106	74-124	1	30
2-Hexanone	ND	47.8	50.0	96	50.2	50.0	100	53-132	5	30
Chlorobenzene	ND	9.34	10.0	93	8.91	10.0	89	69-126	5	30
Ethylbenzene	ND	8.94	10.0	89	8.56	10.0	86	66-136	4	30
1,2,3-Trichloropropane	ND	10.3	10.0	103	10.3	10.0	103	71-127	0	30
1,2-Dichlorobenzene	ND	9.83	10.0	98	9.55	10.0	96	72-119	3	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: K1205520
Date Extracted: 06/18/2012
Date Analyzed: 06/18/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206609

Analyte Name	Lab Control Sample KWG1206609-3 Lab Control Spike			Duplicate Lab Control Sample KWG1206609-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Dichlorodifluoromethane	10.1	10.0	101	9.83	10.0	98	32-124	2	30
Chloromethane	9.64	10.0	96	8.90	10.0	89	34-130	8	30
Vinyl Chloride	8.73	10.0	87	8.36	10.0	84	55-123	4	30
Bromomethane	7.83	10.0	78	7.43	10.0	74	35-113	5	30
Chloroethane	9.54	10.0	95	9.28	10.0	93	58-134	3	30
Trichlorofluoromethane	8.71	10.0	87	8.39	10.0	84	52-141	4	30
Acrolein	99.0	100	99	107	100	107	42-118	7	30
1,1-Dichloroethene	11.3	10.0	113	10.7	10.0	107	66-129	5	30
Acetone	57.3	50.0	115	60.2	50.0	120	68-135	5	30
Iodomethane	44.4	30.0	148	42.3	30.0	141	51-164	5	30
Carbon Disulfide	13.7	20.0	68	13.0	20.0	65	46-144	5	30
3-Chloro-1-propene	25.8	30.0	86	24.4	30.0	81	42-147	5	30
Acetonitrile	304	300	101	329	300	110	69-132	8	30
Methylene Chloride	9.91	10.0	99	9.72	10.0	97	71-122	2	30
Acrylonitrile	34.6	40.0	86	37.6	40.0	94	65-129	8	30
trans-1,2-Dichloroethene	9.87	10.0	99	9.54	10.0	95	67-125	3	30
1,1-Dichloroethane	10.0	10.0	100	9.74	10.0	97	68-132	3	30
Vinyl Acetate	40.1	50.0	80	41.9	50.0	84	44-156	4	30
Chloroprene	32.3	30.0	108	30.7	30.0	102	43-146	5	30
2,2-Dichloropropane	7.41	10.0	74	7.02	10.0	70	37-145	5	30
cis-1,2-Dichloroethene	9.50	10.0	95	8.95	10.0	90	71-118	6	30
2-Butanone (MEK)	44.0	50.0	88	46.9	50.0	94	71-149	7	30
Propionitrile	26.9	30.0	90	30.1	30.0	100	46-137	11	30
Methacrylonitrile	25.2	30.0	84	27.7	30.0	92	47-136	9	30
Bromochloromethane	10.5	10.0	105	10.6	10.0	106	75-131	1	30
Chloroform	10.2	10.0	102	9.75	10.0	98	70-129	4	30
1,1,1-Trichloroethane (TCA)	9.14	10.0	91	8.67	10.0	87	59-136	5	30
Carbon Tetrachloride	8.95	10.0	90	8.37	10.0	84	55-140	7	30
1,1-Dichloropropene	8.70	10.0	87	8.44	10.0	84	59-134	3	30
Isobutyl Alcohol	217	300	72	246	300	82	36-142	12	30
Benzene	9.40	10.0	94	9.09	10.0	91	69-124	3	30
1,2-Dichloroethane (EDC)	10.5	10.0	105	10.7	10.0	107	56-142	2	30
Trichloroethene (TCE)	9.35	10.0	94	9.02	10.0	90	67-128	4	30
1,2-Dichloropropane	9.20	10.0	92	8.88	10.0	89	67-126	4	30
Dibromomethane	8.87	10.0	89	9.29	10.0	93	69-128	5	30

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: K1205520
Date Extracted: 06/18/2012
Date Analyzed: 06/18/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206609

