Technical Memorandum
Groundwater Quality Sampling, July 2013 Event

Date: December 12, 2013

By: Amy Blain, P.E., City of Longview

Subject: Groundwater Quality Sampling Results, July 2013 Monitoring Event

This memorandum summarizes the results of the groundwater monitoring and sampling event conducted in July 2013 for the Mint Farm Regional Water Treatment Plant well field (Mint Farm). Groundwater sampling was conducted on a semi-annual basis to establish background water quality in the well field area prior to initiation of full scale water production from the Mint Farm well field in January 2013, and continues to be sampled semi-annually to confirm consistent groundwater quality and monitor for potential water quality changes. Groundwater samples are normally collected from deep sentinel wells DW-1, DW-2, DW-5, DW-6, DW-7, and DW-9 during each semi-annual sampling event. These wells were selected based on their locations relative to nearby industrial facilities and their ability to detect potential contaminant migration from those industries. Due to accessibility restrictions encountered during this event, DW-8 was sampled instead of DW-7.

ACTIVITIES CONDUCTED DURING THE JULY 2013 MONITORING EVENT

Activities completed during this groundwater monitoring event were conducted in general accordance with *Technical Memorandum 2, Water Quality Sampling Protocol* (Kennedy/Jenks, 28 April 2009). Activities included:

- Collecting groundwater samples from deep sentinel wells DW-1, DW-2, DW-5, DW-6, DW-8, and DW-9 on July 30th and 31st, 2013. The groundwater samples were collected following well purging to stabilizate pH, temperature, conductivity, and dissolved oxygen levels.

- Submitting the groundwater samples to ALS Environmental (ALS), an EPA-certified laboratory, to analyze for constituents identified based on drinking water regulations, historical activities in the area, unregulated contaminants of emerging concern, and local industrial activity.

- Reviewing the analytical data and preparation of this summary memorandum.

DATA QUALITY

Based on a review of the laboratory reports, it is my opinion the analytical data are of acceptable quality for their intended use. A laboratory case narrative prepared by ALS is included as part of the lab reports.

RESULTS OF GROUNDWATER MONITORING

The laboratory analytical reports for the groundwater samples collected during the July 2013 sampling event are included on compact disc in Attachment A.

Iron and manganese were detected in the groundwater samples at levels that exceed the Washington Department of Health (DOH) secondary water quality standard for these constituents. Although these constituents are not regulated as a health concern, DOH regulates them in drinking water due to their aesthetic character. No other analytes were detected in groundwater samples at concentrations exceeding their respective screening levels.

Screening levels for regulated contaminants are equivalent to the Maximum Contaminent Level (MCL) and Secondary Maximum Contaminant Level (SMCL) established by the Washington State Department of Health and National Primary Drinking Water Regulations. Screening levels for unregulated contaminants are determined by the methods described in the Mint Farm Regional Water Treatment Plant Preliminary Design Report (PDR), dated March 2010 and referred to in the Wellhead Protection Program described in Chapter 5 of the current City of Longview Comprehensive Water System Plan.

FUTURE SAMPLING ACTIVITIES

The pressure transducers were removed from all wells in December 2012 and sent to the manufacturer for cable servicing, dessicant and battery replacement. The transducers were redeployed in only the deep monitoring wells in April 2013. Pressure transducer data was not downloaded during this sampling event but will be downloaded periodically to evaluate changes in groundwater flow patterns.

Monitoring well sampling will continue on a semi-annual basis.

REFERENCES

Kennedy/Jenks Consultants, 2009. Technical Memorandum 2, Water Quality Sampling Protocol. Kennedy/Jenks Consultants, 28 April 2009.

Kennedy/Jenks Consultants, 2010. Preliminary Design Report (PDR Part 2) for the City of Longview (City) Mint Farm Regional Water Treatment Plant and Well Field, Part 2A: Hydrogeologic Characterization of the Mint Farm Area. Kennedy/Jenks Consultants, March 2010.

October 29, 2013

Analytical Report for Service Request No: K1307542
Revised Service Request No: K1307542.01

Jeff Coleman
Longview, City of
W/S Operation Center
P.O. Box 128
Longview, WA 98632

RE: City of Longview/48100

Dear Jeff:

Enclosed are the results of the samples submitted to our laboratory on July 30, 2013. For your reference, these analyses have been assigned our service request number K1307542.

Per request by Amy Blain, the results for EPA Methods 525.2 and 549.2 have been reviewed. The updated results where applicable are provided in this revision which supersedes the report dated September 20, 2013.

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.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. 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.

We apologize for any inconvenience this may have created.

Please call if you have any questions. My extension is 3275. You may also contact me via Email at Chris.Leaf@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Chris Leaf
Project Manager

REVISED
6:05 pm, Oct 29, 2013

CL

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626 USA | PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp. Part of the ALS Group An ALS Limited Company

Environmental 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.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2286
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L12-28
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Georgia DNR	http://www.gaepd.org/Documents/techguide_pcb.html#cel	881
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
Indiana DOH	http://www.in.gov/isdh/24859.htm	C-WA-01
ISO 17025	http://www.pjlabs.com/	L12-27
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	3016
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
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA200001
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	4704427-08-TX
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C1203
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.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/anlayte is offered by that state.

ALS ENVIRONMENTAL

Client:	Longview, City of	**Service Request No.:**	K1307542.01
Project:	City of Longview/ 48100	**Date Received:**	07/30/13
Sample Matrix:	Drinking 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 I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Three drinking water samples and one Trip Blank were received for analysis at ALS Environmental on 07/30/13. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

General Chemistry Parameters

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

Total Metals

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

EDB and DBCP by EPA Method 504.1

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

Pesticides and Polychlorinated Biphenyls by EPA Method 508.1

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

Chlorinated Acides by EPA Method 515.4

Second Source Exceptions:
The analysis of Chlorinated Herbicides by EPA 515.4 requires the use of dual column confirmation. When the Initial Calibration Verification (ICV) criteria are met for both columns, the lower of the two sample results is generally reported. The criteria was not met for Dacthal Diacid and Picloram on one column in CAL12684. The data quality was not affected. No further corrective action was necessary.

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

Volatile Organic Compounds by EPA Method 524.2

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

Approved by_____

Semivolatile Organic Compounds by EPA Method 525.2

Matrix Spike Sample Exceptions:
The matrix spike recovery of Benzo(a)pyrene for sample D.W. 6 was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential low bias in this matrix. No further corrective action was appropriate.

Surrogate Exceptions:
The surrogate Perylene-d12 failed recovery criteria in sample D.W. 9. The samples contained particulate matter that collected on the extraction disk during sample elution. Historical results have shown that particulate matter can cause recovery issues for this surrogate. No further corrective action was appropriate.

The Benzo(a)pyrene results have been corrected in this revision. A calculation error was noted after a thorough review of the data. The original results were quantitated against a quadratic curve. When area counts are below or above the calibration curve levels the software will calculate erroneous results. This occurred with this data and was not identified during initial data review. The updated report including full quality control results are included in this revision.

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

Endothall by EPA Method 548.1

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

Diquat by High Performance Liquid Chromatography

Sample Notes and Discussion:
The upper control criterion was exceeded for Diquat and Paraquat in the MRL-level laboratory fortified blank. The advisory criterion is 50-150%. Recovery in the Laboratory Control Sample (LCS) was acceptable. The sample data was not significantly affected. No further corrective action was appropriate.

The results included in this report were reviewed and confirmed to be accurately reported. Quality control results for this method have been included in this revision.

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

Carbamates by EPA Method 531.1

This analysis was performed at Eurofins Eaton Analytical in Monrovia, CA. The narrative for this analysis can be found in the corresponding section of this data package.

Glyphosate by EPA Method 547

This analysis was performed at Eurofins Eaton Analytical in Monrovia, CA. The narrative for this analysis can be found in the corresponding section of this data package.

Approved by_____

ALS Environmental

CHAIN OF CUSTODY / WA. DRINKING WATER

SR#: K1307542

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222 • FAX (360) 636-1068

Page _____ of _____

All fields must be filled out. The information in the Shaded Fields is required for reporting your results to the WA. DOH for compliance.

System Name or Property Owner Name: CITY OF LONGVIEW
☒ Public ☐ Private

Public Water System ID: 48100 Group A ☒ Group B ☐

Project Manager: (Person receiving results) JEFF COLEMAN

Address: (Street/City/State/Zip) P.O. BOX 128 LONGVIEW WA. 98632

County: COWLITZ

Phone Number: 442-5700

Sampled By: (Please print clearly) THOMAS DALY

Fax Number:

Sampler's Signature: T Daly

Sample Name	Date Collected	Time Collected	*SOURCE S B C D	Specific Location Sample Taken	Sampled Before Treatment (B)	Sampled After Treatment (A)	Unknown (NA)	Routine Compliance (RC)	Confirmation (C)	Investigative (I)	Other (specify in comments)	NUMBER OF CONTAINERS	Synthetic Organics (SOCs): 504.1☐ 515.4☐ 525.2☐ 508.1☐ 531.1☐ 547☐ 548.1☐ 549.2☐	Volatile Organics (VOCs): 524.2☐	Disinfection By-Proeucts: THM☐ HAA☐ Chlorate☐ Chlorite☐ Bromate☐	Treatment & Precursors: Fluoride☐ Residual Chlorine☐ TOC☐	Inorganics (IOCs): WA. IOC List☐ Nitrate☐ Nitrite☐ pH☐	Metals (Circle Below): Lead & Copper☐ Hardness☐	Radionuclides: Gross Alpha☐ Gross Beta☐ Radon☐ Radium 226☐ Radium 228☐	Other: Asbestos☐ Dioxions☐		
D.W. 6	7/30	2PM		DEEPWELL 6			X			X		16										

COPY OF REPORT TO:

Name: JEFF COLEMAN

Address: P.O. BOX 128 LV. WA 98632

e-mail

INVOICE INFORMATION

P.O.#: 36-4184

Bill To: CITY OF LONGVIEW

Address: P.O. BOX 128 LV. WA. 98632

SPECIAL INSTRUCTIONS/COMMENTS:

Circle Metals: Al As Sb Ba Be Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Tl Zn Hg

Fluoride Field Measurement: _____

* S - Single Source, B - Blended Source, C - Composite, D - Distribution

* For composited or blended samples, list all sources in this section

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Printed Name: THOMAS DALY	Printed Name: SHOZE	Printed Name:	Printed Name:
Signature: T Daly	Signature: [illegible]	Signature:	Signature:
Date/Time: 7/29/13	Date/Time: 7/30/13 1940	Date/Time:	Date/Time:
Company: CITY OF LONGVIEW	Company: ALS	Company:	Company:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

COC/WAD REV 07/12

ALS Environmental

CHAIN OF CUSTODY / WA. DRINKING WATER

SR#: K1307542

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Page _____ of _____

All fields must be filled out. The information in the Shaded Fields is required for reporting your results to the WA. DOH for compliance.

System Name or Property Owner Name: ☒ Public ☐ Private CITY OF LONGVIEW

Public Water System ID: 48100 Group A ☒ Group B ☐

Project Manager: (Person receiving results) JEFF COLEMAN

Address: (Street/City/State/Zip) P.O. BOX 128/LONGVIEW/WA/98632

County: COWLITZ

Phone Number: 360 442-5700

Sampled By: (Please print clearly) TOMAS DALY

Fax Number: 442 5957

Sampler's Signature: T Daly

Sample Name	Date Collected	Time Collected	*SOURCE S B C D	Specific Location Sample Taken	Sampled Before Treatment (B)	Sampled After Treatment (A)	Unknown (NA)	Routine Compliance (RC)	Confirmation (C)	Investigative (I)	Other (specify in comments)	NUMBER OF CONTAINERS	Synthetic Organics (SOCs): 504.1☐ 515.4☐ 525.2☐ 508.1☐ 531.1☐ 547☐ 548.1☐ 549.2☐	Volatile Organics (VOCs): 524.2☐	Disinfection By-Proeucts: THM☐ HAA☐ Chlorate☐ Chlorite☐ Bromate☐	Treatment & Precursors: Fluoride☐ Residual Chlorine☐ TOC☐	Inorganics (IOCs): WA. IOC List☐ Nitrate☐ Nitrite☐ pH☐	Metals (Circle Below): Lead & Copper☐ Hardness☐	Radionuclides: Gross Alpha☐ Gross Beta☐ Radon☐ Radium 226☐ Radium 228☐	*Other: Asbestos☐ Dioxins☐		
D.W. 8	7/30	11:25		DW 8			X			X		16										

COPY OF REPORT TO:

Name: Jeff Coleman

Address: PO Box 128

Longview WA

98632

e-mail

INVOICE INFORMATION

P.O.#: 36-4184

Bill To: City of Longview

Address: PO Box 128

Longview WA 98632

SPECIAL INSTRUCTIONS/COMMENTS:

Circle Metals: Al As Sb Ba Be Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Tl Zn Hg

Do Not Report

Fluoride Field Measurement: _____

* S - Single Source, B - Blended Source, C - Composite, D - Distribution

* For composited or blended samples, list all sources in this section

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Printed Name: T Daly	Printed Name: Suez F	Printed Name:	Printed Name:
Signature: T Daly	Signature: [illegible]	Signature:	Signature:
Date/Time: 7/30/13 01539	Date/Time: 7/30/13 1540	Date/Time:	Date/Time:
Company: C of L	Company: ALS	Company:	Company:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

COC/WAD REV 07/12

ALS Environmental

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Page _____ of _____

All fields must be filled out. The information in the Shaded Fields is required for reporting your results to the WA. DOH for compliance.

System Name or Property Owner Name: ☒ Public ☐ Private CITY OF LONGVIEW

Public Water System ID: 48100 Group A ☒ Group B ☐

Project Manager: (Person receiving results) JEFF COLEMAN

Address: (Street/City/State/Zip) P.O. BOX 128 LONGVIEW WA 98632

County: COWLITZ

Phone Number: 360 442 5700

Sampled By: (Please print clearly) THOMAS DALY

Fax Number:

Sampler's Signature: T Daly

Sample Name	Date Collected	Time Collected	* SOURCE S B C D	Specific Location Sample Taken	Sampled Before Treatment (B)	Sampled After Treatment (A)	Unknown (NA)	Routine Compliance (RC)	Confirmation (C)	Investigative (I)	Other (specify in comments)	NUMBER OF CONTAINERS	Synthetic Organics (SOCs): 504.1 ☐ 508.1 ☐ 515.4 ☐ 525.2 ☐ 531.1 ☐ 547 ☐ 548.1 ☐ 549.2 ☐	Volatile Organics (VOCs): 524.2 ☐	Disinfection By-Proeucts: THM ☐ HAA ☐ Chlorate ☐ Chlorite ☐ Bromate ☐	Treatment & Precursors: Residual Chlorine ☐ Fluoride ☐ TOC ☐	Inorganics (IOCs): WA. IOC List ☐ Nitrate ☐ Nitrite ☐ pH ☐	Metals (Circle Below): Lead & Copper ☐ Hardness ☐	Radionuclides: Gross Alpha ☐ Gross Beta ☐ Radon ☐ Radium 226 ☐ Radium 228 ☐	Other: Asbestos ☐ Dioxions ☐		
DW9	7/30/13	10:10		Deep Well 9			X			X		16											
Temp Blank																							
Blank																							

COPY OF REPORT TO:

Name: Jeff Coleman

Address: PO Box 128

Longview WA 98632

e-mail

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P.O.#: 36-4184

Bill To: City of Longview

Address: PO Box 128

Longview WA 98632

SPECIAL INSTRUCTIONS/COMMENTS:

Circle Metals: Al As Sb Ba Be Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Tl Zn Hg

Fluoride Field Measurement: _____

* S - Single Source, B - Blended Source, C - Composite, D - Distribution

* For composited or blended samples, list all sources in this section

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Printed Name: T Daly	Printed Name: JWOLF	Printed Name:	Printed Name:
Signature: T Daly	Signature: [signature]	Signature:	Signature:
Date/Time: 7/30/13 1639	Date/Time: 7/30/13 1540	Date/Time:	Date/Time:
Company: C of L	Company: ALS	Company:	Company:

DISTRIBUTION: WHITE - return to originator; YELLOW - lab; PINK - retained by originator

COC/WAD REV 07/12

ALS

PC CL

Cooler Receipt and Preservation Form

Client / Project: City of LV Service Request K13 07542

Received: 7/30/13 Opened: 7/30/13 By: [illegible] Unloaded: 7/30/13 By: [illegible]

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

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
7.7	7.8	11.4	11.9	+0.1	340			
7.7	7.6	2.6	2.5	-0.1	336			

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

Sample ID on Bottle	Sample ID on COC	Identified by:

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

SHORT HOLD TIME

Notes, Discrepancies, & Resolutions: Per T. Daly - ALS ptv report no DW form for WA DOH req'd. CL ~~7/31~~ 7/31/13 via phone.

