Technical Memorandum
Groundwater Quality Sampling, First 2010 Semiannual Event

Date: 30 July 2010

To: Amy Blain
City of Longview

From: Steve Misner
Kennedy/Jenks Consultants

Subject: City of Longview
Groundwater Quality Sampling Results, First 2010 Semiannual Monitoring Event
K/J 0997003*00

This memorandum summarizes the results of the first 2010 semiannual groundwater monitoring and sampling event conducted in May 2010 in the Mint Farm Industrial Park well field area (Mint Farm). The groundwater monitoring and sampling is conducted on a semiannual 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. Groundwater samples are collected from deep sentinel wells DW-1, DW-2, DW-5, DW-6, DW-7, and DW-9 during each pre-operating semiannual sampling event. Groundwater monitoring will likely continue during full scale water production. However, the frequency for post-operation monitoring has not yet been established.

ACTIVITIES CONDUCTED DURING THE FIRST 2010 SEMIANNUAL 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 conducted during the first 2010 semiannual sampling event included:

- Collecting groundwater samples from deep sentinel wells DW-1, DW-2, DW-5, DW-6, DW-7, and DW-9 on 19 and 20 May 2010. The groundwater samples were collected following purging and stabilization of pH, temperature, conductivity, and dissolved oxygen. A groundwater sample was also collected on 23 April 2010 from production well PW-1 during the water treatment pilot study.

- Submitting the groundwater samples for analysis of total metals using Environmental Protection Agency (EPA) Method E200.7 and E200.8, semi volatile organic compounds (SVOCs) using EPA Method 525.2, and volatile organic compounds (VOCs) using EPA Method 524.2.

- Downloading water level data from the pressure transducers in all 17 sentinel wells, production well PW-1 and the Prudential Boulevard well.

- Processing the downloaded transducer data, developing shallow and deep groundwater elevation contour maps for April 2010 and generating hydrographs for the wells for Summer 2009 through Spring 2010.

- Preparing this summary technical memorandum.

RESULTS OF GROUNDWATER MONITORING

Groundwater Elevation Contour Maps and Hydrographs

Figures 1 and 2 are shallow aquifer and deep aquifer groundwater elevation contour maps representing the month of April 2010. The methodology for deriving the groundwater elevations is described in detail in *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, March 2010).

As indicated on Figures 1 and 2, the groundwater system in the Mint Farm area is complex and strongly influenced by the relative stages of the Consolidated Diking Improvement District (CDID) drainage canals and the Columbia River. An evaluation of the groundwater elevation contours derived from measurements obtained in April 2010 shows that groundwater flow in the shallow system primarily flows radially toward the CDID drainage canals around the Mint Farm area. An evaluation of the deep aquifer groundwater elevation contours for the April period indicates that the gradient in the vicinity of the well field is relatively low, with a predominant flow direction toward the northeast. However, in the west-southwest portion of the Mint Farm area, a slight southwesterly component of flow is also observed.

The groundwater hydrographs for all of the shallow sentinel wells are presented on Figure 3 and the hydrographs for all of the deep sentinel wells are presented on Figure 4.

Groundwater Sampling Results

The groundwater analytical results of detected constituents are summarized in Table 1. Potentially applicable screening standards are presented in Table 1 for comparison purposes. Copies of the laboratory analytical reports are included in Attachment A.

No VOCs or SVOCs were detected in any of the samples collected during the first 2010 semiannual sampling event. None of the concentrations of the detected total metals exceeded the screening values.

DATA QUALITY

A duplicate groundwater sample was collected from sentinel well DW-5 (QCFD-100520) for analysis of VOCs. No VOCs were detected in either the primary or duplicate sample.

The two trip blank samples submitted for analysis did not contain VOCs. Based on a review of the laboratory reports, it is our opinion that the analytical data are of acceptable quality for their intended use. A laboratory case narrative prepared by CAS is included as part of the lab report in Attachment A.