Analyte Name	Lab Control Sample KWG1206609-3 Lab Control Spike			Duplicate Lab Control Sample KWG1206609-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Methyl Methacrylate	23.9	30.0	80	25.8	30.0	86	46-138	8	30
Bromodichloromethane	8.51	10.0	85	8.41	10.0	84	63-129	1	30
cis-1,3-Dichloropropene	8.36	10.0	84	8.36	10.0	84	62-132	0	30
4-Methyl-2-pentanone (MIBK)	42.1	50.0	84	46.2	50.0	92	64-134	9	30
Toluene	9.40	10.0	94	9.14	10.0	91	69-124	3	30
trans-1,3-Dichloropropene	6.98	10.0	70	7.38	10.0	74	59-125	6	30
Ethyl Methacrylate	23.3	30.0	78	25.5	30.0	85	48-143	9	30
1,1,2-Trichloroethane	8.24	10.0	82	8.84	10.0	88	74-118	7	30
Tetrachloroethene (PCE)	9.56	10.0	96	9.17	10.0	92	62-126	4	30
2-Hexanone	39.6	50.0	79	44.7	50.0	89	59-131	12	30
1,3-Dichloropropane	8.82	10.0	88	9.21	10.0	92	75-116	4	30
Dibromochloromethane	7.87	10.0	79	8.06	10.0	81	67-126	2	30
1,2-Dibromoethane (EDB)	8.59	10.0	86	9.19	10.0	92	74-118	7	30
Chlorobenzene	9.41	10.0	94	9.23	10.0	92	72-116	2	30
Ethylbenzene	8.72	10.0	87	8.72	10.0	87	67-121	0	30
1,1,1,2-Tetrachloroethane	8.91	10.0	89	8.78	10.0	88	66-124	1	30
m,p-Xylenes	18.4	20.0	92	18.0	20.0	90	69-121	2	30
o-Xylene	9.00	10.0	90	8.93	10.0	89	71-119	1	30
Styrene	9.36	10.0	94	9.61	10.0	96	74-121	3	30
Bromoform	6.62	10.0	66	6.91	10.0	69	52-144	4	30
cis-1,4-Dichloro-2-butene	19.7	30.0	66	21.1	30.0	70	26-171	7	30
1,1,2,2-Tetrachloroethane	7.83	10.0	78	8.63	10.0	86	70-127	10	30
trans-1,4-Dichloro-2-butene	21.3	30.0	71	23.5	30.0	78	46-170	10	30
1,2,3-Trichloropropane	8.93	10.0	89	9.49	10.0	95	69-123	6	30
1,3-Dichlorobenzene	9.45	10.0	95	9.29	10.0	93	70-116	2	30
1,4-Dichlorobenzene	9.54	10.0	95	9.38	10.0	94	73-115	2	30
1,2-Dichlorobenzene	9.22	10.0	92	9.41	10.0	94	72-115	2	30
1,2-Dibromo-3-chloropropane	6.45	10.0	65	7.38	10.0	74	55-132	13	30
1,2,4-Trichlorobenzene	8.69	10.0	87	9.15	10.0	92	58-126	5	30

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: K1205520
Date Extracted: 06/19/2012
Date Analyzed: 06/19/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206659

Lab Control Sample
 KWG1206659-3
 Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Dichlorodifluoromethane	8.18	10.0	82	32-124
Chloromethane	10.7	10.0	107	34-130
Vinyl Chloride	8.59	10.0	86	55-123
Bromomethane	7.98	10.0	80	35-113
Chloroethane	9.53	10.0	95	58-134
Trichlorofluoromethane	6.12	10.0	61	52-141
Acrolein	70.1	100	70	42-118
1,1-Dichloroethene	8.01	10.0	80	66-129
Acetone	66.9	50.0	134	68-135
Iodomethane	27.7	30.0	92	51-164
Carbon Disulfide	15.6	20.0	78	46-144
3-Chloro-1-propene	33.2	30.0	111	42-147
Acetonitrile	397	300	132	69-132
Methylene Chloride	9.69	10.0	97	71-122
Acrylonitrile	47.9	40.0	120	65-129
trans-1,2-Dichloroethene	8.82	10.0	88	67-125
1,1-Dichloroethane	9.81	10.0	98	68-132
Vinyl Acetate	40.9	50.0	82	44-156
Chloroprene	36.0	30.0	120	43-146
2,2-Dichloropropane	6.96	10.0	70	37-145
cis-1,2-Dichloroethene	9.44	10.0	94	71-118
2-Butanone (MEK)	58.1	50.0	116	71-149
Propionitrile	37.5	30.0	125	46-137
Methacrylonitrile	34.1	30.0	114	47-136
Bromochloromethane	9.22	10.0	92	75-131
Chloroform	9.91	10.0	99	70-129
1,1,1-Trichloroethane (TCA)	7.32	10.0	73	59-136
Carbon Tetrachloride	6.95	10.0	70	55-140
1,1-Dichloropropene	8.29	10.0	83	59-134
Isobutyl Alcohol	356	300	119	36-142
Benzene	9.94	10.0	99	69-124
1,2-Dichloroethane (EDC)	11.1	10.0	111	56-142
Trichloroethene (TCE)	8.49	10.0	85	67-128
1,2-Dichloropropane	10.6	10.0	106	67-126
Dibromomethane	10.0	10.0	100	69-128

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: K1205520
Date Extracted: 06/19/2012
Date Analyzed: 06/19/2012