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/13
Sample Matrix:	Drinking Water	**Date Received:**	07/30/13
Analysis Method:	180.1	**Units:**	NTU
		Basis:	NA

Turbidity

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
D.W. 6	K1307542-001	**4.03**	0.20	1	07/31/13 11:20	
D.W. 8	K1307542-002	**7.01**	0.20	1	07/31/13 11:20	
D.W. 9	K1307542-003	**1.26**	0.20	1	07/31/13 11:20	
Method Blank	K1307542-MB1	ND U	0.20	1	07/31/13 11:20	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/13
Sample Matrix:	Drinking Water	**Date Received:**	07/30/13
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
D.W. 6	K1307542-001	**103**	4.0	20	07/31/13 15:16	
D.W. 8	K1307542-002	**12.6**	0.40	2	07/31/13 11:13	
D.W. 9	K1307542-003	**5.07**	0.40	2	07/31/13 11:23	
Method Blank	K1307542-MB1	ND U	0.20	1	07/31/13 09:31	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/13
Sample Matrix:	Drinking Water	**Date Received:**	07/30/13
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Fluoride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
D.W. 6	K1307542-001	ND U	0.20	2	07/31/13 11:03	
D.W. 8	K1307542-002	ND U	0.20	2	07/31/13 11:13	
D.W. 9	K1307542-003	ND U	0.20	2	07/31/13 11:23	
Method Blank	K1307542-MB1	ND U	0.10	1	07/31/13 09:31	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/13
Sample Matrix:	Drinking Water	**Date Received:**	07/30/13
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Nitrite as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
D.W. 6	K1307542-001	ND U	0.10	2	07/31/13 11:03	
D.W. 8	K1307542-002	ND U	0.10	2	07/31/13 11:13	
D.W. 9	K1307542-003	ND U	0.10	2	07/31/13 11:23	
Method Blank	K1307542-MB1	ND U	0.050	1	07/31/13 09:31	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/13
Sample Matrix:	Drinking Water	**Date Received:**	07/30/13
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
D.W. 6	K1307542-001	ND U	0.10	2	07/31/13 11:03	
D.W. 8	K1307542-002	ND U	0.10	2	07/31/13 11:13	
D.W. 9	K1307542-003	ND U	0.10	2	07/31/13 11:23	
Method Blank	K1307542-MB1	ND U	0.050	1	07/31/13 09:31	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/13
Sample Matrix:	Drinking Water	**Date Received:**	07/30/13
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
D.W. 6	K1307542-001	**0.56**	0.20	2	07/31/13 11:03	
D.W. 8	K1307542-002	ND U	0.20	2	07/31/13 11:13	
D.W. 9	K1307542-003	**1.67**	0.20	2	07/31/13 11:23	
Method Blank	K1307542-MB1	ND U	0.10	1	07/31/13 09:31	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/13
Sample Matrix:	Drinking Water	**Date Received:**	07/30/13
Analysis Method:	335.4	**Units:**	mg/L
Prep Method:	Method	**Basis:**	NA

Cyanide, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
D.W. 6	K1307542-001	ND U	0.010	1	08/06/13 14:16	8/5/13	
D.W. 8	K1307542-002	ND U	0.010	1	08/06/13 14:16	8/5/13	
D.W. 9	K1307542-003	ND U	0.010	1	08/06/13 14:16	8/5/13	
Method Blank	K1307542-MB1	ND U	0.010	1	08/06/13 14:16	8/5/13	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	7/30/2013
Sample Matrix:	Drinking water	**Date Received:**	7/30/2013

Nitrite + Nitrate as Nitrogen

Prep Method:	NONE	Units:	mg/L
Analysis Method:	300.0/300.0	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
D.W. 6	K1307542-001	0.10	2	NA	7/31/2013	ND	
D.W. 8	K1307542-002	0.10	2	NA	7/31/2013	ND	
D.W. 9	K1307542-003	0.10	2	NA	7/31/2013	ND	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/13
Sample Matrix:	Drinking Water	**Date Received:**	07/30/13
Analysis Method:	SM 2120 B	**Units:**	ColorUnits
		Basis:	NA

Color

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
D.W. 6	K1307542-001	ND U	5.0	1	08/01/13 09:46	
D.W. 8	K1307542-002	**10.0**	5.0	1	08/01/13 09:50	
D.W. 9	K1307542-003	**20.0**	5.0	1	08/01/13 09:52	
Method Blank	K1307542-MB1	ND U	5.0	1	08/01/13 09:43	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/13
Sample Matrix:	Drinking Water	**Date Received:**	07/30/13
Analysis Method:	SM 2510 B	**Units:**	uMHOS/cm
		Basis:	NA

Conductivity at 25 Degrees Celsius

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
D.W. 6	K1307542-001	**524**	2.0	1	08/01/13 14:50	
D.W. 8	K1307542-002	**270**	2.0	1	08/01/13 14:50	
D.W. 9	K1307542-003	**186**	2.0	1	08/01/13 14:50	
Method Blank	K1307542-MB1	ND U	2.0	1	08/01/13 14:50	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/13
Sample Matrix:	Drinking Water	**Date Received:**	07/30/13
Analysis Method:	SM 2540 C	**Units:**	mg/L
		Basis:	NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
D.W. 6	K1307542-001	**387**	10	1	08/01/13 15:15	
D.W. 8	K1307542-002	**187**	10	1	08/01/13 15:15	
D.W. 9	K1307542-003	**147**	10	1	08/01/13 15:15	
Method Blank	K1307542-MB1	ND U	5.0	1	08/01/13 15:15	
Method Blank	K1307542-MB2	ND U	10	1	08/01/13 15:15	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/13
Sample Matrix:	Drinking water	**Date Received:**	07/30/13

Hardness as CaCO3

Prep Method:	CLAA	Units:	mg/L (ppm)
Analysis Method:	6010C/SM 2340B	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
D.W. 6	K1307542-001	0.07	1	NA	08/14/13	198	
D.W. 8	K1307542-002	0.07	1	NA	08/14/13	103	
D.W. 9	K1307542-003	0.07	1	NA	08/14/13	73.7	
Method Blank	K1307542-MB	0.07	1	NA	08/14/13	ND	

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INORGANIC ANALYSIS DATA PACKAGE

Client : Longview, City of
Project Name : City of Longview
Project No. : 48100

Service Request : K1307542

Sample Name :	Lab Code :
D.W. 6	K1307542-001
D.W. 8	K1307542-002
D.W. 9	K1307542-003
Method Blank	K1307542-MB

Comments:

ALS Group USA, Corp.
dba ALS Enviromental

Analytical Report

Client :	Longview, City of	**Service Request :**	K1307542
Project Name :	City of Longview	**Date Collected :**	07/30/13
Project No. :	48100	**Date Received :**	07/30/13
Matrix :	Drinking Water	**Date Extracted :**	08/12/13

Total Metals

Sample Name :	D.W. 6	**Units :**	mg/L (ppm)
Lab Code :	K1307542-001	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Antimony	200.8	0.00005	08/14/13	ND	
Arsenic	200.8	0.0005	08/14/13	0.0052	
Barium	200.7	0.0044	08/14/13	0.026	
Beryllium	200.8	0.00002	08/14/13	ND	
Cadmium	200.8	0.00002	08/14/13	ND	
Chromium	200.8	0.0002	08/14/13	0.0012	
Copper	200.7	0.0044	08/14/13	ND	
Iron	200.7	0.022	08/14/13	0.91	
Lead	200.8	0.00002	08/14/13	0.00004	
Manganese	200.7	0.0011	08/14/13	0.809	
Mercury	245.1	0.0002	08/13/13	ND	
Nickel	200.8	0.0002	08/14/13	0.0014	
Selenium	200.8	0.001	08/14/13	ND	
Silver	200.8	0.00002	08/14/13	ND	
Sodium	200.7	0.22	08/14/13	14.8	
Thallium	200.8	0.00002	08/14/13	ND	
Zinc	200.7	0.004	08/14/13	ND	

Comments:

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Analytical Report

Client :	Longview, City of	**Service Request :**	K1307542
Project Name :	City of Longview	**Date Collected :**	07/30/13
Project No. :	48100	**Date Received :**	07/30/13
Matrix :	Drinking Water	**Date Extracted :**	08/12/13

Total Metals

Sample Name :	D.W. 8	**Units :**	mg/L (ppm)
Lab Code :	K1307542-002	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Antimony	200.8	0.00005	08/14/13	ND	
Arsenic	200.8	0.0005	08/14/13	0.0119	
Barium	200.7	0.0044	08/14/13	0.028	
Beryllium	200.8	0.00002	08/14/13	ND	
Cadmium	200.8	0.00002	08/14/13	ND	
Chromium	200.8	0.0002	08/14/13	0.0018	
Copper	200.7	0.0044	08/14/13	ND	
Iron	200.7	0.022	08/14/13	2.11	
Lead	200.8	0.00002	08/14/13	0.00009	
Manganese	200.7	0.0011	08/14/13	0.640	
Mercury	245.1	0.0002	08/13/13	ND	
Nickel	200.8	0.0002	08/14/13	0.0008	
Selenium	200.8	0.001	08/14/13	ND	
Silver	200.8	0.00002	08/14/13	ND	
Sodium	200.7	0.22	08/14/13	12.4	
Thallium	200.8	0.00002	08/14/13	ND	
Zinc	200.7	0.0044	08/14/13	ND	

Comments:

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Analytical Report

Client :	Longview, City of	**Service Request :**	K1307542
Project Name :	City of Longview	**Date Collected :**	07/30/13
Project No. :	48100	**Date Received :**	07/30/13
Matrix :	Drinking Water	**Date Extracted :**	08/12/13

Total Metals

Sample Name :	D.W. 9	**Units :**	mg/L (ppm)
Lab Code :	K1307542-003	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Antimony	200.8	0.00005	08/14/13	ND	
Arsenic	200.8	0.0005	08/14/13	0.0046	
Barium	200.7	0.0044	08/14/13	0.010	
Beryllium	200.8	0.00002	08/14/13	ND	
Cadmium	200.8	0.00002	08/14/13	ND	
Chromium	200.8	0.0002	08/14/13	0.0012	
Copper	200.7	0.0044	08/14/13	ND	
Iron	200.7	0.022	08/14/13	0.59	
Lead	200.8	0.00002	08/14/13	0.00007	
Manganese	200.7	0.0011	08/14/13	0.518	
Mercury	245.1	0.0002	08/13/13	ND	
Nickel	200.8	0.0002	08/14/13	0.0006	
Selenium	200.8	0.001	08/14/13	ND	
Silver	200.8	0.00002	08/14/13	ND	
Sodium	200.7	0.22	08/14/13	8.6	
Thallium	200.8	0.00002	08/14/13	ND	
Zinc	200.7	0.0044	08/14/13	ND	

Comments:

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Analytical Report

Client :	Longview, City of	**Service Request :**	K1307542
Project Name :	City of Longview	**Date Collected :**	NA
Project No. :	48100	**Date Received :**	NA
Matrix :	Drinking Water	**Date Extracted :**	08/12/13

Total Metals

Sample Name :	Method Blank	**Units :**	mg/L (ppm)
Lab Code :	K1307542-MB	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Antimony	200.8	0.00005	08/14/13	ND	
Arsenic	200.8	0.0005	08/14/13	ND	
Barium	200.7	0.0044	08/14/13	ND	
Beryllium	200.8	0.00002	08/14/13	ND	
Cadmium	200.8	0.00002	08/14/13	ND	
Chromium	200.8	0.0002	08/14/13	ND	
Copper	200.7	0.0044	08/14/13	ND	
Iron	200.7	0.022	08/14/13	ND	
Lead	200.8	0.00002	08/14/13	ND	
Manganese	200.7	0.0011	08/14/13	ND	
Mercury	245.1	0.0002	08/13/13	ND	
Nickel	200.8	0.0002	08/14/13	ND	
Selenium	200.8	0.001	08/14/13	ND	
Silver	200.8	0.00002	08/14/13	ND	
Sodium	200.7	0.22	08/14/13	ND	
Thallium	200.8	0.00002	08/14/13	ND	
Zinc	200.7	0.0044	08/14/13	ND	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

EPA Method 504.1

Sample Name:	D.W. 6	**Units:**	ug/L
Lab Code:	K1307542-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0096	1	08/05/13	08/06/13	KWG1307948	
1,2,3-Trichloropropane	ND	U	0.39	1	08/05/13	08/06/13	KWG1307948	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0096	1	08/05/13	08/06/13	KWG1307948	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

EPA Method 504.1

Sample Name:	D.W. 8	**Units:**	ug/L
Lab Code:	K1307542-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0096	1	08/05/13	08/06/13	KWG1307948	
1,2,3-Trichloropropane	ND	U	0.39	1	08/05/13	08/06/13	KWG1307948	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0096	1	08/05/13	08/06/13	KWG1307948	

Comments:

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Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

EPA Method 504.1

Sample Name:	D.W. 9	**Units:**	ug/L
Lab Code:	K1307542-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0095	1	08/05/13	08/06/13	KWG1307948	
1,2,3-Trichloropropane	ND	U	0.39	1	08/05/13	08/06/13	KWG1307948	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0095	1	08/05/13	08/06/13	KWG1307948	

Comments:

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Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

EPA Method 504.1

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1307948-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0099	1	08/05/13	08/06/13	KWG1307948	
1,2,3-Trichloropropane	ND	U	0.40	1	08/05/13	08/06/13	KWG1307948	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0099	1	08/05/13	08/06/13	KWG1307948	

Comments:

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Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Pesticides/PCBs by EPA Method 508.1

Sample Name:	D.W. 6	**Units:**	ug/L
Lab Code:	K1307542-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Aldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide (Isomer A)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDE	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Dieldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Endrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDD	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDT	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Methoxychlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Toxaphene	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Chlordane	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1016	ND	U	0.049	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1221	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1232	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1242	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1248	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1254	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1260	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	101	70-130	08/21/13	Acceptable

Comments:

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Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Pesticides/PCBs by EPA Method 508.1

Sample Name:	D.W. 8	**Units:**	ug/L
Lab Code:	K1307542-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Aldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide (Isomer A)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDE	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Dieldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Endrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDD	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDT	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Methoxychlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Toxaphene	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Chlordane	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1016	ND	U	0.049	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1221	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1232	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1242	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1248	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1254	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1260	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	99	70-130	08/21/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Pesticides/PCBs by EPA Method 508.1

Sample Name:	D.W. 9	**Units:**	ug/L
Lab Code:	K1307542-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Aldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide (Isomer A)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDE	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Dieldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Endrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDD	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDT	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Methoxychlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Toxaphene	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Chlordane	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1016	ND	U	0.049	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1221	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1232	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1242	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1248	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1254	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1260	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	101	70-130	08/21/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Pesticides/PCBs by EPA Method 508.1

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308012-5	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Heptachlor	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Aldrin	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide (Isomer A)	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDE	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Dieldrin	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Endrin	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDD	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDT	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Methoxychlor	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Toxaphene	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Chlordane	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1016	ND	U	0.050	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1221	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1232	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1242	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1248	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1254	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1260	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	99	70-130	08/21/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Chlorinated Herbicides by EPA 515.4