FUTURE SAMPLING ACTIVITIES

Groundwater monitoring will continue on a semiannual 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. The next groundwater monitoring event will be conducted in October 2010. Pressure transducer data will be downloaded on a quarterly 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.

Table

Table 1: Detected Constituents in Groundwater

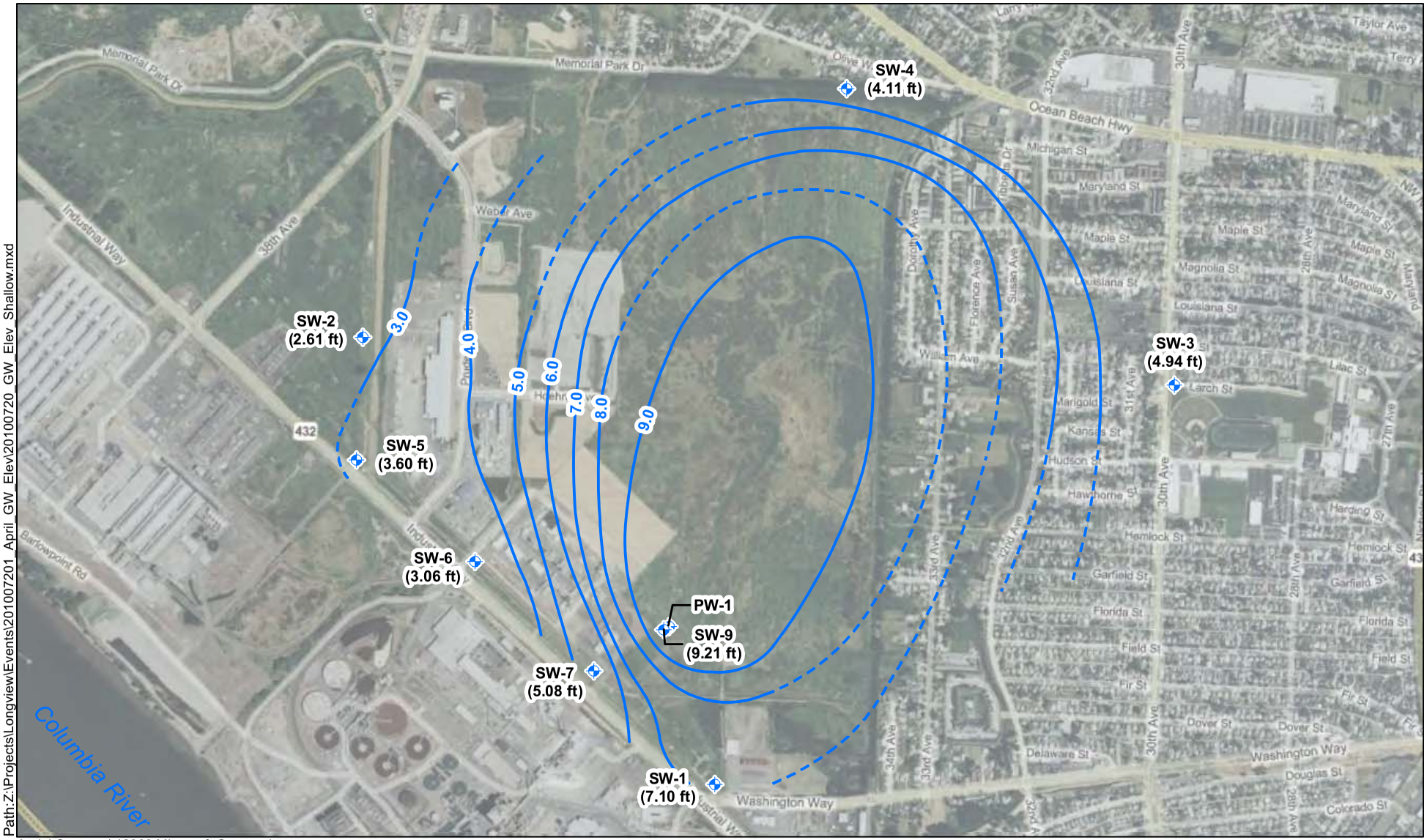
Detected Constituents in Groundwater in Micrograms per Liter