**Lab Control Spike Summary
 Volatile Organic Compounds**

Extraction Method: EPA 5030B
Analysis Method: 8260C

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206659

Lab Control Sample
 KWG1206659-3
 Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Methyl Methacrylate	33.2	30.0	111	46-138
Bromodichloromethane *	9.71	10.0	97	63-129
cis-1,3-Dichloropropene	9.79	10.0	98	62-132
4-Methyl-2-pentanone (MIBK)	53.7	50.0	107	64-134
Toluene	9.08	10.0	91	69-124
trans-1,3-Dichloropropene	8.23	10.0	82	59-125
Ethyl Methacrylate	32.6	30.0	109	48-143
1,1,2-Trichloroethane	10.1	10.0	101	74-118
Tetrachloroethene (PCE)	7.03	10.0	70	62-126
2-Hexanone	51.9	50.0	104	59-131
1,3-Dichloropropane	10.2	10.0	102	75-116
Dibromochloromethane	8.24	10.0	82	67-126
1,2-Dibromoethane (EDB)	9.14	10.0	91	74-118
Chlorobenzene	8.65	10.0	87	72-116
Ethylbenzene	8.03	10.0	80	67-121
1,1,1,2-Tetrachloroethane	8.13	10.0	81	66-124
m,p-Xylenes	16.3	20.0	81	69-121
o-Xylene	8.50	10.0	85	71-119
Styrene	8.95	10.0	90	74-121
Bromoform	7.83	10.0	78	52-144
cis-1,4-Dichloro-2-butene	27.4	30.0	91	26-171
1,1,2,2-Tetrachloroethane	11.3	10.0	113	70-127
trans-1,4-Dichloro-2-butene	35.4	30.0	118	46-170
1,2,3-Trichloropropane	10.1	10.0	101	69-123
1,3-Dichlorobenzene	9.45	10.0	95	70-116
1,4-Dichlorobenzene	9.57	10.0	96	73-115
1,2-Dichlorobenzene	9.38	10.0	94	72-115
1,2-Dibromo-3-chloropropane	9.09	10.0	91	55-132
1,2,4-Trichlorobenzene	8.59	10.0	86	58-126

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.

Volatile Organic Compounds

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Camp
Lab Code: K1205520-001
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	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	06/19/12	Acceptable
Toluene-d8	114	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	83	46-118	06/19/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: C2
Lab Code: K1205520-002
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	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	06/19/12	Acceptable
Toluene-d8	114	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	83	46-118	06/19/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Schmidt
Lab Code: K1205520-003
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	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	108	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	83	46-118	06/19/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Small
Lab Code: K1205520-004
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	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	83	46-118	06/19/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Kinman
Lab Code: K1205520-005
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	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	109	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	83	46-118	06/19/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-19
Lab Code: K1205520-006
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	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	83	46-118	06/19/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-15
Lab Code: K1205520-007
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	780	20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	83	46-118	06/19/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: D15
Lab Code: K1205520-008
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Vinyl Chloride	790		20	1	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	83	46-118	06/19/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-14b
Lab Code: K1205520-009
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	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	110	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	83	46-118	06/19/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-18
Lab Code: K1205520-010
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	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	111	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	82	46-118	06/19/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-23
Lab Code: K1205520-011
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	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	112	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	82	46-118	06/19/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-24
Lab Code: K1205520-012
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	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	112	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	82	46-118	06/19/12	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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: MW-17
Lab Code: K1205520-013
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	06/19/12	06/19/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	112	77-123	06/19/12	Acceptable
Toluene-d8	112	74-112	06/19/12	Acceptable
4-Bromofluorobenzene	83	46-118	06/19/12	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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1205520-014
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	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	112	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/19/12	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: K1205520
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206617-4
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	06/18/12	06/18/12	KWG1206617	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	107	77-123	06/18/12	Acceptable
Toluene-d8	114	74-112	06/18/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/18/12	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: K1205520
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1206657-4
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	06/19/12	06/19/12	KWG1206657	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Dibromofluoromethane	111	77-123	06/19/12	Acceptable
Toluene-d8	113	74-112	06/19/12	Outside Control Limits
4-Bromofluorobenzene	84	46-118	06/19/12	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: K1205520

**Surrogate Recovery Summary
 Volatile Organic Compounds**

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

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>
Batch QC	K1205381-010	107	113 *	83
Camp	K1205520-001	108	114 *	83
C2	K1205520-002	108	114 *	83
Schmidt	K1205520-003	108	113 *	83
Small	K1205520-004	109	113 *	83
Kinman	K1205520-005	109	113 *	83
MW-19	K1205520-006	110	112	83
MW-15	K1205520-007	110	112	83
D15	K1205520-008	110	112	83
MW-14b	K1205520-009	110	112	83
MW-18	K1205520-010	111	113 *	82
MW-23	K1205520-011	112	113 *	82
MW-24	K1205520-012	112	113 *	82
MW-17	K1205520-013	112	112	83
Trip Blank	K1205520-014	112	113 *	84
Method Blank	KWG1206617-4	107	114 *	84
Method Blank	KWG1206657-4	111	113 *	84
Batch QCMS	KWG1206617-1	109	115 *	92
Batch QCDMS	KWG1206617-2	109	115 *	92
Lab Control Sample	KWG1206617-3	110	115 *	92
Lab Control Sample	KWG1206657-3	112	114 *	93

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: K1205520
Date Extracted: 06/18/2012
Date Analyzed: 06/18/2012

Matrix Spike/Duplicate Matrix Spike Summary
Volatile Organic Compounds

Sample Name: Batch QC
Lab Code: K1205381-010
Extraction Method: EPA 5030B
Analysis Method: 8260C SIM

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1206617

Analyte Name	Sample Result	Batch QCMS KWG1206617-1 Matrix Spike			Batch QCDMS KWG1206617-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Vinyl Chloride	ND	2210	2000	111	2070	2000	104	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: K1205520
Date Extracted: 06/18/2012
Date Analyzed: 06/18/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1206617

Analyte Name	Lab Control Sample KWG1206617-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Vinyl Chloride	2240	2000	112	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: K1205520
Date Extracted: 06/19/2012
Date Analyzed: 06/19/2012

Lab Control Spike Summary
Volatile Organic Compounds

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

Units: ng/L
Basis: NA
Level: Low
Extraction Lot: KWG1206657

Analyte Name	Lab Control Sample KWG1206657-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Vinyl Chloride	2120	2000	106	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.