Sample Name:	D.W. 6	**Units:**	ug/L
Lab Code:	K1307542-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	2.0	1	08/08/13	08/09/13	KWG1308150	
3,5-Dichlorobenzoic Acid	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
Dicamba	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Dichlorprop	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
2,4-D	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Pentachlorophenol	ND	U	0.080	1	08/08/13	08/09/13	KWG1308150	
2,4,5-TP (Silvex)	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
2,4,5-T	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
Chloramben	ND	U	0.30	1	08/08/13	08/09/13	KWG1308150	
2,4-DB	ND	U	1.0	1	08/08/13	08/09/13	KWG1308150	
Dinoseb	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
Bentazon	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
Dacthal Diacid	ND	U	0.10	1	08/08/13	08/09/13	KWG1308150	
Picloram	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Acifluorfen	ND	U	2.0	1	08/08/13	08/09/13	KWG1308150	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	107	70-130	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Chlorinated Herbicides by EPA 515.4

Sample Name:	D.W. 8	**Units:**	ug/L
Lab Code:	K1307542-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	2.0	1	08/08/13	08/09/13	KWG1308150	
3,5-Dichlorobenzoic Acid	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
Dicamba	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Dichlorprop	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
2,4-D	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Pentachlorophenol	ND	U	0.080	1	08/08/13	08/09/13	KWG1308150	
2,4,5-TP (Silvex)	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
2,4,5-T	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
Chloramben	ND	U	0.30	1	08/08/13	08/09/13	KWG1308150	
2,4-DB	ND	U	1.0	1	08/08/13	08/09/13	KWG1308150	
Dinoseb	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
Bentazon	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
Dacthal Diacid	ND	U	0.10	1	08/08/13	08/09/13	KWG1308150	
Picloram	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Acifluorfen	ND	U	2.0	1	08/08/13	08/09/13	KWG1308150	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	106	70-130	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Chlorinated Herbicides by EPA 515.4

Sample Name:	D.W. 9	**Units:**	ug/L
Lab Code:	K1307542-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	2.0	1	08/08/13	08/09/13	KWG1308150	
3,5-Dichlorobenzoic Acid	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
Dicamba	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Dichlorprop	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
2,4-D	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Pentachlorophenol	ND	U	0.080	1	08/08/13	08/09/13	KWG1308150	
2,4,5-TP (Silvex)	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
2,4,5-T	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
Chloramben	ND	U	0.30	1	08/08/13	08/09/13	KWG1308150	
2,4-DB	ND	U	1.0	1	08/08/13	08/09/13	KWG1308150	
Dinoseb	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
Bentazon	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
Dacthal Diacid	ND	U	0.10	1	08/08/13	08/09/13	KWG1308150	
Picloram	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Acifluorfen	ND	U	2.0	1	08/08/13	08/09/13	KWG1308150	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	109	70-130	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Chlorinated Herbicides by EPA 515.4

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308150-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	2.0	1	08/08/13	08/09/13	KWG1308150	
3,5-Dichlorobenzoic Acid	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
Dicamba	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Dichlorprop	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
2,4-D	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Pentachlorophenol	ND	U	0.080	1	08/08/13	08/09/13	KWG1308150	
2,4,5-TP (Silvex)	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
2,4,5-T	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
Chloramben	ND	U	0.30	1	08/08/13	08/09/13	KWG1308150	
2,4-DB	ND	U	1.0	1	08/08/13	08/09/13	KWG1308150	
Dinoseb	ND	U	0.40	1	08/08/13	08/09/13	KWG1308150	
Bentazon	ND	U	0.50	1	08/08/13	08/09/13	KWG1308150	
Dacthal Diacid	ND	U	0.10	1	08/08/13	08/09/13	KWG1308150	
Picloram	ND	U	0.20	1	08/08/13	08/09/13	KWG1308150	
Acifluorfen	ND	U	2.0	1	08/08/13	08/09/13	KWG1308150	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	106	70-130	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Volatile Organic Compounds

Sample Name:	D.W. 6	**Units:**	ug/L
Lab Code:	K1307542-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Vinyl Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichlorofluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methylene Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Carbon Tetrachloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Benzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromodichloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Toluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Tetrachloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Ethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Styrene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
m,p-Xylenes	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Volatile Organic Compounds

Sample Name:	D.W. 6	**Units:**	ug/L
Lab Code:	K1307542-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromoform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Isopropylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Propylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3,5-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
4-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
tert-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
sec-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
p-Isopropyltoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,4-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Hexachlorobutadiene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Naphthalene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Volatile Organic Compounds

Sample Name:	D.W. 6	**Units:**	ug/L
Lab Code:	K1307542-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	90	70-130	08/09/13	Acceptable
Dibromofluoromethane	100	82-124	08/09/13	Acceptable
Toluene-d8	90	82-124	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Volatile Organic Compounds

Sample Name:	D.W. 8	**Units:**	ug/L
Lab Code:	K1307542-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Vinyl Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichlorofluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methylene Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Carbon Tetrachloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Benzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromodichloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Toluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Tetrachloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Ethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Styrene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
m,p-Xylenes	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Volatile Organic Compounds

Sample Name:	D.W. 8	**Units:**	ug/L
Lab Code:	K1307542-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromoform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Isopropylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Propylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3,5-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
4-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
tert-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
sec-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
p-Isopropyltoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,4-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Hexachlorobutadiene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Naphthalene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Volatile Organic Compounds

Sample Name:	D.W. 8	**Units:**	ug/L
Lab Code:	K1307542-002	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	90	70-130	08/09/13	Acceptable
Dibromofluoromethane	100	82-124	08/09/13	Acceptable
Toluene-d8	89	82-124	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Volatile Organic Compounds

Sample Name:	D.W. 9	**Units:**	ug/L
Lab Code:	K1307542-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Vinyl Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichlorofluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methylene Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Carbon Tetrachloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Benzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromodichloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Toluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Tetrachloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Ethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Styrene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
m,p-Xylenes	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Volatile Organic Compounds

Sample Name:	D.W. 9	**Units:**	ug/L
Lab Code:	K1307542-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromoform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Isopropylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Propylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3,5-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
4-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
tert-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
sec-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
p-Isopropyltoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,4-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Hexachlorobutadiene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Naphthalene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Volatile Organic Compounds

Sample Name:	D.W. 9	**Units:**	ug/L
Lab Code:	K1307542-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	89	70-130	08/09/13	Acceptable
Dibromofluoromethane	99	82-124	08/09/13	Acceptable
Toluene-d8	89	82-124	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308285-2	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Vinyl Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichlorofluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methylene Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Carbon Tetrachloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Benzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromodichloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Toluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Tetrachloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Ethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Styrene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
m,p-Xylenes	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308285-2	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromoform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Isopropylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Propylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3,5-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
4-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
tert-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
sec-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
p-Isopropyltoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,4-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Hexachlorobutadiene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Naphthalene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308285-2	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	92	70-130	08/09/13	Acceptable
Dibromofluoromethane	99	82-124	08/09/13	Acceptable
Toluene-d8	91	82-124	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Semivolatile Organics by EPA Method 525.2

Sample Name:	D.W. 6	**Units:**	ug/L
Lab Code:	K1307542-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	08/06/13	08/26/13	KWG1308017	
Fluorene	ND	U	0.049	1	08/06/13	08/26/13	KWG1308017	
Propachlor	ND	U	0.074	1	08/06/13	08/26/13	KWG1308017	
Hexachlorobenzene	ND	U	0.098	1	08/06/13	08/26/13	KWG1308017	
Simazine	ND	U	0.049	1	08/06/13	08/26/13	KWG1308017	
Atrazine	ND	U	0.098	1	08/06/13	08/26/13	KWG1308017	
Metribuzin	ND	U	0.20	1	08/06/13	08/26/13	KWG1308017	
Alachlor	ND	U	0.070	1	08/06/13	08/26/13	KWG1308017	
Bromacil	ND	U	0.20	1	08/06/13	08/26/13	KWG1308017	
Metolachlor	ND	U	0.088	1	08/06/13	08/26/13	KWG1308017	
Butachlor	ND	U	0.051	1	08/06/13	08/26/13	KWG1308017	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	08/06/13	08/26/13	KWG1308017	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	08/06/13	08/26/13	KWG1308017	
Benzo(a)pyrene	ND	U	0.020	1	08/06/13	08/26/13	KWG1308017	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	97	70-130	08/26/13	Acceptable
Triphenyl Phosphate	104	70-130	08/26/13	Acceptable
Perylene-d12	83	70-130	08/26/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Semivolatile Organics by EPA Method 525.2

Sample Name:	D.W. 8	**Units:**	ug/L
Lab Code:	K1307542-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	08/06/13	08/26/13	KWG1308017	
Fluorene	ND	U	0.049	1	08/06/13	08/26/13	KWG1308017	
Propachlor	ND	U	0.074	1	08/06/13	08/26/13	KWG1308017	
Hexachlorobenzene	ND	U	0.098	1	08/06/13	08/26/13	KWG1308017	
Simazine	ND	U	0.049	1	08/06/13	08/26/13	KWG1308017	
Atrazine	ND	U	0.098	1	08/06/13	08/26/13	KWG1308017	
Metribuzin	ND	U	0.20	1	08/06/13	08/26/13	KWG1308017	
Alachlor	ND	U	0.070	1	08/06/13	08/26/13	KWG1308017	
Bromacil	ND	U	0.20	1	08/06/13	08/26/13	KWG1308017	
Metolachlor	ND	U	0.088	1	08/06/13	08/26/13	KWG1308017	
Butachlor	ND	U	0.051	1	08/06/13	08/26/13	KWG1308017	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	08/06/13	08/26/13	KWG1308017	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	08/06/13	08/26/13	KWG1308017	
Benzo(a)pyrene	ND	U	0.020	1	08/06/13	08/26/13	KWG1308017	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	102	70-130	08/26/13	Acceptable
Triphenyl Phosphate	109	70-130	08/26/13	Acceptable
Perylene-d12	73	70-130	08/26/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Semivolatile Organics by EPA Method 525.2

Sample Name:	D.W. 9	**Units:**	ug/L
Lab Code:	K1307542-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	08/06/13	08/26/13	KWG1308017	
Fluorene	ND	U	0.049	1	08/06/13	08/26/13	KWG1308017	
Propachlor	ND	U	0.074	1	08/06/13	08/26/13	KWG1308017	
Hexachlorobenzene	ND	U	0.098	1	08/06/13	08/26/13	KWG1308017	
Simazine	ND	U	0.049	1	08/06/13	08/26/13	KWG1308017	
Atrazine	ND	U	0.098	1	08/06/13	08/26/13	KWG1308017	
Metribuzin	ND	U	0.20	1	08/06/13	08/26/13	KWG1308017	
Alachlor	ND	U	0.070	1	08/06/13	08/26/13	KWG1308017	
Bromacil	ND	U	0.20	1	08/06/13	08/26/13	KWG1308017	
Metolachlor	ND	U	0.088	1	08/06/13	08/26/13	KWG1308017	
Butachlor	ND	U	0.051	1	08/06/13	08/26/13	KWG1308017	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	08/06/13	08/26/13	KWG1308017	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	08/06/13	08/26/13	KWG1308017	
Benzo(a)pyrene	ND	U	0.020	1	08/06/13	08/26/13	KWG1308017	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	107	70-130	08/26/13	Acceptable
Triphenyl Phosphate	111	70-130	08/26/13	Acceptable
Perylene-d12	66	70-130	08/26/13	Outside Control Limits

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Semivolatile Organics by EPA Method 525.2

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308017-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.10	1	08/06/13	08/27/13	KWG1308017	
Fluorene	ND	U	0.050	1	08/06/13	08/27/13	KWG1308017	
Propachlor	ND	U	0.076	1	08/06/13	08/27/13	KWG1308017	
Hexachlorobenzene	ND	U	0.10	1	08/06/13	08/27/13	KWG1308017	
Simazine	ND	U	0.050	1	08/06/13	08/27/13	KWG1308017	
Atrazine	ND	U	0.10	1	08/06/13	08/27/13	KWG1308017	
Metribuzin	ND	U	0.20	1	08/06/13	08/27/13	KWG1308017	
Alachlor	ND	U	0.072	1	08/06/13	08/27/13	KWG1308017	
Bromacil	ND	U	0.20	1	08/06/13	08/27/13	KWG1308017	
Metolachlor	ND	U	0.090	1	08/06/13	08/27/13	KWG1308017	
Butachlor	ND	U	0.052	1	08/06/13	08/27/13	KWG1308017	
Bis(2-ethylhexyl) Adipate	ND	U	0.60	1	08/06/13	08/27/13	KWG1308017	
Bis(2-ethylhexyl) Phthalate	ND	U	0.60	1	08/06/13	08/27/13	KWG1308017	
Benzo(a)pyrene	ND	U	0.020	1	08/06/13	08/27/13	KWG1308017	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	101	70-130	08/27/13	Acceptable
Triphenyl Phosphate	104	70-130	08/27/13	Acceptable
Perylene-d12	87	70-130	08/27/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Longview, City of
Project: City of Longview/48100
Sample Matrix: Drinking water

Service Request: K1307542

Surrogate Recovery Summary
Semivolatile Organics by EPA Method 525.2

Extraction Method: METHOD
Analysis Method: 525.2

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3	
D.W. 6	K1307542-001	97	104	83	
D.W. 8	K1307542-002	102	109	73	
D.W. 9	K1307542-003	107	111	66	*
Method Blank	KWG1308017-3	101	104	87	
D.W. 6MS	KWG1308017-2	102	117	85	
Lab Control Sample	KWG1308017-1	95	113	92	

Surrogate Recovery Control Limits (%)

Sur1	=	1,3-Dimethyl-2-nitrobenzene	70-130
Sur2	=	Triphenyl Phosphate	70-130
Sur3	=	Perylene-d12	70-130

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Extracted:**	08/06/2013
Sample Matrix:	Drinking water	**Date Analyzed:**	08/26/2013

Matrix Spike Summary
Semivolatile Organics by EPA Method 525.2

Sample Name:	D.W. 6	**Units:**	ug/L
Lab Code:	K1307542-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2	**Extraction Lot:**	KWG1308017

		D.W. 6MS KWG1308017-2 Matrix Spike			
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Hexachlorocyclopentadiene	ND	0.811	0.971	84	70-130
Fluorene	ND	0.982	0.971	101	70-130
Propachlor	ND	1.04	0.971	107	70-130
Hexachlorobenzene	ND	1.01	0.971	104	70-130
Simazine	ND	1.04	0.971	107	70-130
Atrazine	ND	0.993	0.971	102	70-130
Metribuzin	ND	1.06	0.971	109	70-130
Alachlor	ND	1.08	0.971	111	70-130
Bromacil	ND	1.21	0.971	124	70-130
Metolachlor	ND	1.06	0.971	109	70-130
Butachlor	ND	1.01	0.971	104	70-130
Bis(2-ethylhexyl) Adipate	ND	1.05	0.971	108	70-130
Bis(2-ethylhexyl) Phthalate	ND	1.10	0.971	114	70-130
Benzo(a)pyrene	ND	0.384	0.971	40 *	70-130

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.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Extracted:**	08/06/2013
Sample Matrix:	Drinking water	**Date Analyzed:**	08/27/2013

Lab Control Spike Summary
Semivolatile Organics by EPA Method 525.2

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	525.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1308017

	Lab Control Sample KWG1308017-1 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Hexachlorocyclopentadiene	0.735	1.00	74	70-130
Fluorene	0.975	1.00	98	70-130
Propachlor	0.998	1.00	100	70-130
Hexachlorobenzene	0.968	1.00	97	70-130
Simazine	1.02	1.00	102	70-130
Atrazine	0.967	1.00	97	70-130
Metribuzin	1.08	1.00	108	70-130
Alachlor	0.993	1.00	99	70-130
Bromacil	1.14	1.00	114	70-130
Metolachlor	1.04	1.00	104	70-130
Butachlor	1.01	1.00	101	70-130
Bis(2-ethylhexyl) Adipate	1.03	1.00	103	70-130
Bis(2-ethylhexyl) Phthalate	1.14	1.00	114	70-130
Benzo(a)pyrene	1.01	1.00	101	70-130

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 Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Endothall by EPA Method 548.1

Sample Name:	D.W. 6	**Units:**	ug/L
Lab Code:	K1307542-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	08/01/13	08/09/13	KWG1307788	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Endothall by EPA Method 548.1