Well Identification	Sample Date	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium, Total	Copper	Iron	Lead	Magnesium	Manganese	Nickel	Potassium	Selenium	Silicon	Silver	Sodium	Thallium	Uranium	Zinc
DW-1	06/09/09	4.3	0.05 U[a]	2.44	12	0.004 B[b]	0.004 B	20,200	0.2 U	0.06 B	2,250	0.02 U	4,740	605	0.74	2,730	1.0 U	23,400	0.017 B	8,650	0.02 U	0.02 U	1.8 B
DW-1	11/11/09	1.0 J[c]	0.05 U	3.77	11.4	0.008 J	0.02 U	21,500	0.27	0.08 J	2,370	0.02 U	4,810	548	0.57	2,650	1.0 U	24,500	0.02 U	8,850	0.003 J	0.02 U	2.0 U
DW-1	05/19/10	2.1	0.05 U	3.9	11.3	0.02 U	0.02 U	20,300	0.2 U	0.2	2,290	0.02 U	5,020	552	0.4	2,650	1.0 U	25,500	0.02 U	8,880	0.02 U	0.02 U	2.0 U
DW-2	06/12/09	435	0.07	4.88	27.7	0.021	0.039	27,000	0.63	0.8	895	0.177	8,660	216	1.26	5,610	1.0 U	17,900	0.016 B	14,000	0.004 B	0.015 B	1.3 B
DW-2	05/19/10	64.0	0.05 U	5.2	24.1	0.02 U	0.02 U	30,600	0.2 U	0.2	571	0.04	10,500	257	0.6	5,750	1.0 U	19,900	0.02 U	15,500	0.02 U	0.02 U	2.0 U
DW-5	06/11/09	23.2	0.05 U	3.75	13.2	0.004 B	0.005 B	26,400	0.04 B	0.04 B	308	0.02 U	8,070	233	0.96	4,050	1.0 U	20,400	0.02 U	12,000	0.02 U	0.004 B	2.0 U
DW-5	05/20/10	2.7	0.05 U	5.4	13.9	0.02 U	0.02 U	31,400	0.2 U	0.1 U	404	0.02 U	10,000	287	0.5	4,350	1.0 U	23,000	0.02 U	12,300	0.02 U	0.02 U	2.0 U
DW-5	05/20/10	2.2	0.05 U	5.4	13.9	0.02 U	0.02 U	31,100	0.2 U	0.1 U	405	0.02 U	9,990	286	0.6	4,280	1.0 U	22,800	0.02 U	12,300	0.02 U	0.02 U	2.0 U
DW-6	06/10/09	47.6	0.03 B	2.29	12.5	0.008 B	0.007 B	24,100	0.05 B	0.05 B	450	0.033	6,270	371	0.91	3,670	1.0 U	21,100	0.02 U	10,800	0.02 U	0.025	1.6 B
DW-6	05/20/10	49.2	0.05 U	3.8	14.1	0.02 U	0.02 U	28,400	0.2 U	0.1 U	580	0.07	7,990	432	0.6	3,900	1.0 U	23,800	0.02 U	10,900	0.02 U	0.04	2.0 U
DW-7	06/10/09	4.7	0.05 U	2.95	12.9	0.02 U	0.005 B	20,800	0.13 B	0.05 B	1,220	0.02 U	4,950	671	0.77	3,010	1.0 U	23,200	0.01 B	8,990	0.02 U	0.02 U	1.7 B
DW-7	11/12/09	0.9 J	0.05 U	4.3	11.1	0.005 J	0.02 U	21,600	0.17 J	0.05 J	1,220	0.02 U	4,950	662	0.61	2,950	1.0 U	24,200	0.005 J	8,620	0.004 J	0.02 U	2.0 U
DW-7	05/20/10	2.0 U	0.05 U	4.4	10.9	0.02 U	0.02 U	20,800	0.2 U	0.1 U	1,210	0.02 U	5,130	660	0.4	2,940	1.0 U	25,100	0.02 U	8,820	0.02 U	0.02 U	2.0 U
DW-9	08/13/09	23.2	0.05 U,N[d]	3.46	13.8	0.005 B	0.006 B	26,500	0.73	0.3	1,060	0.05	6,500	587	1.68	3,620	1.0 U	24,600	0.009 B	10,300	0.02 U	0.003 B	3.6
DW-9	11/12/09	2.5	0.05 U	4.14	10.2	0.004 J	0.02 U	22,600	0.17 J	0.07 J	637	0.02 U	5,010	513	0.63	3,200	1.0 U	25,300	0.02 U	8,890	0.02 U	0.02 U	2.0 U
DW-9	05/19/10	4.3	0.05 U	4.5	11.4	0.02 U	0.03	23,400	0.2 U	0.1 U	688	0.02	5,700	550	0.5	3,360	1.0 U	25,900	0.02 U	9,450	0.02 U	0.02 U	2.0 U
PW-1	04/23/10	2.0 U	0.05 U	4.1	12.1	0.02 U	0.02 U	22,500	0.2 U	0.1 U	2,120	0.02 U	5,200	550	0.4	3,100	1.0 U	24,900	0.02 U	8,750	0.02 U	0.02 U	2.0 U
Screening Level		37,000[e]	6[f]	10[f]	2,000[f]	4[f]	5[f]	NE[g]	100[f]	1,300[f]	26,000[e]	15[f]	NE	2,200[h]	100[f]	NE	50[f]	NE	50[f]	NE	2[f]	30[f]	4,800[h]
Chemical Abstract Service Number		7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-70-2	7440-47-3	7440-50-8	7439-89-6	7439-92-1	7439-95-4	7439-96-5	7440-02-0	7440-09-7	7782-49-2	SI	7440-22-4	7440-23-5	7440-28-0	U	7440-66-6