Semi-Volatile Organic Compounds

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-15
Lab Code: K1205520-007
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Phenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Chlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzyl alcohol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Methylphenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachloroethane	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Methylphenol†	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Nitrobenzene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Isophorone	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Nitrophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4-Dimethylphenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4-Dichlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Naphthalene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Chloroaniline	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobutadiene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Chloro-3-methylphenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Methylnaphthalene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4,6-Trichlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Chloronaphthalene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Nitroaniline	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
Acenaphthylene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Dimethyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,6-Dinitrotoluene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Acenaphthene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
3-Nitroaniline	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrophenol	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
Dibenzofuran	ND	U	11	1	06/13/12	06/28/12	KWG1206395	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-15
Lab Code: K1205520-007
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitrophenol	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrotoluene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,3,4,6-Tetrachlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Fluorene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Chlorophenyl Phenyl Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Diethyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Nitroaniline	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
2-Methyl-4,6-dinitrophenol	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodiphenylamine	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Bromophenyl Phenyl Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobenzene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Pentachlorophenol	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
Phenanthrene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Anthracene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Di-n-butyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Fluoranthene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Pyrene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Butyl Benzyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
3,3'-Dichlorobenzidine	ND	U	26	1	06/13/12	06/28/12	KWG1206395	
Benz(a)anthracene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Chrysene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Bis(2-ethylhexyl) Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Di-n-octyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzo(b)fluoranthene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzo(k)fluoranthene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzo(a)pyrene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Dibenz(a,h)anthracene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzo(g,h,i)perylene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosomethylethylamine	ND	U	26	1	06/13/12	07/02/12	KWG1206395	*
Methyl Methanesulfonate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodiethylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Ethyl Methanesulfonate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-15
Lab Code: K1205520-007
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acetophenone	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND	U	51	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND	U	26	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	51	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	51	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	110	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	21	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-15
Lab Code: K1205520-007
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
3-Methylcholanthrene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Famphur	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Kepone	ND	U	110	1	06/13/12	07/02/12	KWG1206395	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	82	39-103	06/28/12	Acceptable
Phenol-d6	80	38-107	06/28/12	Acceptable
Nitrobenzene-d5	82	46-115	06/28/12	Acceptable
2-Fluorobiphenyl	81	48-114	06/28/12	Acceptable
2,4,6-Tribromophenol	80	46-127	06/28/12	Acceptable
Terphenyl-d14	104	32-149	06/28/12	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.
 Diphenylamine This compound can not be separated from N-Nitrosodiphenylamine.

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: D15
Lab Code: K1205520-008
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Phenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Chlorophenol *	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzyl alcohol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Methylphenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachloroethane	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Methylphenol †	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Nitrobenzene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Isophorone	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Nitrophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4-Dimethylphenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4-Dichlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Naphthalene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Chloroaniline	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobutadiene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Chloro-3-methylphenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Methylnaphthalene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4,6-Trichlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Chloronaphthalene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2-Nitroaniline	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
Acenaphthylene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Dimethyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,6-Dinitrotoluene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Acenaphthene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
3-Nitroaniline	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrophenol	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
Dibenzofuran	ND	U	11	1	06/13/12	06/28/12	KWG1206395	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: D15
Lab Code: K1205520-008
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitrophenol	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrotoluene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
2,3,4,6-Tetrachlorophenol	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Fluorene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Chlorophenyl Phenyl Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Diethyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Nitroaniline	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
2-Methyl-4,6-dinitrophenol	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodiphenylamine	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
4-Bromophenyl Phenyl Ether	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobenzene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Pentachlorophenol	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
Phenanthrene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Anthracene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Di-n-butyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Fluoranthene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Pyrene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Butyl Benzyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
3,3'-Dichlorobenzidine	ND	U	27	1	06/13/12	06/28/12	KWG1206395	
Benz(a)anthracene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Chrysene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Bis(2-ethylhexyl) Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Di-n-octyl Phthalate	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzo(b)fluoranthene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzo(k)fluoranthene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzo(a)pyrene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Dibenz(a,h)anthracene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
Benzo(g,h,i)perylene	ND	U	11	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosomethylethylamine	ND	U	27	1	06/13/12	07/02/12	KWG1206395	*
Methyl Methanesulfonate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodiethylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Ethyl Methanesulfonate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: D15
Lab Code: K1205520-008
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acetophenone	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND	U	53	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND	U	27	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	53	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	11	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	53	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	110	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	21	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	

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: K1205520
Date Collected: 06/06/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: D15 **Units:** ug/L
Lab Code: K1205520-008 **Basis:** NA
Extraction Method: EPA 3520C **Level:** Low
Analysis Method: 8270D

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
3-Methylcholanthrene	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Famphur	ND	U	11	1	06/13/12	07/02/12	KWG1206395	
Kepon	ND	U	110	1	06/13/12	07/02/12	KWG1206395	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	79	39-103	06/28/12	Acceptable
Phenol-d6	75	38-107	06/28/12	Acceptable
Nitrobenzene-d5	77	46-115	06/28/12	Acceptable
2-Fluorobiphenyl	76	48-114	06/28/12	Acceptable
2,4,6-Tribromophenol	78	46-127	06/28/12	Acceptable
Terphenyl-d14	105	32-149	06/28/12	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.
 Diphenylamine This compound can not be separated from N-Nitrosodiphenylamine.