Sample Name:	D.W. 8	**Units:**	ug/L
Lab Code:	K1307542-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	08/01/13	08/09/13	KWG1307788	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Endothall by EPA Method 548.1

Sample Name:	D.W. 9	**Units:**	ug/L
Lab Code:	K1307542-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	08/01/13	08/09/13	KWG1307788	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Endothall by EPA Method 548.1

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1307788-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	08/01/13	08/09/13	KWG1307788	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Diquat and Paraquat by EPA Method 549.2

Sample Name:	D.W. 6	**Units:**	ug/L
Lab Code:	K1307542-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	**1.1**		0.40	1	08/06/13	08/14/13	KWG1307988	
Paraquat	**1.5**		0.80	1	08/06/13	08/14/13	KWG1307988	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Diquat and Paraquat by EPA Method 549.2

Sample Name:	D.W. 8	**Units:**	ug/L
Lab Code:	K1307542-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	08/06/13	08/14/13	KWG1307988	
Paraquat	ND	U	0.80	1	08/06/13	08/14/13	KWG1307988	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	07/30/2013
Sample Matrix:	Drinking water	**Date Received:**	07/30/2013

Diquat and Paraquat by EPA Method 549.2

Sample Name:	D.W. 9	**Units:**	ug/L
Lab Code:	K1307542-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	08/06/13	08/14/13	KWG1307988	
Paraquat	ND	U	0.80	1	08/06/13	08/14/13	KWG1307988	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Diquat and Paraquat by EPA Method 549.2

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1307988-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	08/06/13	08/14/13	KWG1307988	
Paraquat	ND	U	0.80	1	08/06/13	08/14/13	KWG1307988	

Comments:

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Extracted:**	08/06/2013
Sample Matrix:	Drinking water	**Date Analyzed:**	08/14/2013

Matrix Spike Summary
Diquat and Paraquat by EPA Method 549.2

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1307603-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2	**Extraction Lot:**	KWG1307988

		Batch QCMS KWG1307988-1 Matrix Spike			
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Diquat	ND	10.4	12.0	86	70-130
Paraquat	ND	11.0	12.0	92	70-130

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.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Longview, City of	**Service Request:**	K1307542
Project:	City of Longview/48100	**Date Extracted:**	08/06/2013
Sample Matrix:	Drinking water	**Date Analyzed:**	08/14/2013

Lab Control Spike Summary
Diquat and Paraquat by EPA Method 549.2

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	549.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1307988

	Lab Control Sample KWG1307988-3 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Diquat	11.6	12.0	97	70-130
Paraquat	10.3	12.0	86	70-130

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.

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Laboratory Report

for

ALS Environmental
1317 S. 13th Avenue
Kelso, WA 98626
Attention: Chris Leaf

Date of Issue
08/15/2013
EUROFINS EATON
ANALYTICAL

01114CA

Report: 443455
Project: SUBCONTRACT
Group: SOCs

DST: David S Tripp

Project Manager

Laboratory certifies that the test results meet all **TNI NELAP** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

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formerly MWH Laboratories

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nevada**	CA00006-2012-1
Arkansas	Certified	**New Hampshire**	2959
California – NELAP	01114CA	**New Jersey**	CA 008
California – ELAP	1422	**New Mexico**	Certified
Colorado	Certified	**New York**	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida	E871024	**Oregon**	CA 200003-011
Georgia	947	**Pennsylvania**	68-565
Guam	12-006r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016001
Idaho	Certified	**South Dakota**	Certified
Illinois	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas**	T104704230-12-4
Kansas	E-10268	**Utah**	CA000062013
Kentucky	90107	**Vermont**	VT0114
Louisiana	LA130008	**Virginia**	00210
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified

NELAP/TNI Recognized Accreditation Bodies - in 'BLUE'

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Acknowledgement of Samples Received

Addr: **ALS Environmental**
1317 S. 13th Avenue
Kelso, WA 98626

Client ID: COLUMBIA-WA
Folder #: 443455
Project: SUBCONTRACT
Sample Group: SOCs

Attn: Chris Leaf
Phone: 360-577-7222

Project Manager: David S Tripp
Phone: (626) 386-1158
PO #: K1307542

The following samples were received from you on **August 01, 2013**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID		Sample Date
201308010589	D.W.6		07/30/2013 1400
	Variable ID: K1307542-001		
	@ML531.2	Glyphosate	
201308010590	D.W.8		07/30/2013 1125
	Variable ID: K1307542-002		
	@ML531.2	Glyphosate	
201308010591	D.W.9		07/30/2013 1010
	Variable ID: K1307542-003		
	@ML531.2	Glyphosate	

Test Description

@ML531.2 -- Aldicarbs

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ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Chris Leaf

443455

Project Number: K1307542
Project Manager: Chris Leaf

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	CARBAM 531.1	GLYPH 547
K1307542-001	D.W. 6	2	Drinking Water	7/30/13	1400	Eurofins (MWH Lab	X	X
K1307542-002	D.W. 8	2	Drinking Water	7/30/13	1125	Eurofins (MWH Lab	X	X
K1307542-003	D.W. 9	2	Drinking Water	7/30/13	1010	Eurofins (MWH Lab	X	X

temp. 3.2 on ice

72

Test Comments

CARBAM - 531.1	K1307542-001,2,3	INSECT1 TEST PANEL
GLYPH - 547	K1307542-001,2,3	GLYPH TEST PANEL

Special Instructions/Comments

Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com.

NO WA DOH report req'd.

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements

____ **RUSH** (Surcharges Apply)

PLEASE CIRCLE WORK DAYS

1 2 3 4 5

✓ **STANDARD**

Requested FAX Date: _____

Requested Report Date: 08/16/13

Report Requirements

✓ I. Results Only

____ II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

PQL/MDL/J N

EDD N

Invoice Information

PO# K1307542 ✓

Bill to

Relinquished By: 7/31/13 1300 Received By: 8/1/13 1023 Airbill Number:

K1307542

_____ **Ship To: Eurofins (MWH Labs)**
Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia, CA 91016-3629

PC _____ Date 7/31/13
SMO _____ Date 7/31/13

Instructions:

Ice ✓
Dry Ice _____
No Ice _____

Shipping:

Overnight ✓
2nd Day _____
Ground _____

Bill to Client Account _____

Comments:

ALS Group USA, Corp.
www.alsglobal.com
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Laboratory Comments
Report: 443455

ALS Environmental
Chris Leaf
1317 S. 13th Avenue
Kelso, WA 98626

Folder Comments

Report revised to remove an extraneous page from the COC - 081513dst.

Flags Legend:

Q5 - Sample received with inadequate chemical preservation, but preserved by the laboratory.

The Comments Report may be blank if there are no comments for this report.

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Laboratory Hits
Report: 443455

ALS Environmental
Chris Leaf
1317 S. 13th Avenue
Kelso, WA 98626

Samples Received on:
08/01/2013

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

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Laboratory Data
Report: 443455

ALS Environmental
Chris Leaf
1317 S. 13th Avenue
Kelso, WA 98626

Samples Received on:
08/01/2013

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
D.W.6 (201308010589)						**Sampled on 07/30/2013 1400**		
Variable ID: K1307542-001								
	EPA 547 - Glyphosate							
	08/05/2013 21:20	720201	(EPA 547)	Glyphosate	ND	ug/L	6	1
	EPA 531.2 - Aldicarbs							
	08/06/2013 22:58	720496	(EPA 531.2)	3-Hydroxycarbofuran	ND (Q5)	ug/L	0.5	1
	08/06/2013 22:58	720496	(EPA 531.2)	Aldicarb (Temik)	ND (Q5)	ug/L	0.5	1
	08/06/2013 22:58	720496	(EPA 531.2)	Aldicarb sulfone	ND (Q5)	ug/L	0.5	1
	08/06/2013 22:58	720496	(EPA 531.2)	Aldicarb sulfoxide	ND (Q5)	ug/L	0.5	1
	08/06/2013 22:58	720496	(EPA 531.2)	Baygon	ND (Q5)	ug/L	0.5	1
	08/06/2013 22:58	720496	(EPA 531.2)	Carbaryl	ND (Q5)	ug/L	0.5	1
	08/06/2013 22:58	720496	(EPA 531.2)	Carbofuran (Furadan)	ND (Q5)	ug/L	0.5	1
	08/06/2013 22:58	720496	(EPA 531.2)	Methiocarb	ND (Q5)	ug/L	0.5	1
	08/06/2013 22:58	720496	(EPA 531.2)	Methomyl	ND (Q5)	ug/L	0.5	1
	08/06/2013 22:58	720496	(EPA 531.2)	Oxamyl (Vydate)	ND (Q5)	ug/L	0.5	1
	08/06/2013 22:58	720496	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	92 (Q5)	%		1
D.W.8 (201308010590)						**Sampled on 07/30/2013 1125**		
Variable ID: K1307542-002								
	EPA 547 - Glyphosate							
	08/05/2013 21:30	720201	(EPA 547)	Glyphosate	ND	ug/L	6	1
	EPA 531.2 - Aldicarbs							
	08/06/2013 23:35	720496	(EPA 531.2)	3-Hydroxycarbofuran	ND (Q5)	ug/L	0.5	1
	08/06/2013 23:35	720496	(EPA 531.2)	Aldicarb (Temik)	ND (Q5)	ug/L	0.5	1
	08/06/2013 23:35	720496	(EPA 531.2)	Aldicarb sulfone	ND (Q5)	ug/L	0.5	1
	08/06/2013 23:35	720496	(EPA 531.2)	Aldicarb sulfoxide	ND (Q5)	ug/L	0.5	1
	08/06/2013 23:35	720496	(EPA 531.2)	Baygon	ND (Q5)	ug/L	0.5	1
	08/06/2013 23:35	720496	(EPA 531.2)	Carbaryl	ND (Q5)	ug/L	0.5	1
	08/06/2013 23:35	720496	(EPA 531.2)	Carbofuran (Furadan)	ND (Q5)	ug/L	0.5	1
	08/06/2013 23:35	720496	(EPA 531.2)	Methiocarb	ND (Q5)	ug/L	0.5	1
	08/06/2013 23:35	720496	(EPA 531.2)	Methomyl	ND (Q5)	ug/L	0.5	1
	08/06/2013 23:35	720496	(EPA 531.2)	Oxamyl (Vydate)	ND (Q5)	ug/L	0.5	1
	08/06/2013 23:35	720496	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	82 (Q5)	%		1
D.W.9 (201308010591)						**Sampled on 07/30/2013 1010**		
Variable ID: K1307542-003								
	EPA 547 - Glyphosate							
	08/07/2013 13:35	720643	(EPA 547)	Glyphosate	ND	ug/L	6	1

Rounding on totals after summation.
(c) - indicates calculated results

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Laboratory Data
Report: 443455

ALS Environmental
Chris Leaf
1317 S. 13th Avenue
Kelso, WA 98626

Samples Received on:
08/01/2013

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	EPA 531.2 - Aldicarbs							
	08/07/2013 00:11	720496	(EPA 531.2)	3-Hydroxycarbofuran	ND (Q5)	ug/L	0.5	1
	08/07/2013 00:11	720496	(EPA 531.2)	Aldicarb (Temik)	ND (Q5)	ug/L	0.5	1
	08/07/2013 00:11	720496	(EPA 531.2)	Aldicarb sulfone	ND (Q5)	ug/L	0.5	1
	08/07/2013 00:11	720496	(EPA 531.2)	Aldicarb sulfoxide	ND (Q5)	ug/L	0.5	1
	08/07/2013 00:11	720496	(EPA 531.2)	Baygon	ND (Q5)	ug/L	0.5	1
	08/07/2013 00:11	720496	(EPA 531.2)	Carbaryl	ND (Q5)	ug/L	0.5	1
	08/07/2013 00:11	720496	(EPA 531.2)	Carbofuran (Furadan)	ND (Q5)	ug/L	0.5	1
	08/07/2013 00:11	720496	(EPA 531.2)	Methiocarb	ND (Q5)	ug/L	0.5	1
	08/07/2013 00:11	720496	(EPA 531.2)	Methomyl	ND (Q5)	ug/L	0.5	1
	08/07/2013 00:11	720496	(EPA 531.2)	Oxamyl (Vydate)	ND (Q5)	ug/L	0.5	1
	08/07/2013 00:11	720496	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	85 (Q5)	%		1

Rounding on totals after summation.
(c) - indicates calculated results

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QC Ref # 720201 - Glyphosate — **Analysis Date: 08/05/2013**

201308010589	D.W.6	Analyzed by: DYM
201308010590	D.W.8	Analyzed by: DYM

QC Ref # 720496 - Aldicarbs — **Analysis Date: 08/06/2013**

201308010589	D.W.6	Analyzed by: XWO
201308010590	D.W.8	Analyzed by: XWO
201308010591	D.W.9	Analyzed by: XWO

QC Ref # 720643 - Glyphosate — **Analysis Date: 08/07/2013**

201308010591	D.W.9	Analyzed by: DYM

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Laboratory QC
Report: 443455

ALS Environmental

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 720201 - Glyphosate by EPA 547						**Analysis Date: 08/05/2013**			
CCCM	Glyphosate		10	9.72	ug/L	97	(80-120)		
LCS1	Glyphosate		10	10.1	ug/L	101	(70-130)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	5.96	ug/L	99	(50-150)		
MS_201307300401	Glyphosate	ND	10	9.72	ug/L	97	(70-130)		
MSD_201307300401	Glyphosate	ND	10	10.0	ug/L	100	(70-130)	20	2.8
QC Ref# 720496 - Aldicarbs by EPA 531.2						**Analysis Date: 08/06/2013**			
CCCH	3-Hydroxycarbofuran		25	24.5	ug/L	98	(70-130)		
CCCM	3-Hydroxycarbofuran		10	9.73	ug/L	97	(70-130)		
LCS1	3-Hydroxycarbofuran		10	10.3	ug/L	103	(70-130)		
MBLK	3-Hydroxycarbofuran			<0.16	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.450	ug/L	90	(50-150)		
MS_201307290265	3-Hydroxycarbofuran	ND	10	9.76	ug/L	98	(70-130)		
MSD_201307290265	3-Hydroxycarbofuran	ND	10	10.3	ug/L	103	(70-130)	20	5.4
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		98.8	%	99	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		92.5	%	92	(70-130)		
LCS1	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		93.7	%	94	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		80.8	%	81	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		88.3	%	88	(70-130)		
MS_201307290265	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		101	%	101	(70-130)		
MSD_201307290265	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(S		101	%	101	(70-130)		
CCCH	Aldicarb (Temik)		25	22.1	ug/L	88	(70-130)		
CCCM	Aldicarb (Temik)		10	8.71	ug/L	87	(70-130)		
LCS1	Aldicarb (Temik)		10	8.78	ug/L	88	(70-130)		
MBLK	Aldicarb (Temik)			<0.16	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.480	ug/L	96	(50-150)		
MS_201307290265	Aldicarb (Temik)	ND	10	10.0	ug/L	100	(70-130)		
MSD_201307290265	Aldicarb (Temik)	ND	10	10.1	ug/L	101	(70-130)	20	1
CCCH	Aldicarb sulfone		25	24.4	ug/L	97	(70-130)		
CCCM	Aldicarb sulfone		10	9.67	ug/L	97	(70-130)		
LCS1	Aldicarb sulfone		10	9.71	ug/L	97	(70-130)		
MBLK	Aldicarb sulfone			<0.16	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.498	ug/L	100	(50-150)		
MS_201307290265	Aldicarb sulfone	ND	10	9.85	ug/L	99	(70-130)		
MSD_201307290265	Aldicarb sulfone	ND	10	9.84	ug/L	99	(70-130)	20	0.0
CCCH	Aldicarb sulfoxide		25	22.2	ug/L	89	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Aldicarb sulfoxide		10	9.14	ug/L	91	(70-130)		
LCS1	Aldicarb sulfoxide		10	9.07	ug/L	91	(70-130)		
MBLK	Aldicarb sulfoxide			<0.16	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.398	ug/L	80	(50-150)		
MS_201307290265	Aldicarb sulfoxide	ND	10	9.83	ug/L	98	(70-130)		
MSD_201307290265	Aldicarb sulfoxide	ND	10	9.88	ug/L	99	(70-130)	20	0.51
CCCH	Baygon		25	24.9	ug/L	100	(70-130)		
CCCM	Baygon		10	9.84	ug/L	99	(70-130)		
LCS1	Baygon		10	10.1	ug/L	101	(70-130)		
MBLK	Baygon			<0.16	ug/L				
MRL_CHK	Baygon		0.5	0.430	ug/L	86	(50-150)		
MS_201307290265	Baygon	ND	10	10.6	ug/L	106	(70-130)		
MSD_201307290265	Baygon	ND	10	10.3	ug/L	103	(70-130)	20	2.9
CCCH	Carbaryl		25	24.4	ug/L	97	(70-130)		
CCCM	Carbaryl		10	9.83	ug/L	98	(70-130)		
LCS1	Carbaryl		10	9.62	ug/L	96	(70-130)		
MBLK	Carbaryl			<0.16	ug/L				
MRL_CHK	Carbaryl		0.5	0.456	ug/L	91	(50-150)		
MS_201307290265	Carbaryl	ND	10	9.79	ug/L	98	(70-130)		
MSD_201307290265	Carbaryl	ND	10	9.81	ug/L	98	(70-130)	20	0.20
CCCH	Carbofuran (Furadan)		25	25.1	ug/L	101	(70-130)		
CCCM	Carbofuran (Furadan)		10	9.97	ug/L	100	(70-130)		
LCS1	Carbofuran (Furadan)		10	9.84	ug/L	98	(70-130)		
MBLK	Carbofuran (Furadan)			<0.16	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.519	ug/L	104	(50-150)		
MS_201307290265	Carbofuran (Furadan)	ND	10	10.3	ug/L	103	(70-130)		
MSD_201307290265	Carbofuran (Furadan)	ND	10	10.2	ug/L	102	(70-130)	20	0.98
CCCH	Methiocarb		25	25.4	ug/L	102	(70-130)		
CCCM	Methiocarb		10	9.95	ug/L	100	(70-130)		
LCS1	Methiocarb		10	10.2	ug/L	102	(70-130)		
MBLK	Methiocarb			<0.16	ug/L				
MRL_CHK	Methiocarb		0.5	0.314	ug/L	63	(50-150)		
MS_201307290265	Methiocarb	ND	10	10.4	ug/L	104	(70-130)		
MSD_201307290265	Methiocarb	ND	10	10.7	ug/L	107	(70-130)	20	2.8
CCCH	Methomyl		25	23.0	ug/L	92	(70-130)		
CCCM	Methomyl		10	9.23	ug/L	92	(70-130)		
LCS1	Methomyl		10	9.34	ug/L	93	(70-130)		
MBLK	Methomyl			<0.16	ug/L				