Notes:

(a) U = The analyte was analyzed for, but was not detected ("Non-detect") at or above the Method Reporting Limit/Method Detection Limit.
(b) 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 and NELAC standards.
(c) J = The result is an estimated value that was detected outside the quantitation range.
(d) N = The matrix spike sample recovery is not within control limits. Recoveries in the laboratory control sample were acceptable, which indicates the analytical batch was in control.
(e) U.S. Environmental Protection Agency (EPA) Risk Screening Level (RSL)
(f) EPA Maximum Contaminant Level (MCL)
(g) NE = Not Established
(h) Department of Ecology Model Toxics Control Act (MTCA) Method B
(i) Washington Administrative Code (WAC) 173-200-040 Table 1 Groundwater Quality Criteria

Figures



Aerial Source: (c)2009 Microsoft Corporation

Legend

- Monitoring Well (Groundwater Elevation)
- Groundwater Contours (Dashed Where Approximate)

Note: Contours shown on this map represent the mean water level elevations from 4/01/10 to 4/30/10.

N

0 600 1,200

Scale: Feet

Contour Interval: 1.0 Foot

Kennedy/Jenks Consultants

Mint Farm RWTP Design
Longview, Washington

Shallow Aquifer Groundwater Map
April 2010 Mean Groundwater Elevations

KJ 0997003*00

Figure 1

Path:Z:\Projects\Longview\Events\201007201_April_GW_Elev\20100720_GW_Elev_Deep.mxd

Aerial Source: (c)2009 Microsoft Corporation

Legend

- Monitoring Well (Groundwater Elevation)
- Groundwater Contours
- Inferred Groundwater Flow Direction

Note: Contours shown on this map represent the mean water level elevations from 4/01/10 to 4/30/10.
N/A = Not Applicable