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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-14b
Lab Code: K1205520-009
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Phenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2-Chlorophenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Benzyl alcohol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2-Methylphenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Hexachloroethane	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
4-Methylphenol†	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Nitrobenzene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Isophorone	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2-Nitrophenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2,4-Dimethylphenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2,4-Dichlorophenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Naphthalene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
4-Chloroaniline	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobutadiene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
4-Chloro-3-methylphenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2-Methylnaphthalene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2,4,6-Trichlorophenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2-Chloronaphthalene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2-Nitroaniline	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Acenaphthylene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Dimethyl Phthalate	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2,6-Dinitrotoluene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Acenaphthene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
3-Nitroaniline	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Dibenzofuran	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	

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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-14b
Lab Code: K1205520-009
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitrophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
2,4-Dinitrotoluene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
2,3,4,6-Tetrachlorophenol	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Fluorene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	*
4-Chlorophenyl Phenyl Ether	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Diethyl Phthalate	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
4-Nitroaniline	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
2-Methyl-4,6-dinitrophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosodiphenylamine	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
4-Bromophenyl Phenyl Ether	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Hexachlorobenzene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Pentachlorophenol	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Phenanthrene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Anthracene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Di-n-butyl Phthalate	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Fluoranthene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Pyrene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Butyl Benzyl Phthalate	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
3,3'-Dichlorobenzidine	ND	U	24	1	06/13/12	06/28/12	KWG1206395	
Benz(a)anthracene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Chrysene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Bis(2-ethylhexyl) Phthalate	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Di-n-octyl Phthalate	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Benzo(b)fluoranthene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Benzo(k)fluoranthene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Benzo(a)pyrene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Dibenz(a,h)anthracene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
Benzo(g,h,i)perylene	ND	U	9.6	1	06/13/12	06/28/12	KWG1206395	
N-Nitrosomethylethylamine	ND	U	24	1	06/13/12	07/02/12	KWG1206395	*
Methyl Methanesulfonate	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodiethylamine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
Ethyl Methanesulfonate	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*

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: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-14b
Lab Code: K1205520-009
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acetophenone	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND	U	48	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND	U	24	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	96	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	20	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	

Comments: _____

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

Service Request: K1205520
Date Collected: 06/07/2012
Date Received: 06/08/2012

Semi-Volatile Organic Compounds by GC/MS

Sample Name: MW-14b
Lab Code: K1205520-009
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
3-Methylcholanthrene	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Famphur	ND	U	9.6	1	06/13/12	07/02/12	KWG1206395	
Kepone	ND	U	96	1	06/13/12	07/02/12	KWG1206395	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	78	39-103	06/28/12	Acceptable
Phenol-d6	77	38-107	06/28/12	Acceptable
Nitrobenzene-d5	79	46-115	06/28/12	Acceptable
2-Fluorobiphenyl	79	48-114	06/28/12	Acceptable
2,4,6-Tribromophenol	78	46-127	06/28/12	Acceptable
Terphenyl-d14	105	32-149	06/28/12	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.
 Diphenylamine This compound can not be separated from N-Nitrosodiphenylamine.

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: K1205520
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1206395-9
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
N-Nitrosodimethylamine	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroethyl) Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Phenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Chlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzyl alcohol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroisopropyl) Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Methylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachloroethane	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosodi-n-propylamine	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Methylphenol†	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Nitrobenzene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Isophorone	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Nitrophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4-Dimethylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-chloroethoxy)methane	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4-Dichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Naphthalene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chloroaniline	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachlorobutadiene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chloro-3-methylphenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Methylnaphthalene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachlorocyclopentadiene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4,6-Trichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,4,5-Trichlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Chloronaphthalene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Acenaphthylene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Dimethyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,6-Dinitrotoluene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Acenaphthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
3-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2,4-Dinitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Dibenzofuran	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	

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: K1205520
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1206395-9
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
4-Nitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2,4-Dinitrotoluene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
2,3,4,6-Tetrachlorophenol	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Fluorene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Chlorophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Diethyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Nitroaniline	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
2-Methyl-4,6-dinitrophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosodiphenylamine	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
4-Bromophenyl Phenyl Ether	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Hexachlorobenzene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Pentachlorophenol	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Phenanthrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Anthracene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Di-n-butyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Butyl Benzyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
3,3'-Dichlorobenzidine	ND	U	24	1	06/13/12	06/27/12	KWG1206395	
Benz(a)anthracene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Chrysene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Bis(2-ethylhexyl) Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Di-n-octyl Phthalate	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(b)fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(k)fluoranthene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(a)pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Indeno(1,2,3-cd)pyrene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Dibenz(a,h)anthracene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
Benzo(g,h,i)perylene	ND	U	9.5	1	06/13/12	06/27/12	KWG1206395	
N-Nitrosomethylethylamine	ND	U	24	1	06/13/12	07/02/12	KWG1206395	*
Methyl Methanesulfonate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodiethylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Ethyl Methanesulfonate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*