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory QC
Report: 443455

ALS Environmental

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Methomyl		0.5	0.319	ug/L	64	(50-150)		
MS_201307290265	Methomyl	ND	10	10.1	ug/L	101	(70-130)		
MSD_201307290265	Methomyl	ND	10	10.1	ug/L	101	(70-130)	20	0.0
CCCH	Oxamyl (Vydate)		25	24.8	ug/L	99	(70-130)		
CCCM	Oxamyl (Vydate)		10	9.20	ug/L	92	(70-130)		
LCS1	Oxamyl (Vydate)		10	9.37	ug/L	94	(70-130)		
MBLK	Oxamyl (Vydate)			<0.16	ug/L				
MRL_CHK	Oxamyl (Vydate)		0.5	0.469	ug/L	94	(50-150)		
MS_201307290265	Oxamyl (Vydate)	ND	10	10.2	ug/L	102	(70-130)		
MSD_201307290265	Oxamyl (Vydate)	ND	10	9.04	ug/L	90	(70-130)	20	12
QC Ref# 720643 - Glyphosate by EPA 547						**Analysis Date: 08/07/2013**			
CCCH	Glyphosate		25	22.3	ug/L	89	(80-120)		
CCCM	Glyphosate		10	8.81	ug/L	88	(80-120)		
LCS1	Glyphosate		10	9.03	ug/L	90	(70-130)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	5.58	ug/L	93	(50-150)		
MS_201308010307	Glyphosate	ND	10	8.62	ug/L	86	(70-130)		
MS2_201308020183	Glyphosate	ND	10	9.00	ug/L	90	(70-130)		
MSD_201308010307	Glyphosate	ND	10	8.96	ug/L	90	(70-130)	20	4.0

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
(I) - Indicates internal standard compound.

October 29, 2013

Analytical Report for Service Request No: K1307603
Revised Service Request No: K1307603.01

Jeff Coleman
Longview, City of
W/S Operation Center
P.O. Box 128
Longview, WA 98632

RE: Sentinel Well Program

Dear Jeff:

Enclosed are the results of the samples submitted to our laboratory on July 31, 2013. For your reference, these analyses have been assigned our service request number K1307603.

Per request by Amy Blain, the results for EPA Method 525.2 have been reviewed. The updated results where applicable are provided in this revision which supersedes the report dated September 5, 2013.

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.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. 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.

We apologize for any inconvenience this may have created.

Please call if you have any questions. My extension is 3275. You may also contact me via Email at Chris.Leaf@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Chris Leaf
Project Manager

REVISED
12:01 pm, Oct 30, 2013

CL

ADDRESS 1317 S. 13th Avenue, Kelso, WA 98626 USA | PHONE +1 360 577 7222 | FAX +1 360 636 1068
ALS Group USA, Corp. Part of the ALS Group An ALS Limited Company

Environmental 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.

ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2286
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L12-28
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Georgia DNR	http://www.gaepd.org/Documents/techguide_pcb.html#cel	881
Hawaii DOH	Not available	-
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	-
Indiana DOH	http://www.in.gov/isdh/24859.htm	C-WA-01
ISO 17025	http://www.pjlabs.com/	L12-27
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	3016
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
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA200001
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	4704427-08-TX
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C1203
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	-
Kelso Laboratory Website	www.alsglobal.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/anlayte is offered by that state.

ALS ENVIRONMENTAL

Client:	Longview, City of	**Service Request No.:**	K1307603.01
Project:	Sentinel Well Program	**Date Received:**	07/31/13
Sample Matrix:	Drinking 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 I data deliverables. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Four drinking water samples were received for analysis at ALS Environmental on 07/31/13. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4ºC upon receipt at the laboratory.

General Chemistry Parameters

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

Total Metals

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

EDB and DBCP by EPA Method 504.1

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

Pesticides and Polychlorinated Biphenyls by EPA Method 508.1

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

Chlorinated Acides by EPA Method 515.4

Second Source Exceptions:
The analysis of Chlorinated Herbicides by EPA 515.4 requires the use of dual column confirmation. When the Initial Calibration Verification (ICV) criteria are met for both columns, the lower of the two sample results is generally reported. The criteria was not met for Dacthal Diacid and Picloram on one column in CAL12684. The data quality was not affected. No further corrective action was necessary.

Calibration Verification Exceptions:
The analysis of Chlorinated Herbicides by EPA 515.4 requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the lower of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Bentazon in closing CCV file 08080039. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

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

Approved by_____

REVISED
12:00 pm, Oct 30, 2013

Volatile Organic Compounds by EPA Method 524.2

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

Semivolatile Organic Compounds by EPA Method 525.2

Matrix Spike Sample Exceptions:
The matrix spike recovery of Benzo(a)pyrene for sample Batch QC was outside control criteria. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential low bias in this matrix. No further corrective action was appropriate.

The Benzo(a)pyrene results have been corrected in this revision. A calculation error was noted after a thorough review of the data. The original results were quantitated against a quadratic curve. When area counts are below or above the calibration curve levels the software will calculate erroneous results. This occurred with this data and was not identified during initial data review. The updated report including full quality control results are included in this revision.

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

Endothall by EPA Method 548.1

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

Diquat by High Performance Liquid Chromatography

Sample Notes and Discussion:
The upper control criterion was exceeded for Diquat and Paraquat in the MRL-level laboratory fortified blank. The advisory criterion is 50-150%. Recovery in the Laboratory Control Sample (LCS) was acceptable. The sample data was not significantly affected. No further corrective action was appropriate.

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

Carbamates by EPA Method 531.1

This analysis was performed at Eurofins Eaton Analytical in Monrovia, CA. The narrative for this analysis can be found in the corresponding section of this data package.

Glyphosate by EPA Method 547

This analysis was performed at Eurofins Eaton Analytical in Monrovia, CA. The narrative for this analysis can be found in the corresponding section of this data package.

Approved by_____

REVISED
12:00 pm, Oct 30, 2013

ALS Environmental

CHAIN OF CUSTODY

SR# [illegible]

1317 South 13th Ave., Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE ____ OF ____ COC# ____

PROJECT NAME: Sentinel Well Program
PROJECT NUMBER:
PROJECT MANAGER: Jeff Coleman
COMPANY NAME: City of Longview
ADDRESS: PO Box 128
CITY/STATE/ZIP: Longview WA 98632
E-MAIL ADDRESS:
PHONE #: FAX #:
SAMPLER'S SIGNATURE: Thomas Daly

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐ SIM PAH☐	Volatile Organics 24☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCBs Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081☐ 8141☐ 8151☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	Metals, Total or Dissolved (See List below)	Cyanide☐ Hex-Chrom☐	(circle) pH, Cond., Cl, SO_4, PO_4, NO_3, NO_2 BOD, TSS, TDS, Turb	(circle) NH_3-N, COD, TKN, TOC, DOC, NO_2+NO_3, T-Phos	TOX 9020☐ AOX 1650☐ 506☐	Alkalinity ☐ CO_3☐ HCO_3☐	Dioxins/Furans 1613☐ 8290☐	Dissolved Gases RSK 175☐ Methane☐ Ethane☐ Ethene☐ CO_2☐				REMARKS
DW 2	7/31/13	1140			16																			
DW 5	7/31/13	1[illegible]			16																			
DW 1	7/31/13	1510			16																			
Temp Blank		~~1510~~																						
Blanks																								

REPORT REQUIREMENTS

____ I. Routine Report: Method Blank, Surrogate, as required
____ II. Report Dup., MS, MSD as required
____ III. CLP Like Summary (no raw data)
____ IV. Data Validation Report
____ V. EDD

INVOICE INFORMATION

P.O. # 36-4184
Bill To: City of Longview
PO Box 128
Longview WA 98632

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 day
____ Standard (15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: ____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Do Not Report

Log as per Sample Collection Supply List

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Signature: T Daly	Date/Time: 7/31/13 1610	Signature: [illegible]	Date/Time: 7/31/13 1625	Signature:	Date/Time:	Signature:	Date/Time:
Printed Name: T Daly	Firm: COL	Printed Name: T Smith	Firm: ALS	Printed Name:	Firm:	Printed Name:	Firm:

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PC CL

Cooler Receipt and Preservation Form

Client / Project: City of Longview Service Request *K13* 7603

Received: 7/31/13 Opened: 7/31/13 By: KO Unloaded: 7/31/13 By: KO

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

   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Raw Cooler Temp	Corrected. Cooler Temp	Raw Temp Blank	Corrected Temp Blank	Corr. Factor	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
7.7	7.7	—	—	0	337			
7.5	7.5	—	—	0	321			

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

SHORT HOLD TIME

Page ____ *of* ____

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/13
Sample Matrix:	Drinking Water	**Date Received:**	07/31/13
Analysis Method:	180.1	**Units:**	NTU
		Basis:	NA

Turbidity

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW 2	K1307603-001	**1.15**	0.20	1	08/01/13 11:39	
DW 5	K1307603-002	**0.78**	0.20	1	08/01/13 11:40	
DW 1	K1307603-003	**4.79**	0.20	1	08/01/13 11:42	
Method Blank	K1307603-MB1	ND U	0.20	1	08/01/13 11:32	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/13
Sample Matrix:	Drinking Water	**Date Received:**	07/31/13
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Chloride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW 2	K1307603-001	**8.96**	0.40	2	08/01/13 10:28	
DW 5	K1307603-002	**39.3**	2.0	10	08/01/13 11:45	
DW 1	K1307603-003	**4.99**	0.40	2	08/01/13 10:48	
Method Blank	K1307603-MB1	ND U	0.20	1	08/01/13 09:21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/13
Sample Matrix:	Drinking Water	**Date Received:**	07/31/13
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Fluoride

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW 2	K1307603-001	ND U	0.20	2	08/01/13 10:28	
DW 5	K1307603-002	ND U	0.20	2	08/01/13 10:38	
DW 1	K1307603-003	**0.20**	0.20	2	08/01/13 10:48	
Method Blank	K1307603-MB1	ND U	0.10	1	08/01/13 09:21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/13
Sample Matrix:	Drinking Water	**Date Received:**	07/31/13
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Nitrite as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW 2	K1307603-001	ND U	0.10	2	08/01/13 10:28	
DW 5	K1307603-002	ND U	0.10	2	08/01/13 10:38	
DW 1	K1307603-003	ND U	0.10	2	08/01/13 10:48	
Method Blank	K1307603-MB1	ND U	0.050	1	08/01/13 09:21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/13
Sample Matrix:	Drinking Water	**Date Received:**	07/31/13
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Nitrate as Nitrogen

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW 2	K1307603-001	ND U	0.10	2	08/01/13 10:28	
DW 5	K1307603-002	ND U	0.10	2	08/01/13 10:38	
DW 1	K1307603-003	ND U	0.10	2	08/01/13 10:48	
Method Blank	K1307603-MB1	ND U	0.050	1	08/01/13 09:21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/13
Sample Matrix:	Drinking Water	**Date Received:**	07/31/13
Analysis Method:	300.0	**Units:**	mg/L
		Basis:	NA

Sulfate

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW 2	K1307603-001	ND U	0.20	2	08/01/13 10:28	
DW 5	K1307603-002	**0.62**	0.20	2	08/01/13 10:38	
DW 1	K1307603-003	**1.85**	0.20	2	08/01/13 10:48	
Method Blank	K1307603-MB1	ND U	0.10	1	08/01/13 09:21	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/13
Sample Matrix:	Drinking Water	**Date Received:**	07/31/13
Analysis Method:	335.4	**Units:**	mg/L
Prep Method:	Method	**Basis:**	NA

Cyanide, Total

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Date Extracted	Q
DW 2	K1307603-001	ND U	0.010	1	08/06/13 14:16	8/5/13	
DW 5	K1307603-002	ND U	0.010	1	08/06/13 14:16	8/5/13	
DW 1	K1307603-003	ND U	0.010	1	08/06/13 14:16	8/5/13	
Method Blank	K1307603-MB1	ND U	0.010	1	08/06/13 14:16	8/5/13	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	7/31/2013
Sample Matrix:	Drinking water	**Date Received:**	7/31/2013

Nitrite + Nitrate as Nitrogen

Prep Method:	NONE	Units:	mg/L
Analysis Method:	300.0/300.0	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
DW 2	K1307603-001	0.10	2	NA	8/1/2013	ND	
DW 5	K1307603-002	0.10	2	NA	8/1/2013	ND	
DW 1	K1307603-003	0.10	2	NA	8/1/2013	ND	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/13
Sample Matrix:	Drinking Water	**Date Received:**	07/31/13
Analysis Method:	SM 2120 B	**Units:**	ColorUnits
		Basis:	NA

Color

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW 2	K1307603-001	**15.0**	5.0	1	08/01/13 09:54	
DW 5	K1307603-002	**15.0**	5.0	1	08/01/13 09:55	
DW 1	K1307603-003	**25.0**	5.0	1	08/01/13 09:57	
Method Blank	K1307603-MB1	ND U	5.0	1	08/01/13 09:43	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/13
Sample Matrix:	Drinking Water	**Date Received:**	07/31/13
Analysis Method:	SM 2510 B	**Units:**	uMHOS/cm
		Basis:	NA