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: K1205520
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1206395-9
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Acetophenone	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopyrrolidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
o-Toluidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosopiperidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
O,O,O-Triethyl Phosphorothioate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
2,6-Dichlorophenol	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Hexachloropropene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
p-Phenylenediamine	ND	U	48	1	06/13/12	07/02/12	KWG1206395	*
N-Nitrosodi-n-butylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Safrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,2,4,5-Tetrachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Isosafrole	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1,4-Naphthoquinone	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
1,3-Dinitrobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pentachlorobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
1-Naphthylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
2-Naphthylamine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
5-Nitro-o-toluidine	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Thionazin	ND	U	24	1	06/13/12	07/02/12	KWG1206395	
Diphenylamine†	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Phenacetin	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Diallate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
4-Aminobiphenyl	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Pronamide	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	*
Pentachloronitrobenzene	ND	U	48	1	06/13/12	07/02/12	KWG1206395	
Parathion	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Methapyrilene	ND	U	95	1	06/13/12	07/02/12	KWG1206395	*
Isodrin	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
p-Dimethylaminoazobenzene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Chlorobenzilate	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
3,3'-Dimethylbenzidine	ND	U	19	1	06/13/12	07/02/12	KWG1206395	*
2-Acetylaminofluorene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
7,12-Dimethylbenz(a)anthracene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	

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: K1205520
Date Collected: NA
Date Received: NA

Semi-Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: KWG1206395-9
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
3-Methylcholanthrene	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Famphur	ND	U	9.5	1	06/13/12	07/02/12	KWG1206395	
Kepone	ND	U	95	1	06/13/12	07/02/12	KWG1206395	

* See Case Narrative

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2-Fluorophenol	85	39-103	06/27/12	Acceptable
Phenol-d6	81	38-107	06/27/12	Acceptable
Nitrobenzene-d5	83	46-115	06/27/12	Acceptable
2-Fluorobiphenyl	82	48-114	06/27/12	Acceptable
2,4,6-Tribromophenol	78	46-127	06/27/12	Acceptable
Terphenyl-d14	102	32-149	06/27/12	Acceptable

† Analyte Comments

4-Methylphenol This analyte cannot be separated from 3-Methylphenol.
 Diphenylamine This compound can not be separated from N-Nitrosodiphenylamine.

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: K1205520

**Surrogate Recovery Summary
Semi-Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>	<u>Sur2</u>	<u>Sur3</u>	<u>Sur4</u>	<u>Sur5</u>	<u>Sur6</u>
Batch QC	K1205452-001	87	83	85	88	85	107
MW-15	K1205520-007	82	80	82	81	80	104
D15	K1205520-008	79	75	77	76	78	105
MW-14b	K1205520-009	78	77	79	79	78	105
Method Blank	KWG1206395-9	85	81	83	82	78	102
Batch QCMS	KWG1206395-1	76	73	79	83	91	101
Batch QCDMS	KWG1206395-2	75	79	83	82	92	96
Lab Control Sample	KWG1206395-3	79	78	86	82	89	93
Duplicate Lab Control Sample	KWG1206395-4	80	78	87	81	90	98
Lab Control Sample	KWG1206395-5	83	83	85	83	93	95
Duplicate Lab Control Sample	KWG1206395-6	83	81	85	81	95	93
Lab Control Sample	KWG1206395-7	79	75	79	74	75	108
Duplicate Lab Control Sample	KWG1206395-8	86	83	81	83	84	105

Surrogate Recovery Control Limits (%)

Sur1 = 2-Fluorophenol	39-103	Sur5 = 2,4,6-Tribromophenol	46-127
Sur2 = Phenol-d6	38-107	Sur6 = Terphenyl-d14	32-149
Sur3 = Nitrobenzene-d5	46-115		
Sur4 = 2-Fluorobiphenyl	48-114		

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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/28/2012

**Matrix Spike/Duplicate Matrix Spike Summary
Semi-Volatile Organic Compounds by GC/MS**

Sample Name: Batch QC
Lab Code: K1205452-001
Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Sample Result	Batch QCMS KWG1206395-1 Matrix Spike			Batch QCDMS KWG1206395-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Phenol	ND	72.9	96.2	76	75.6	96.2	79	10-147	4	30
2-Chlorophenol	ND	76.1	96.2	79	72.9	96.2	76	43-103	4	30
Hexachloroethane	ND	65.6	96.2	68	69.9	96.2	73	37-93	6	30
N-Nitrosodi-n-propylamine	ND	77.4	96.2	81	72.7	96.2	76	46-112	6	30
4-Chloro-3-methylphenol	ND	83.6	96.2	87	82.8	96.2	86	32-124	1	30
2-Chloronaphthalene	ND	82.3	96.2	86	80.8	96.2	84	40-108	2	30
Acenaphthene	ND	88.9	96.2	92	81.6	96.2	85	37-119	9	30
4-Nitrophenol	ND	89.6	96.2	93	90.3	96.2	94	42-137	1	30
2,4-Dinitrotoluene	ND	94.3	96.2	98	97.6	96.2	101	54-119	3	30
Diethyl Phthalate	ND	87.8	96.2	91	87.0	96.2	90	44-132	1	30
4-Bromophenyl Phenyl Ether	ND	91.0	96.2	95	86.8	96.2	90	28-133	5	30
Pentachlorophenol	ND	88.1	96.2	92	83.8	96.2	87	43-132	5	30
Pyrene	ND	87.5	96.2	91	82.8	96.2	86	19-138	5	30
Benzo(a)pyrene	ND	91.5	96.2	95	85.4	96.2	89	24-131	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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/27/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Lab Control Sample KWG1206395-3 Lab Control Spike			Duplicate Lab Control Sample KWG1206395-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
N-Nitrosodimethylamine	78.1	100	78	80.2	100	80	53-109	3	30
Bis(2-chloroethyl) Ether	80.5	100	80	77.5	100	78	56-104	4	30*
Phenol	78.3	100	78	75.4	100	75	52-104	4	30
2-Chlorophenol	80.1	100	80	77.5	100	77	59-101	3	30
Benzyl alcohol	79.6	100	80	79.8	100	80	53-111	0	30
Bis(2-chloroisopropyl) Ether	79.2	100	79	76.1	100	76	53-105	4	30
2-Methylphenol	82.5	100	83	80.1	100	80	51-108	3	30
Hexachloroethane	69.8	100	70	72.3	100	72	50-100	4	30
N-Nitrosodi-n-propylamine	80.0	100	80	78.3	100	78	56-112	2	30
4-Methylphenol	80.7	100	81	81.4	100	81	47-118	1	30
Nitrobenzene	82.1	100	82	79.9	100	80	56-108	3	30
Isophorone	79.2	100	79	83.1	100	83	57-106	5	30
2-Nitrophenol	81.8	100	82	85.7	100	86	58-108	5	30
2,4-Dimethylphenol	69.8	100	70	71.6	100	72	32-100	3	30
Bis(2-chloroethoxy)methane	77.7	100	78	81.2	100	81	57-108	4	30
2,4-Dichlorophenol	83.2	100	83	84.5	100	84	59-107	2	30
Naphthalene	74.2	100	74	78.0	100	78	60-98	5	30
4-Chloroaniline	82.1	100	82	84.9	100	85	57-111	3	30
Hexachlorobutadiene	72.7	100	73	72.2	100	72	47-106	1	30
4-Chloro-3-methylphenol	84.7	100	85	85.8	100	86	65-111	1	30
2-Methylnaphthalene	78.1	100	78	80.2	100	80	57-106	3	30
Hexachlorocyclopentadiene	34.6	100	35	37.1	100	37	10-60	7	30
2,4,6-Trichlorophenol	81.3	100	81	84.1	100	84	63-117	3	30
2,4,5-Trichlorophenol	85.9	100	86	86.4	100	86	62-117	1	30
2-Chloronaphthalene	78.8	100	79	79.4	100	79	54-107	1	30
2-Nitroaniline	84.5	100	85	86.1	100	86	62-117	2	30
Acenaphthylene	80.0	100	80	78.4	100	78	58-109	2	30
Dimethyl Phthalate	87.1	100	87	85.6	100	86	64-119	2	30
2,6-Dinitrotoluene	85.7	100	86	83.4	100	83	65-122	3	30
Acenaphthene	80.9	100	81	82.9	100	83	61-110	2	30
3-Nitroaniline	82.5	100	82	88.6	100	89	63-120	7	30
2,4-Dinitrophenol	79.2	100	79	83.5	100	83	33-126	5	30
Dibenzofuran	82.5	100	82	81.5	100	81	62-112	1	30
4-Nitrophenol	85.1	100	85	86.6	100	87	40-138	2	30
2,4-Dinitrotoluene	82.9	100	83	89.4	100	89	61-126	7	30

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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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 06/27/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Lab Control Sample KWG1206395-3 Lab Control Spike			Duplicate Lab Control Sample KWG1206395-4 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
2,3,4,6-Tetrachlorophenol	86.1	100	86	85.4	100	85	56-124	1	30
Fluorene	79.3	100	79	82.6	100	83	59-112	4	30
4-Chlorophenyl Phenyl Ether	84.8	100	85	85.2	100	85	59-113	1	30
Diethyl Phthalate	81.4	100	81	84.2	100	84	55-119	3	30
4-Nitroaniline	86.2	100	86	87.5	100	88	53-127	2	30
2-Methyl-4,6-dinitrophenol	87.4	100	87	87.8	100	88	51-127	0	30
N-Nitrosodiphenylamine	83.0	100	83	81.4	100	81	58-121	2	30
4-Bromophenyl Phenyl Ether	87.5	100	87	88.8	100	89	64-118	2	30
Hexachlorobenzene	82.8	100	83	90.5	100	90	63-117	9	30
Pentachlorophenol	84.9	100	85	85.9	100	86	51-123	1	30
Phenanthrene	79.5	100	79	86.6	100	87	64-111	9	30
Anthracene	84.1	100	84	84.3	100	84	62-116	0	30
Di-n-butyl Phthalate	85.7	100	86	82.7	100	83	65-126	4	30
Fluoranthene	80.2	100	80	83.8	100	84	52-128	4	30
Pyrene	80.8	100	81	82.1	100	82	53-124	2	30
Butyl Benzyl Phthalate	86.4	100	86	91.0	100	91	64-121	5	30
3,3'-Dichlorobenzidine	80.7	100	81	80.5	100	80	43-116	0	30
Benz(a)anthracene	88.1	100	88	87.8	100	88	69-113	0	30
Chrysene	84.3	100	84	87.3	100	87	68-114	4	30
Bis(2-ethylhexyl) Phthalate	92.7	100	93	93.0	100	93	64-122	0	30
Di-n-octyl Phthalate	87.6	100	88	87.8	100	88	60-131	0	30
Benzo(b)fluoranthene	88.4	100	88	89.9	100	90	66-117	2	30
Benzo(k)fluoranthene	85.3	100	85	90.9	100	91	63-119	6	30
Benzo(a)pyrene	88.8	100	89	88.1	100	88	57-124	1	30
Indeno(1,2,3-cd)pyrene	84.6	100	85	86.8	100	87	68-116	3	30
Dibenz(a,h)anthracene	87.4	100	87	86.1	100	86	65-121	2	30
Benzo(g,h,i)perylene	85.3	100	85	85.2	100	85	68-116	0	30