Conductivity at 25 Degrees Celsius

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW 2	K1307603-001	**279**	2.0	1	08/01/13 14:50	
DW 5	K1307603-002	**320**	2.0	1	08/01/13 14:50	
DW 1	K1307603-003	**176**	2.0	1	08/01/13 14:50	
Method Blank	K1307603-MB1	ND U	2.0	1	08/01/13 14:50	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/13
Sample Matrix:	Drinking Water	**Date Received:**	07/31/13
Analysis Method:	SM 2540 C	**Units:**	mg/L
		Basis:	NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
DW 2	K1307603-001	**197**	10	1	08/06/13 15:45	
DW 5	K1307603-002	**227**	10	1	08/06/13 15:45	
DW 1	K1307603-003	**152**	10	1	08/06/13 15:45	
Method Blank	K1307603-MB1	ND U	10	1	08/06/13 15:45	
Method Blank	K1307603-MB2	ND U	10	1	08/06/13 15:45	

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Analytical Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/13
Sample Matrix:	Drinking water	**Date Received:**	07/31/13

Hardness as CaCO3

Prep Method:	CLAA	Units:	mg/L (ppm)
Analysis Method:	200.7/SM 2340B	Basis:	NA
Test Notes:			

Sample Name	Lab Code	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	Result Notes
DW 2	K1307603-001	0.07	1	NA	08/14/13	110	
DW 5	K1307603-002	0.07	1	NA	08/14/13	128	
DW 1	K1307603-003	0.07	1	NA	08/14/13	69.8	
Method Blank	K1307603-MB	0.07	1	NA	08/14/13	ND	

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- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client : Longview, City of
Project Name : Sentinel Well Program
Project No. : NA

Service Request : K1307603

Sample Name :	Lab Code :
DW 2	K1307603-001
DW 5	K1307603-002
DW 1	K1307603-003
Method Blank	K1307603-MB

Comments:

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Analytical Report

Client :	Longview, City of	**Service Request :**	K1307603
Project Name :	Sentinel Well Program	**Date Collected :**	07/31/13
Project No. :	NA	**Date Received :**	07/31/13
Matrix :	Drinking Water	**Date Extracted :**	08/12/13

Total Metals

Sample Name :	DW 2	**Units :**	mg/L (ppm)
Lab Code :	K1307603-001	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Antimony	200.8	0.00005	08/14/13	ND	
Arsenic	200.8	0.0005	08/14/13	0.0101	
Barium	200.7	0.0044	08/14/13	0.021	
Beryllium	200.8	0.00002	08/14/13	ND	
Cadmium	200.8	0.00002	08/14/13	ND	
Chromium	200.8	0.0002	08/14/13	0.0015	
Copper	200.7	0.0044	08/14/13	ND	
Iron	200.7	0.022	08/14/13	0.51	
Lead	200.8	0.00002	08/14/13	ND	
Manganese	200.7	0.0011	08/14/13	0.288	
Mercury	245.1	0.0002	08/13/13	ND	
Nickel	200.8	0.0002	08/14/13	0.0008	
Selenium	200.8	0.001	08/14/13	ND	
Silver	200.8	0.00002	08/14/13	ND	
Sodium	200.7	0.22	08/14/13	14.2	
Thallium	200.8	0.00002	08/14/13	ND	
Zinc	200.7	0.0044	08/14/13	ND	

Comments:

ALS Group USA, Corp.
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Analytical Report

Client :	Longview, City of	**Service Request :**	K1307603
Project Name :	Sentinel Well Program	**Date Collected :**	07/31/13
Project No. :	NA	**Date Received :**	07/31/13
Matrix :	Drinking Water	**Date Extracted :**	08/12/13

Total Metals

Sample Name :	DW 5	**Units :**	mg/L (ppm)
Lab Code :	K1307603-002	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Antimony	200.8	0.00005	08/14/13	ND	
Arsenic	200.8	0.0005	08/14/13	0.0066	
Barium	200.7	0.0044	08/14/13	0.015	
Beryllium	200.8	0.00002	08/14/13	ND	
Cadmium	200.8	0.00002	08/14/13	ND	
Chromium	200.8	0.0002	08/14/13	0.0011	
Copper	200.7	0.0044	08/14/13	ND	
Iron	200.7	0.022	08/14/13	0.31	
Lead	200.8	0.00002	08/14/13	ND	
Manganese	200.7	0.0011	08/14/13	0.293	
Mercury	245.1	0.0002	08/13/13	ND	
Nickel	200.8	0.0002	08/14/13	0.0009	
Selenium	200.8	0.001	08/14/13	ND	
Silver	200.8	0.00002	08/14/13	ND	
Sodium	200.7	0.22	08/14/13	12.6	
Thallium	200.8	0.00002	08/14/13	ND	
Zinc	200.7	0.0044	08/14/13	ND	

Comments:

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Analytical Report

Client :	Longview, City of	**Service Request :**	K1307603
Project Name :	Sentinel Well Program	**Date Collected :**	07/31/13
Project No. :	NA	**Date Received :**	07/31/13
Matrix :	Drinking Water	**Date Extracted :**	08/12/13

Total Metals

Sample Name :	DW 1	**Units :**	mg/L (ppm)
Lab Code :	K1307603-003	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Antimony	200.8	0.00005	08/14/13	ND	
Arsenic	200.8	0.0005	08/14/13	0.0040	
Barium	200.7	0.0044	08/14/13	0.011	
Beryllium	200.8	0.00002	08/14/13	ND	
Cadmium	200.8	0.00002	08/14/13	ND	
Chromium	200.8	0.0002	08/14/13	0.0008	
Copper	200.7	0.0044	08/14/13	ND	
Iron	200.7	0.022	08/14/13	2.29	
Lead	200.8	0.00002	08/14/13	ND	
Manganese	200.7	0.0011	08/14/13	0.535	
Mercury	245.1	0.0002	08/13/13	ND	
Nickel	200.8	0.0002	08/14/13	0.0006	
Selenium	200.8	0.001	08/14/13	ND	
Silver	200.8	0.00002	08/14/13	ND	
Sodium	200.7	0.22	08/14/13	8.7	
Thallium	200.8	0.00002	08/14/13	ND	
Zinc	200.7	0.0044	08/14/13	ND	

Comments:

ALS Group USA, Corp.
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Analytical Report

Client :	Longview, City of	**Service Request :**	K1307603
Project Name :	Sentinel Well Program	**Date Collected :**	NA
Project No. :	NA	**Date Received :**	NA
Matrix :	Drinking Water	**Date Extracted :**	08/12/13

Total Metals

Sample Name :	Method Blank	**Units :**	mg/L (ppm)
Lab Code :	K1307603-MB	**Basis :**	NA

Analyte	Analysis Method	MRL	Date Analyzed	Sample Result	Result Notes
Antimony	200.8	0.00005	08/14/13	ND	
Arsenic	200.8	0.0005	08/14/13	ND	
Barium	200.7	0.0044	08/14/13	ND	
Beryllium	200.8	0.00002	08/14/13	ND	
Cadmium	200.8	0.00002	08/14/13	ND	
Chromium	200.8	0.0002	08/14/13	ND	
Copper	200.7	0.0044	08/14/13	ND	
Iron	200.7	0.022	08/14/13	ND	
Lead	200.8	0.00002	08/14/13	ND	
Manganese	200.7	0.0011	08/14/13	ND	
Mercury	245.1	0.0002	08/13/13	ND	
Nickel	200.8	0.0002	08/14/13	ND	
Selenium	200.8	0.001	08/14/13	ND	
Silver	200.8	0.00002	08/14/13	ND	
Sodium	200.7	0.22	08/14/13	ND	
Thallium	200.8	0.00002	08/14/13	ND	
Zinc	200.7	0.0044	08/14/13	ND	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

EPA Method 504.1

Sample Name:	DW 2	**Units:**	ug/L
Lab Code:	K1307603-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0097	1	08/05/13	08/06/13	KWG1307948	
1,2,3-Trichloropropane	ND	U	0.40	1	08/05/13	08/06/13	KWG1307948	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0097	1	08/05/13	08/06/13	KWG1307948	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

EPA Method 504.1

Sample Name:	DW 5	**Units:**	ug/L
Lab Code:	K1307603-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0096	1	08/05/13	08/06/13	KWG1307948	
1,2,3-Trichloropropane	ND	U	0.39	1	08/05/13	08/06/13	KWG1307948	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0096	1	08/05/13	08/06/13	KWG1307948	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

EPA Method 504.1

Sample Name:	DW 1	**Units:**	ug/L
Lab Code:	K1307603-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0097	1	08/05/13	08/06/13	KWG1307948	
1,2,3-Trichloropropane	ND	U	0.40	1	08/05/13	08/06/13	KWG1307948	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0097	1	08/05/13	08/06/13	KWG1307948	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

EPA Method 504.1

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1307948-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	504.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,2-Dibromoethane (EDB)	ND	U	0.0099	1	08/05/13	08/06/13	KWG1307948	
1,2,3-Trichloropropane	ND	U	0.40	1	08/05/13	08/06/13	KWG1307948	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.0099	1	08/05/13	08/06/13	KWG1307948	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Pesticides/PCBs by EPA Method 508.1

Sample Name:	DW 2	**Units:**	ug/L
Lab Code:	K1307603-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Aldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide (Isomer A)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDE	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Dieldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Endrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDD	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDT	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Methoxychlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Toxaphene	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Chlordane	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1016	ND	U	0.049	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1221	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1232	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1242	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1248	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1254	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1260	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	99	70-130	08/21/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Pesticides/PCBs by EPA Method 508.1

Sample Name:	DW 5	**Units:**	ug/L
Lab Code:	K1307603-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Aldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide (Isomer A)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDE	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Dieldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Endrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDD	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDT	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Methoxychlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Toxaphene	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Chlordane	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1016	ND	U	0.049	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1221	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1232	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1242	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1248	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1254	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1260	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	97	70-130	08/21/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Pesticides/PCBs by EPA Method 508.1

Sample Name:	DW 1	**Units:**	ug/L
Lab Code:	K1307603-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Aldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide (Isomer A)	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDE	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Dieldrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Endrin	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDD	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDT	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Methoxychlor	ND	U	0.0098	1	08/06/13	08/21/13	KWG1308012	
Toxaphene	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Chlordane	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1016	ND	U	0.049	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1221	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1232	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1242	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1248	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1254	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1260	ND	U	0.098	1	08/06/13	08/21/13	KWG1308012	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	96	70-130	08/21/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Pesticides/PCBs by EPA Method 508.1

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308012-5	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	508.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
gamma-BHC (Lindane)	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Heptachlor	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Aldrin	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Heptachlor Epoxide (Isomer A)	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDE	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Dieldrin	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Endrin	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDD	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
4,4'-DDT	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Methoxychlor	ND	U	0.010	1	08/06/13	08/21/13	KWG1308012	
Toxaphene	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Chlordane	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1016	ND	U	0.050	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1221	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1232	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1242	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1248	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1254	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	
Aroclor 1260	ND	U	0.10	1	08/06/13	08/21/13	KWG1308012	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4,4'-Dibromooctafluorobiphenyl	99	70-130	08/21/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Chlorinated Herbicides by EPA 515.4

Sample Name:	DW 2	**Units:**	ug/L
Lab Code:	K1307603-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	2.0	1	08/05/13	08/09/13	KWG1308150	
3,5-Dichlorobenzoic Acid	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
Dicamba	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Dichlorprop	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
2,4-D	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Pentachlorophenol	ND	U	0.080	1	08/05/13	08/09/13	KWG1308150	
2,4,5-TP (Silvex)	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
2,4,5-T	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
Chloramben	ND	U	0.30	1	08/05/13	08/09/13	KWG1308150	
2,4-DB	ND	U	1.0	1	08/05/13	08/09/13	KWG1308150	
Dinoseb	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
Bentazon	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
Dacthal Diacid	ND	U	0.10	1	08/05/13	08/09/13	KWG1308150	
Picloram	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Acifluorfen	ND	U	2.0	1	08/05/13	08/09/13	KWG1308150	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	108	70-130	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Chlorinated Herbicides by EPA 515.4

Sample Name:	DW 5	**Units:**	ug/L
Lab Code:	K1307603-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	2.0	1	08/05/13	08/09/13	KWG1308150	
3,5-Dichlorobenzoic Acid	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
Dicamba	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Dichlorprop	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
2,4-D	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Pentachlorophenol	ND	U	0.080	1	08/05/13	08/09/13	KWG1308150	
2,4,5-TP (Silvex)	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
2,4,5-T	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
Chloramben	ND	U	0.30	1	08/05/13	08/09/13	KWG1308150	
2,4-DB	ND	U	1.0	1	08/05/13	08/09/13	KWG1308150	
Dinoseb	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
Bentazon	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
Dacthal Diacid	ND	U	0.10	1	08/05/13	08/09/13	KWG1308150	
Picloram	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Acifluorfen	ND	U	2.0	1	08/05/13	08/09/13	KWG1308150	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	108	70-130	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Chlorinated Herbicides by EPA 515.4

Sample Name:	DW 1	**Units:**	ug/L
Lab Code:	K1307603-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	2.0	1	08/05/13	08/09/13	KWG1308150	
3,5-Dichlorobenzoic Acid	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
Dicamba	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Dichlorprop	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
2,4-D	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Pentachlorophenol	ND	U	0.080	1	08/05/13	08/09/13	KWG1308150	
2,4,5-TP (Silvex)	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
2,4,5-T	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
Chloramben	ND	U	0.30	1	08/05/13	08/09/13	KWG1308150	
2,4-DB	ND	U	1.0	1	08/05/13	08/09/13	KWG1308150	
Dinoseb	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
Bentazon	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
Dacthal Diacid	ND	U	0.10	1	08/05/13	08/09/13	KWG1308150	
Picloram	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Acifluorfen	ND	U	2.0	1	08/05/13	08/09/13	KWG1308150	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	108	70-130	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Chlorinated Herbicides by EPA 515.4

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308150-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	515.4		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dalapon	ND	U	2.0	1	08/05/13	08/09/13	KWG1308150	
3,5-Dichlorobenzoic Acid	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
Dicamba	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Dichlorprop	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
2,4-D	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Pentachlorophenol	ND	U	0.080	1	08/05/13	08/09/13	KWG1308150	
2,4,5-TP (Silvex)	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
2,4,5-T	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
Chloramben	ND	U	0.30	1	08/05/13	08/09/13	KWG1308150	
2,4-DB	ND	U	1.0	1	08/05/13	08/09/13	KWG1308150	
Dinoseb	ND	U	0.40	1	08/05/13	08/09/13	KWG1308150	
Bentazon	ND	U	0.50	1	08/05/13	08/09/13	KWG1308150	
Dacthal Diacid	ND	U	0.10	1	08/05/13	08/09/13	KWG1308150	
Picloram	ND	U	0.20	1	08/05/13	08/09/13	KWG1308150	
Acifluorfen	ND	U	2.0	1	08/05/13	08/09/13	KWG1308150	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
2,4-Dichlorophenylacetic Acid	106	70-130	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Volatile Organic Compounds

Sample Name:	DW 2	**Units:**	ug/L
Lab Code:	K1307603-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Vinyl Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichlorofluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methylene Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Carbon Tetrachloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Benzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromodichloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Toluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Tetrachloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Ethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Styrene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
m,p-Xylenes	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Volatile Organic Compounds

Sample Name:	DW 2	**Units:**	ug/L
Lab Code:	K1307603-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromoform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Isopropylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Propylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3,5-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
4-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
tert-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
sec-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
p-Isopropyltoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,4-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Hexachlorobutadiene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Naphthalene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Volatile Organic Compounds

Sample Name:	DW 2	**Units:**	ug/L
Lab Code:	K1307603-001	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	90	70-130	08/09/13	Acceptable
Dibromofluoromethane	99	82-124	08/09/13	Acceptable
Toluene-d8	89	82-124	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Volatile Organic Compounds

Sample Name:	DW 5	**Units:**	ug/L
Lab Code:	K1307603-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Vinyl Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichlorofluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methylene Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Carbon Tetrachloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Benzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromodichloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Toluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Tetrachloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Ethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Styrene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
m,p-Xylenes	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Volatile Organic Compounds

Sample Name:	DW 5	**Units:**	ug/L
Lab Code:	K1307603-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromoform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Isopropylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Propylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3,5-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
4-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
tert-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
sec-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
p-Isopropyltoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,4-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Hexachlorobutadiene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Naphthalene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Volatile Organic Compounds

Sample Name:	DW 5	**Units:**	ug/L
Lab Code:	K1307603-002	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	89	70-130	08/09/13	Acceptable
Dibromofluoromethane	99	82-124	08/09/13	Acceptable
Toluene-d8	89	82-124	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Volatile Organic Compounds

Sample Name:	DW 1	**Units:**	ug/L
Lab Code:	K1307603-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Vinyl Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichlorofluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methylene Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Carbon Tetrachloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Benzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromodichloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Toluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Tetrachloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Ethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Styrene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
m,p-Xylenes	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Volatile Organic Compounds

Sample Name:	DW 1	**Units:**	ug/L
Lab Code:	K1307603-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromoform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Isopropylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Propylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3,5-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
4-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
tert-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
sec-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
p-Isopropyltoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,4-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Hexachlorobutadiene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Naphthalene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Volatile Organic Compounds

Sample Name:	DW 1	**Units:**	ug/L
Lab Code:	K1307603-003	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	89	70-130	08/09/13	Acceptable
Dibromofluoromethane	99	82-124	08/09/13	Acceptable
Toluene-d8	89	82-124	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308285-2	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Vinyl Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichlorofluoromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methylene Chloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,2-Dichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Methyl tert-Butyl Ether	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chloroform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Carbon Tetrachloride	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Benzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Trichloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromodichloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromomethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
cis-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Toluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
trans-1,3-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Tetrachloroethene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2,2-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Dibromochloromethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Chlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Ethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Styrene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
m,p-Xylenes	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308285-2	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	524.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
o-Xylene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromoform	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Isopropylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1-Dichloropropene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Bromobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Propylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3,5-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
2-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
4-Chlorotoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
tert-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trimethylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
sec-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
p-Isopropyltoluene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,3-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,4-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
n-Butylbenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2-Dibromo-3-chloropropane (DBCP	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,4-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Hexachlorobutadiene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
Naphthalene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,2-Trichloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichloropropane	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	
1,2,3-Trichlorobenzene	ND	U	0.50	1	08/09/13	08/09/13	KWG1308285	

Comments:

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Volatile Organic Compounds

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308285-2	**Basis:**	NA

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	92	70-130	08/09/13	Acceptable
Dibromofluoromethane	99	82-124	08/09/13	Acceptable
Toluene-d8	91	82-124	08/09/13	Acceptable

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW 2	**Units:**	ug/L
Lab Code:	K1307603-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	08/06/13	08/27/13	KWG1308017	
Fluorene	ND	U	0.049	1	08/06/13	08/27/13	KWG1308017	
Propachlor	ND	U	0.074	1	08/06/13	08/27/13	KWG1308017	
Hexachlorobenzene	ND	U	0.098	1	08/06/13	08/27/13	KWG1308017	
Simazine	ND	U	0.049	1	08/06/13	08/27/13	KWG1308017	
Atrazine	ND	U	0.098	1	08/06/13	08/27/13	KWG1308017	
Metribuzin	ND	U	0.20	1	08/06/13	08/27/13	KWG1308017	
Alachlor	ND	U	0.070	1	08/06/13	08/27/13	KWG1308017	
Bromacil	ND	U	0.20	1	08/06/13	08/27/13	KWG1308017	
Metolachlor	ND	U	0.088	1	08/06/13	08/27/13	KWG1308017	
Butachlor	ND	U	0.051	1	08/06/13	08/27/13	KWG1308017	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	08/06/13	08/27/13	KWG1308017	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	08/06/13	08/27/13	KWG1308017	
Benzo(a)pyrene	ND	U	0.020	1	08/06/13	08/27/13	KWG1308017	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	99	70-130	08/27/13	Acceptable
Triphenyl Phosphate	112	70-130	08/27/13	Acceptable
Perylene-d12	89	70-130	08/27/13	Acceptable

Comments:

REVISED
12:00 pm, Oct 30, 2013

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW 5	**Units:**	ug/L
Lab Code:	K1307603-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	08/06/13	08/27/13	KWG1308017	
Fluorene	ND	U	0.049	1	08/06/13	08/27/13	KWG1308017	
Propachlor	ND	U	0.074	1	08/06/13	08/27/13	KWG1308017	
Hexachlorobenzene	ND	U	0.098	1	08/06/13	08/27/13	KWG1308017	
Simazine	ND	U	0.049	1	08/06/13	08/27/13	KWG1308017	
Atrazine	ND	U	0.098	1	08/06/13	08/27/13	KWG1308017	
Metribuzin	ND	U	0.20	1	08/06/13	08/27/13	KWG1308017	
Alachlor	ND	U	0.070	1	08/06/13	08/27/13	KWG1308017	
Bromacil	ND	U	0.20	1	08/06/13	08/27/13	KWG1308017	
Metolachlor	ND	U	0.088	1	08/06/13	08/27/13	KWG1308017	
Butachlor	ND	U	0.051	1	08/06/13	08/27/13	KWG1308017	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	08/06/13	08/27/13	KWG1308017	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	08/06/13	08/27/13	KWG1308017	
Benzo(a)pyrene	ND	U	0.020	1	08/06/13	08/27/13	KWG1308017	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	101	70-130	08/27/13	Acceptable
Triphenyl Phosphate	105	70-130	08/27/13	Acceptable
Perylene-d12	90	70-130	08/27/13	Acceptable

Comments:

REVISED
12:00 pm, Oct 30, 2013

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW 1	**Units:**	ug/L
Lab Code:	K1307603-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	08/06/13	08/27/13	KWG1308017	
Fluorene	ND	U	0.049	1	08/06/13	08/27/13	KWG1308017	
Propachlor	ND	U	0.074	1	08/06/13	08/27/13	KWG1308017	
Hexachlorobenzene	ND	U	0.098	1	08/06/13	08/27/13	KWG1308017	
Simazine	ND	U	0.049	1	08/06/13	08/27/13	KWG1308017	
Atrazine	ND	U	0.098	1	08/06/13	08/27/13	KWG1308017	
Metribuzin	ND	U	0.20	1	08/06/13	08/27/13	KWG1308017	
Alachlor	ND	U	0.070	1	08/06/13	08/27/13	KWG1308017	
Bromacil	ND	U	0.20	1	08/06/13	08/27/13	KWG1308017	
Metolachlor	ND	U	0.088	1	08/06/13	08/27/13	KWG1308017	
Butachlor	ND	U	0.051	1	08/06/13	08/27/13	KWG1308017	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	08/06/13	08/27/13	KWG1308017	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	08/06/13	08/27/13	KWG1308017	
Benzo(a)pyrene	ND	U	0.020	1	08/06/13	08/27/13	KWG1308017	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	105	70-130	08/27/13	Acceptable
Triphenyl Phosphate	113	70-130	08/27/13	Acceptable
Perylene-d12	90	70-130	08/27/13	Acceptable

Comments:

REVISED
12:00 pm, Oct 30, 2013

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Semivolatile Organics by EPA Method 525.2

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1308017-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.10	1	08/06/13	08/27/13	KWG1308017	
Fluorene	ND	U	0.050	1	08/06/13	08/27/13	KWG1308017	
Propachlor	ND	U	0.076	1	08/06/13	08/27/13	KWG1308017	
Hexachlorobenzene	ND	U	0.10	1	08/06/13	08/27/13	KWG1308017	
Simazine	ND	U	0.050	1	08/06/13	08/27/13	KWG1308017	
Atrazine	ND	U	0.10	1	08/06/13	08/27/13	KWG1308017	
Metribuzin	ND	U	0.20	1	08/06/13	08/27/13	KWG1308017	
Alachlor	ND	U	0.072	1	08/06/13	08/27/13	KWG1308017	
Bromacil	ND	U	0.20	1	08/06/13	08/27/13	KWG1308017	
Metolachlor	ND	U	0.090	1	08/06/13	08/27/13	KWG1308017	
Butachlor	ND	U	0.052	1	08/06/13	08/27/13	KWG1308017	
Bis(2-ethylhexyl) Adipate	ND	U	0.60	1	08/06/13	08/27/13	KWG1308017	
Bis(2-ethylhexyl) Phthalate	ND	U	0.60	1	08/06/13	08/27/13	KWG1308017	
Benzo(a)pyrene	ND	U	0.020	1	08/06/13	08/27/13	KWG1308017	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	101	70-130	08/27/13	Acceptable
Triphenyl Phosphate	104	70-130	08/27/13	Acceptable
Perylene-d12	87	70-130	08/27/13	Acceptable

Comments:

REVISED
12:00 pm, Oct 30, 2013

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: Longview, City of
Project: Sentinel Well Program
Sample Matrix: Drinking water

Service Request: K1307603

Surrogate Recovery Summary
Semivolatile Organics by EPA Method 525.2

Extraction Method: METHOD
Analysis Method: 525.2

Units: Percent
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
Batch QC	K1307542-001	97	104	83
DW 2	K1307603-001	99	112	89
DW 5	K1307603-002	101	105	90
DW 1	K1307603-003	105	113	90
Method Blank	KWG1308017-3	101	104	87
Batch QCMS	KWG1308017-2	102	117	85
Lab Control Sample	KWG1308017-1	95	113	92

Surrogate Recovery Control Limits (%)

Sur1	=	1,3-Dimethyl-2-nitrobenzene	70-130
Sur2	=	Triphenyl Phosphate	70-130
Sur3	=	Perylene-d12	70-130

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

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

REVISED
12:00 pm, Oct 30, 2013

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Extracted:**	08/06/2013
Sample Matrix:	Drinking water	**Date Analyzed:**	08/26/2013

Matrix Spike Summary
Semivolatile Organics by EPA Method 525.2

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1307542-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2	**Extraction Lot:**	KWG1308017

		Batch QCMS KWG1308017-2 Matrix Spike				
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**%Rec**		**%Rec Limits**
Hexachlorocyclopentadiene	ND	0.811	0.971	84		70-130
Fluorene	ND	0.982	0.971	101		70-130
Propachlor	ND	1.04	0.971	107		70-130
Hexachlorobenzene	ND	1.01	0.971	104		70-130
Simazine	ND	1.04	0.971	107		70-130
Atrazine	ND	0.993	0.971	102		70-130
Metribuzin	ND	1.06	0.971	109		70-130
Alachlor	ND	1.08	0.971	111		70-130
Bromacil	ND	1.21	0.971	124		70-130
Metolachlor	ND	1.06	0.971	109		70-130
Butachlor	ND	1.01	0.971	104		70-130
Bis(2-ethylhexyl) Adipate	ND	1.05	0.971	108		70-130
Bis(2-ethylhexyl) Phthalate	ND	1.10	0.971	114		70-130
Benzo(a)pyrene	ND	0.384	0.971	40	*	70-130

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.

REVISED
12:00 pm, Oct 30, 2013

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Extracted:**	08/06/2013
Sample Matrix:	Drinking water	**Date Analyzed:**	08/27/2013

Lab Control Spike Summary
Semivolatile Organics by EPA Method 525.2

Extraction Method:	METHOD	**Units:**	ug/L
Analysis Method:	525.2	**Basis:**	NA
		Level:	Low
		Extraction Lot:	KWG1308017

	Lab Control Sample KWG1308017-1 Lab Control Spike			
Analyte Name	**Result**	**Spike Amount**	**%Rec**	**%Rec Limits**
Hexachlorocyclopentadiene	0.735	1.00	74	70-130
Fluorene	0.975	1.00	98	70-130
Propachlor	0.998	1.00	100	70-130
Hexachlorobenzene	0.968	1.00	97	70-130
Simazine	1.02	1.00	102	70-130
Atrazine	0.967	1.00	97	70-130
Metribuzin	1.08	1.00	108	70-130
Alachlor	0.993	1.00	99	70-130
Bromacil	1.14	1.00	114	70-130
Metolachlor	1.04	1.00	104	70-130
Butachlor	1.01	1.00	101	70-130
Bis(2-ethylhexyl) Adipate	1.03	1.00	103	70-130
Bis(2-ethylhexyl) Phthalate	1.14	1.00	114	70-130
Benzo(a)pyrene	1.01	1.00	101	70-130

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.

REVISED
12:00 pm, Oct 30, 2013

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Endothall by EPA Method 548.1

Sample Name:	DW 2	**Units:**	ug/L
Lab Code:	K1307603-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	08/01/13	08/09/13	KWG1307788	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Endothall by EPA Method 548.1

Sample Name:	DW 5	**Units:**	ug/L
Lab Code:	K1307603-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	08/01/13	08/09/13	KWG1307788	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Endothall by EPA Method 548.1

Sample Name:	DW 1	**Units:**	ug/L
Lab Code:	K1307603-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	08/01/13	08/09/13	KWG1307788	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Endothall by EPA Method 548.1

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1307788-3	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	548.1		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Endothall	ND	U	5.0	1	08/01/13	08/09/13	KWG1307788	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Diquat and Paraquat by EPA Method 549.2

Sample Name:	DW 2	**Units:**	ug/L
Lab Code:	K1307603-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	08/06/13	08/14/13	KWG1307988	
Paraquat	ND	U	0.80	1	08/06/13	08/14/13	KWG1307988	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Diquat and Paraquat by EPA Method 549.2

Sample Name:	DW 5	**Units:**	ug/L
Lab Code:	K1307603-002	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	08/06/13	08/14/13	KWG1307988	
Paraquat	ND	U	0.80	1	08/06/13	08/14/13	KWG1307988	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	07/31/2013
Sample Matrix:	Drinking water	**Date Received:**	07/31/2013

Diquat and Paraquat by EPA Method 549.2

Sample Name:	DW 1	**Units:**	ug/L
Lab Code:	K1307603-003	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	08/06/13	08/14/13	KWG1307988	
Paraquat	ND	U	0.80	1	08/06/13	08/14/13	KWG1307988	

Comments:

ALS Group USA, Corp. dba ALS Environmental

Analytical Results

Client:	Longview, City of	**Service Request:**	K1307603
Project:	Sentinel Well Program	**Date Collected:**	NA
Sample Matrix:	Drinking water	**Date Received:**	NA

Diquat and Paraquat by EPA Method 549.2

Sample Name:	Method Blank	**Units:**	ug/L
Lab Code:	KWG1307988-4	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	549.2		

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Diquat	ND	U	0.40	1	08/06/13	08/14/13	KWG1307988	
Paraquat	ND	U	0.80	1	08/06/13	08/14/13	KWG1307988	

Comments:

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Report

for

ALS Environmental
1317 S. 13th Avenue
Kelso, WA 98626
Attention: Chris Leaf

Date of Issue
08/15/2013
EUROFINS EATON
ANALYTICAL

01114CA

Report: 443531
Project: SUBCONTRACT
Group: SOCs

DST: David S Tripp
Project Manager

Laboratory certifies that the test results meet all **TNI NELAP** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are Hits Reports, Comments, QC Summary, QC Report and Regulatory Forms. This report shall not be reproduced except in full, without the written approval of the laboratory.

eurofins | Eaton Analytical
formerly MWH Laboratories

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	**Mississippi**	Certified
Alaska	CA00006	**Montana**	Cert 0035
Arizona	AZ0778	**Nevada**	CA00006-2012-1
Arkansas	Certified	**New Hampshire**	2959
California – NELAP	01114CA	**New Jersey**	CA 008
California – ELAP	1422	**New Mexico**	Certified
Colorado	Certified	**New York**	11320
Connecticut	PH-0107	**North Carolina**	06701
Delaware	CA 006	**North Dakota**	R-009
Florida	E871024	**Oregon**	CA 200003-011
Georgia	947	**Pennsylvania**	68-565
Guam	12-006r	**Rhode Island**	LAO00326
Hawaii	Certified	**South Carolina**	87016001
Idaho	Certified	**South Dakota**	Certified
Illinois	200033	**Tennessee**	TN02839
Indiana	C-CA-01	**Texas**	T104704230-12-4
Kansas	E-10268	**Utah**	CA000062013
Kentucky	90107	**Vermont**	VT0114
Louisiana	LA130008	**Virginia**	00210
Maine	CA0006	**Washington**	C838
Maryland	224	**West Virginia**	9943 C
Commonwealth of Northern Marianas Is.	MP0004	**Wisconsin**	998316660
Massachusetts	M-CA006	**Wyoming**	8TMS-L
Michigan	9906	**EPA Region 5**	Certified

NELAP/TNI Recognized Accreditation Bodies - in 'BLUE'

eurofins | Eaton Analytical

Acknowledgement of Samples Received

Addr: **ALS Environmental**
1317 S. 13th Avenue
Kelso, WA 98626

Client ID: COLUMBIA-WA
Folder #: 443531
Project: SUBCONTRACT
Sample Group: SOCs

Attn: Chris Leaf
Phone: 360-577-7222

Project Manager: David S Tripp
Phone: (626) 386-1158
PO #: K1307603

The following samples were received from you on **August 02, 2013**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID		Sample Date
201308020088	DW 2		07/31/2013 1140
	Variable ID: K1307603-001		
	@ML531.2	Glyphosate	
201308020089	DW 5		07/31/2013 1330
	Variable ID: K1307603-002		
	@ML531.2	Glyphosate	
201308020090	DW 1		07/31/2013 1510
	Variable ID: K1307603-003		
	@ML531.2	Glyphosate	

Test Description

@ML531.2 -- Aldicarbs

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 http://www.EatonAnalytical.com

ALS Environmental Chain of Custody

1317 South 13th Avenue • Kelso, WA 98626 • 1-360-577-7222 • FAX 1-360-636-1068

ALS Contact: Chris Leaf

443531

Project Number: K1307603
Project Manager: Chris Leaf

Lab Code	Sample ID	# of Cont.	Matrix	Sample Date	Sample Time	Lab ID	CARBAM 531.1	GLYPH 547
K1307603-001	DW 2	2	Drinking Water	7/31/13	1140	Eurofins (MWH	X	X
K1307603-002	DW 5	2	Drinking Water	7/31/13	1330	Eurofins (MWH	X	X
K1307603-003	DW 1	2	Drinking Water	7/31/13	1510	Eurofins (MWH	X	X

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Test Comments

CARBAM - 531.1	K1307603-001,2,3	INSECT1 TEST PANEL
GLYPH - 547	K1307603-001,2,3	GLYPH TEST PANEL

TEMP. 5.2 on ICE

Special Instructions/Comments

Please provide the electronic (PDF and EDD) report to the following e-mail address: ALKLS.Data@alsglobal.com.