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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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 07/02/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Lab Control Sample KWG1206395-5 Lab Control Spike			Duplicate Lab Control Sample KWG1206395-6 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
N-Nitrosomethylethylamine	64.4	100	64 *	64.6	100	65 *	70-130	0	30
Methyl Methanesulfonate	62.7	100	63 *	64.8	100	65 *	70-130	3	30
N-Nitrosodiethylamine	66.2	100	66 *	66.2	100	66 *	70-130	0	30
Ethyl Methanesulfonate	65.4	100	65 *	65.5	100	65 *	70-130	0	30
Acetophenone	66.7	100	67 *	68.5	100	69 *	70-130	3	30
N-Nitrosopyrrolidine	59.2	100	59 *	59.6	100	60 *	70-130	1	30
o-Toluidine	66.7	100	67 *	66.4	100	66 *	70-130	0	30
N-Nitrosopiperidine	68.7	100	69 *	65.6	100	66 *	70-130	5	30
O,O,O-Triethyl Phosphorothioate	77.1	100	77	75.4	100	75	70-130	2	30
2,6-Dichlorophenol	77.5	100	78	74.3	100	74	70-130	4	30
Hexachloropropene	33.8	100	34 *	36.7	100	37 *	70-130	8	30
p-Phenylenediamine	7.28	100	7 *	10.2	100	10 *	70-130	34 *	30
N-Nitrosodi-n-butylamine	65.4	100	65 *	63.8	100	64 *	70-130	2	30
Safrole	72.6	100	73	66.1	100	66 *	70-130	9	30
1,2,4,5-Tetrachlorobenzene	66.3	100	66 *	62.4	100	62 *	70-130	6	30
Isosafrole	67.6	100	68 *	64.4	100	64 *	70-130	5	30
1,4-Naphthoquinone	122	100	122	116	100	116	70-130	5	30
1,3-Dinitrobenzene	85.8	100	86	84.4	100	84	70-130	2	30
Pentachlorobenzene	72.9	100	73	67.8	100	68 *	70-130	7	30
1-Naphthylamine	52.7	100	53 *	52.6	100	53 *	70-130	0	30
2-Naphthylamine	71.5	100	71	70.1	100	70	70-130	2	30
5-Nitro-o-toluidine	85.6	100	86	85.2	100	85	70-130	1	30
Thionazin	87.6	100	88	81.8	100	82	70-130	7	30
Diphenylamine	151	100	151 *	142	100	142 *	70-130	6	30
Phenacetin	76.3	100	76	78.6	100	79	70-130	3	30
Diallate	73.2	100	73	67.4	100	67 *	70-130	8	30
4-Aminobiphenyl	75.7	100	76	75.5	100	75	70-130	0	30
Pronamide	52.1	100	52 *	51.8	100	52 *	70-130	1	30
Pentachloronitrobenzene	76.6	100	77	72.0	100	72	70-130	6	30
Parathion	96.3	100	96	97.1	100	97	70-130	1	30
Methapyrilene	18.0	100	18 *	15.2	100	15 *	70-130	17	30
Isodrin	78.6	100	79	76.6	100	77	70-130	3	30
p-Dimethylaminoazobenzene	79.7	100	80	85.1	100	85	70-130	7	30
Chlorobenzilate	77.6	100	78	82.6	100	83	70-130	6	30
3,3'-Dimethylbenzidine	49.9	100	50 *	54.8	100	55 *	70-130	9	30

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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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 07/02/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Semi-Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Lab Control Sample KWG1206395-5 Lab Control Spike			Duplicate Lab Control Sample KWG1206395-6 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
2-Acetylaminofluorene	79.4	100	79	84.6	100	85	70-130	6	30
7,12-Dimethylbenz(a)anthracene	80.0	100	80	82.3	100	82	70-130	3	30
3-Methylcholanthrene	91.1	100	91	87.9	100	88	70-130	4	30

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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: K1205520
Date Extracted: 06/13/2012
Date Analyzed: 07/02/2012

**Lab Control Spike/Duplicate Lab Control Spike Summary
Semi-Volatile Organic Compounds by GC/MS**

Extraction Method: EPA 3520C
Analysis Method: 8270D

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1206395

Analyte Name	Lab Control Sample KWG1206395-7 Lab Control Spike			Duplicate Lab Control Sample KWG1206395-8 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Famphur	82.8	100	83	88.7	100	89	70-130	7	30
Kepono *	98.0	100	98	110	100	110	70-130	11	30

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