No WA DOH report req'd CL 7/31/13

H - Test is On Hold P - Test is Authorized for Prep Only

Turnaround Requirements

____ **RUSH** (Surcharges Apply)

PLEASE CIRCLE WORK DAYS

1 2 3 4 5

✓ **STANDARD**

Requested FAX Date: _____

Requested Report Date: 08/16/13

Report Requirements

✓ I. Results Only

____ II. Results + QC Summaries

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

PQL/MDL/J N

EDD N

Invoice Information

PO# K1307603 ✓

Bill to

Relinquished By: SW 8/1/13 1140

Received By:

Airbill Number: UPS 1Z973 659 01 6562 7657

K1307603

_____ **Ship To: Eurofins (MWH Labs)**
Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia, CA 91016-3629

PC _____ Date 7/31/13
SMO _____ Date 8/1/13

Instructions:

Ice ✓
Dry Ice _____
No Ice _____

Shipping:

Overnight ✓
2nd Day _____
Ground _____

Bill to Client Account _____

69

Comments:

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 443531

ALS Environmental
Chris Leaf
1317 S. 13th Avenue
Kelso, WA 98626

Folder Comments

Report revised to remove an extraneous page from the COC - 081513dst.

Flags Legend:

Q5 - Sample received with inadequate chemical preservation, but preserved by the laboratory.

The Comments Report may be blank if there are no comments for this report.

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750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 443531

ALS Environmental
Chris Leaf
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Kelso, WA 98626

Samples Received on:
08/02/2013

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL

SUMMARY OF POSITIVE DATA ONLY

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Report: 443531

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Samples Received on:
08/02/2013

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
DW 2 (201308020088)						**Sampled on 07/31/2013 1140**		
Variable ID: K1307603-001								
	EPA 547 - Glyphosate							
	08/07/2013 15:51	720643	(EPA 547)	Glyphosate	ND	ug/L	6	1
	EPA 531.2 - Aldicarbs							
	08/07/2013 01:24	720496	(EPA 531.2)	3-Hydroxycarbofuran	ND (Q5)	ug/L	0.5	1
	08/07/2013 01:24	720496	(EPA 531.2)	Aldicarb (Temik)	ND (Q5)	ug/L	0.5	1
	08/07/2013 01:24	720496	(EPA 531.2)	Aldicarb sulfone	ND (Q5)	ug/L	0.5	1
	08/07/2013 01:24	720496	(EPA 531.2)	Aldicarb sulfoxide	ND (Q5)	ug/L	0.5	1
	08/07/2013 01:24	720496	(EPA 531.2)	Baygon	ND (Q5)	ug/L	0.5	1
	08/07/2013 01:24	720496	(EPA 531.2)	Carbaryl	ND (Q5)	ug/L	0.5	1
	08/07/2013 01:24	720496	(EPA 531.2)	Carbofuran (Furadan)	ND (Q5)	ug/L	0.5	1
	08/07/2013 01:24	720496	(EPA 531.2)	Methiocarb	ND (Q5)	ug/L	0.5	1
	08/07/2013 01:24	720496	(EPA 531.2)	Methomyl	ND (Q5)	ug/L	0.5	1
	08/07/2013 01:24	720496	(EPA 531.2)	Oxamyl (Vydate)	ND (Q5)	ug/L	0.5	1
	08/07/2013 01:24	720496	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	86 (Q5)	%		1
DW 5 (201308020089)						**Sampled on 07/31/2013 1330**		
Variable ID: K1307603-002								
	EPA 547 - Glyphosate							
	08/07/2013 16:02	720643	(EPA 547)	Glyphosate	ND	ug/L	6	1
	EPA 531.2 - Aldicarbs							
	08/07/2013 02:00	720496	(EPA 531.2)	3-Hydroxycarbofuran	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:00	720496	(EPA 531.2)	Aldicarb (Temik)	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:00	720496	(EPA 531.2)	Aldicarb sulfone	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:00	720496	(EPA 531.2)	Aldicarb sulfoxide	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:00	720496	(EPA 531.2)	Baygon	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:00	720496	(EPA 531.2)	Carbaryl	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:00	720496	(EPA 531.2)	Carbofuran (Furadan)	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:00	720496	(EPA 531.2)	Methiocarb	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:00	720496	(EPA 531.2)	Methomyl	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:00	720496	(EPA 531.2)	Oxamyl (Vydate)	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:00	720496	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	92 (Q5)	%		1
DW 1 (201308020090)						**Sampled on 07/31/2013 1510**		
Variable ID: K1307603-003								
	EPA 547 - Glyphosate							
	08/07/2013 16:12	720643	(EPA 547)	Glyphosate	ND	ug/L	6	1

Rounding on totals after summation.
(c) - indicates calculated results

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Samples Received on:
08/02/2013

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
	EPA 531.2 - Aldicarbs							
	08/07/2013 02:37	720496	(EPA 531.2)	3-Hydroxycarbofuran	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:37	720496	(EPA 531.2)	Aldicarb (Temik)	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:37	720496	(EPA 531.2)	Aldicarb sulfone	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:37	720496	(EPA 531.2)	Aldicarb sulfoxide	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:37	720496	(EPA 531.2)	Baygon	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:37	720496	(EPA 531.2)	Carbaryl	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:37	720496	(EPA 531.2)	Carbofuran (Furadan)	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:37	720496	(EPA 531.2)	Methiocarb	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:37	720496	(EPA 531.2)	Methomyl	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:37	720496	(EPA 531.2)	Oxamyl (Vydate)	ND (Q5)	ug/L	0.5	1
	08/07/2013 02:37	720496	(EPA 531.2)	4-Bromo-3,5-dimethylphenyl-N-methylc arbamate	93 (Q5)	%		1

Rounding on totals after summation.
(c) - indicates calculated results

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QC Ref # 720496 - Aldicarbs **Analysis Date: 08/07/2013**

201308020088	DW 2	Analyzed by: XWO
201308020089	DW 5	Analyzed by: XWO
201308020090	DW 1	Analyzed by: XWO

QC Ref # 720643 - Glyphosate **Analysis Date: 08/07/2013**

201308020088	DW 2	Analyzed by: DYM
201308020089	DW 5	Analyzed by: DYM
201308020090	DW 1	Analyzed by: DYM

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Laboratory QC
Report: 443531

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 720496 - Aldicarbs by EPA 531.2						**Analysis Date: 08/06/2013**			
CCCH	3-Hydroxycarbofuran		25	24.5	ug/L	98	(70-130)		
CCCM	3-Hydroxycarbofuran		10	9.73	ug/L	97	(70-130)		
LCS1	3-Hydroxycarbofuran		10	10.3	ug/L	103	(70-130)		
MBLK	3-Hydroxycarbofuran			<0.16	ug/L				
MRL_CHK	3-Hydroxycarbofuran		0.5	0.450	ug/L	90	(50-150)		
MS_201307290265	3-Hydroxycarbofuran	ND	10	9.76	ug/L	98	(70-130)		
MSD_201307290265	3-Hydroxycarbofuran	ND	10	10.3	ug/L	103	(70-130)	20	5.4
CCCH	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		98.8	%	99	(70-130)		
CCCM	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		92.5	%	92	(70-130)		
LCS1	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		93.7	%	94	(70-130)		
MBLK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		80.8	%	81	(70-130)		
MRL_CHK	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		88.3	%	88	(70-130)		
MS_201307290265	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		101	%	101	(70-130)		
MSD_201307290265	4-Bromo-3,5-dimethylphenyl-N-methylcarbamate	(		101	%	101	(70-130)		
CCCH	Aldicarb (Temik)		25	22.1	ug/L	88	(70-130)		
CCCM	Aldicarb (Temik)		10	8.71	ug/L	87	(70-130)		
LCS1	Aldicarb (Temik)		10	8.78	ug/L	88	(70-130)		
MBLK	Aldicarb (Temik)			<0.16	ug/L				
MRL_CHK	Aldicarb (Temik)		0.5	0.480	ug/L	96	(50-150)		
MS_201307290265	Aldicarb (Temik)	ND	10	10.0	ug/L	100	(70-130)		
MSD_201307290265	Aldicarb (Temik)	ND	10	10.1	ug/L	101	(70-130)	20	1
CCCH	Aldicarb sulfone		25	24.4	ug/L	97	(70-130)		
CCCM	Aldicarb sulfone		10	9.67	ug/L	97	(70-130)		
LCS1	Aldicarb sulfone		10	9.71	ug/L	97	(70-130)		
MBLK	Aldicarb sulfone			<0.16	ug/L				
MRL_CHK	Aldicarb sulfone		0.5	0.498	ug/L	100	(50-150)		
MS_201307290265	Aldicarb sulfone	ND	10	9.85	ug/L	99	(70-130)		
MSD_201307290265	Aldicarb sulfone	ND	10	9.84	ug/L	99	(70-130)	20	0.0
CCCH	Aldicarb sulfoxide		25	22.2	ug/L	89	(70-130)		
CCCM	Aldicarb sulfoxide		10	9.14	ug/L	91	(70-130)		
LCS1	Aldicarb sulfoxide		10	9.07	ug/L	91	(70-130)		
MBLK	Aldicarb sulfoxide			<0.16	ug/L				
MRL_CHK	Aldicarb sulfoxide		0.5	0.398	ug/L	80	(50-150)		
MS_201307290265	Aldicarb sulfoxide	ND	10	9.83	ug/L	98	(70-130)		
MSD_201307290265	Aldicarb sulfoxide	ND	10	9.88	ug/L	99	(70-130)	20	0.51
CCCH	Baygon		25	24.9	ug/L	100	(70-130)		

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCM	Baygon		10	9.84	ug/L	99	(70-130)		
LCS1	Baygon		10	10.1	ug/L	101	(70-130)		
MBLK	Baygon			<0.16	ug/L				
MRL_CHK	Baygon		0.5	0.430	ug/L	86	(50-150)		
MS_201307290265	Baygon	ND	10	10.6	ug/L	106	(70-130)		
MSD_201307290265	Baygon	ND	10	10.3	ug/L	103	(70-130)	20	2.9
CCCH	Carbaryl		25	24.4	ug/L	97	(70-130)		
CCCM	Carbaryl		10	9.83	ug/L	98	(70-130)		
LCS1	Carbaryl		10	9.62	ug/L	96	(70-130)		
MBLK	Carbaryl			<0.16	ug/L				
MRL_CHK	Carbaryl		0.5	0.456	ug/L	91	(50-150)		
MS_201307290265	Carbaryl	ND	10	9.79	ug/L	98	(70-130)		
MSD_201307290265	Carbaryl	ND	10	9.81	ug/L	98	(70-130)	20	0.20
CCCH	Carbofuran (Furadan)		25	25.1	ug/L	101	(70-130)		
CCCM	Carbofuran (Furadan)		10	9.97	ug/L	100	(70-130)		
LCS1	Carbofuran (Furadan)		10	9.84	ug/L	98	(70-130)		
MBLK	Carbofuran (Furadan)			<0.16	ug/L				
MRL_CHK	Carbofuran (Furadan)		0.5	0.519	ug/L	104	(50-150)		
MS_201307290265	Carbofuran (Furadan)	ND	10	10.3	ug/L	103	(70-130)		
MSD_201307290265	Carbofuran (Furadan)	ND	10	10.2	ug/L	102	(70-130)	20	0.98
CCCH	Methiocarb		25	25.4	ug/L	102	(70-130)		
CCCM	Methiocarb		10	9.95	ug/L	100	(70-130)		
LCS1	Methiocarb		10	10.2	ug/L	102	(70-130)		
MBLK	Methiocarb			<0.16	ug/L				
MRL_CHK	Methiocarb		0.5	0.314	ug/L	63	(50-150)		
MS_201307290265	Methiocarb	ND	10	10.4	ug/L	104	(70-130)		
MSD_201307290265	Methiocarb	ND	10	10.7	ug/L	107	(70-130)	20	2.8
CCCH	Methomyl		25	23.0	ug/L	92	(70-130)		
CCCM	Methomyl		10	9.23	ug/L	92	(70-130)		
LCS1	Methomyl		10	9.34	ug/L	93	(70-130)		
MBLK	Methomyl			<0.16	ug/L				
MRL_CHK	Methomyl		0.5	0.319	ug/L	64	(50-150)		
MS_201307290265	Methomyl	ND	10	10.1	ug/L	101	(70-130)		
MSD_201307290265	Methomyl	ND	10	10.1	ug/L	101	(70-130)	20	0.0
CCCH	Oxamyl (Vydate)		25	24.8	ug/L	99	(70-130)		
CCCM	Oxamyl (Vydate)		10	9.20	ug/L	92	(70-130)		
LCS1	Oxamyl (Vydate)		10	9.37	ug/L	94	(70-130)		
MBLK	Oxamyl (Vydate)			<0.16	ug/L				

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	Oxamyl (Vydate)		0.5	0.469	ug/L	94	(50-150)		
MS_201307290265	Oxamyl (Vydate)	ND	10	10.2	ug/L	102	(70-130)		
MSD_201307290265	Oxamyl (Vydate)	ND	10	9.04	ug/L	90	(70-130)	20	12
QC Ref# 720643 - Glyphosate by EPA 547						**Analysis Date: 08/07/2013**			
CCCH	Glyphosate		25	22.3	ug/L	89	(80-120)		
CCCM	Glyphosate		10	8.81	ug/L	88	(80-120)		
LCS1	Glyphosate		10	9.03	ug/L	90	(70-130)		
MBLK	Glyphosate			<6	ug/L				
MRL_CHK	Glyphosate		6.0	5.58	ug/L	93	(50-150)		
MS_201308010307	Glyphosate	ND	10	8.62	ug/L	86	(70-130)		
MS2_201308020183	Glyphosate	ND	10	9.00	ug/L	90	(70-130)		
MSD_201308010307	Glyphosate	ND	10	8.96	ug/L	90	(70-130)	20	4.0

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