N

0 600 1,200

Scale: Feet

Contour Interval: 0.1 Foot

Kennedy/Jenks Consultants

Mint Farm RWTP Design
Longview, Washington

Deep Aquifer Groundwater Map
April 2010 Mean Groundwater Elevation

KJ 0997003*00

Figure 2

Figure 3. Hydrographs of Shallow Sentinel Wells

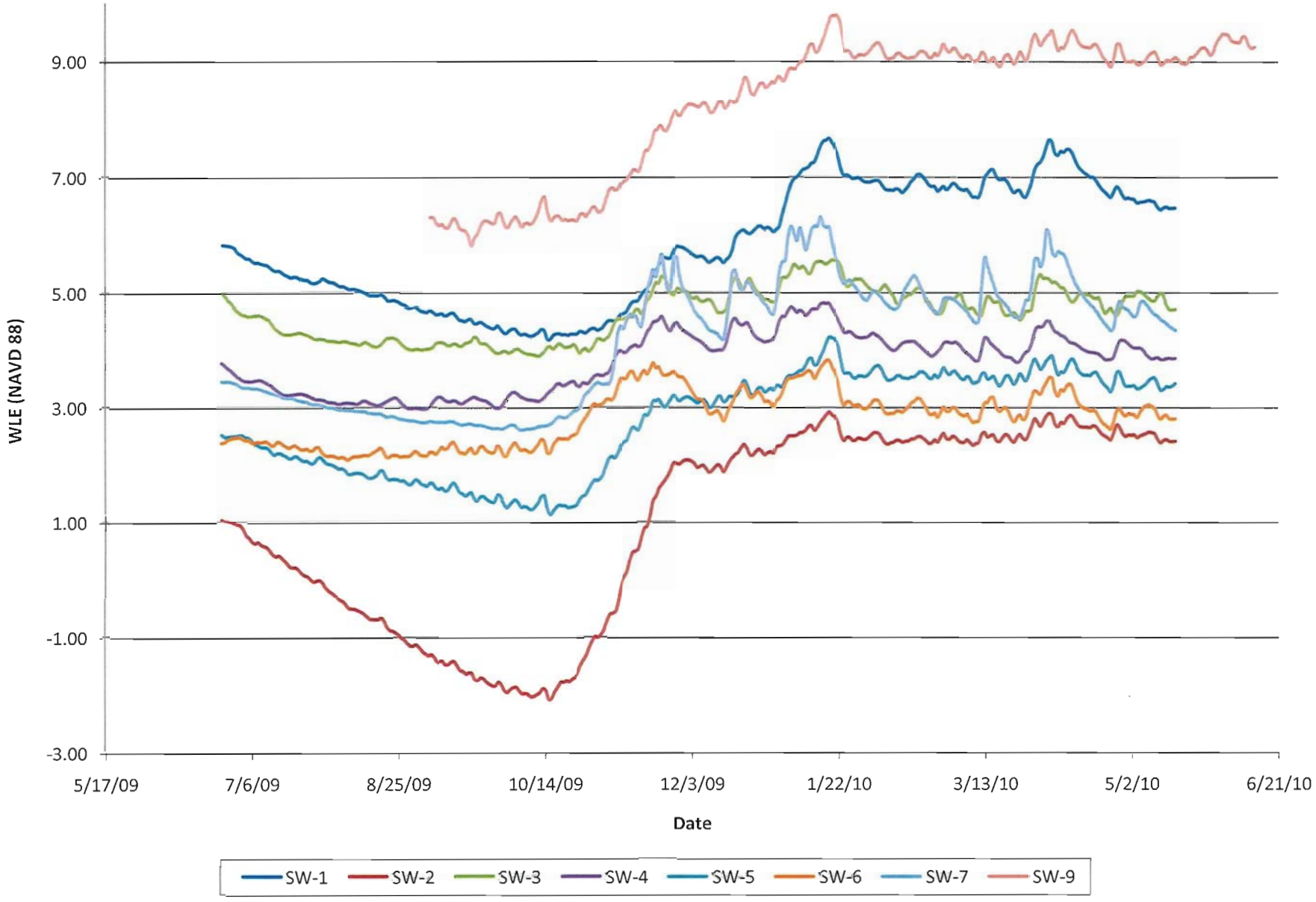
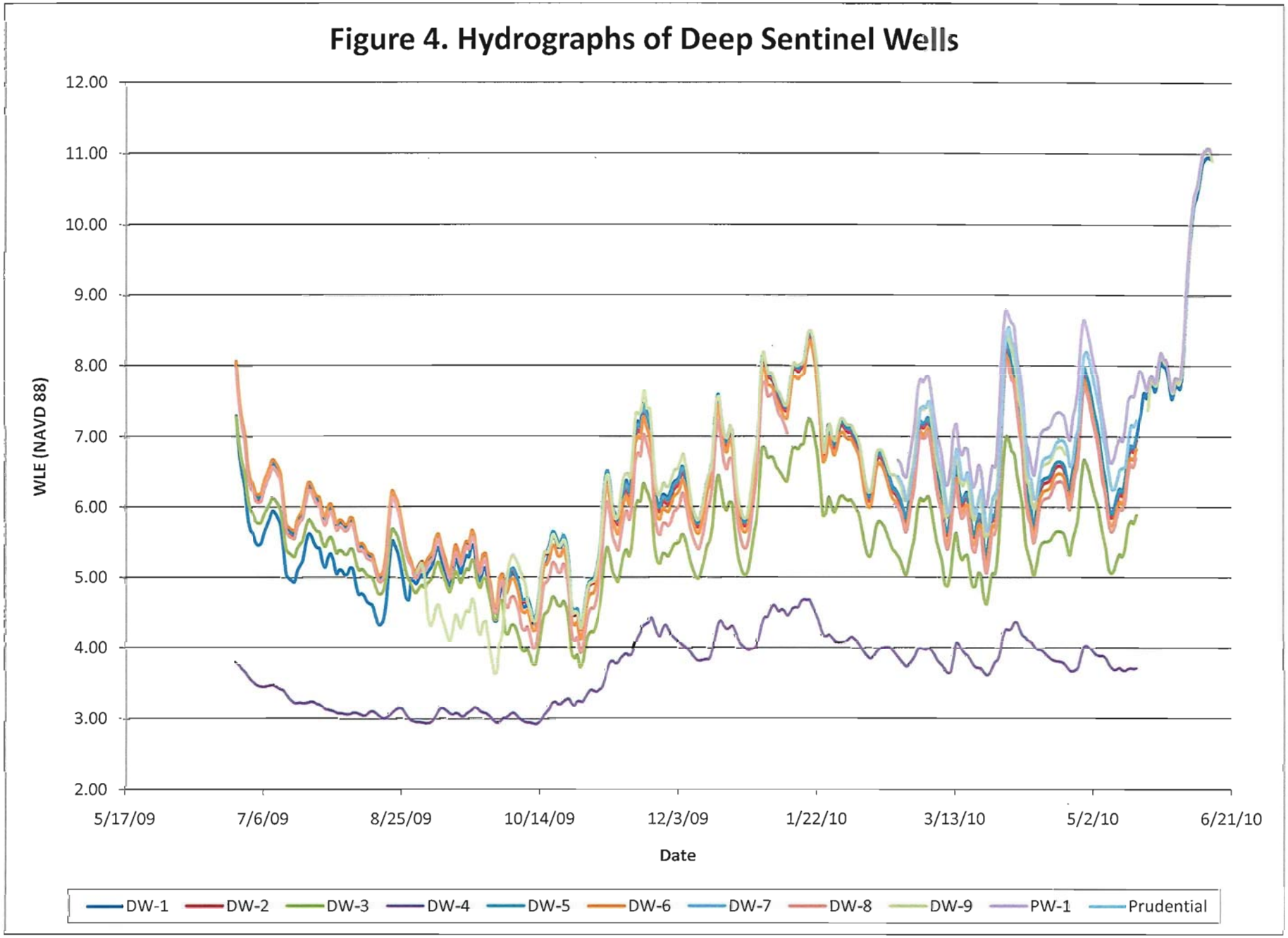


Figure 4. Hydrographs of Deep Sentinel Wells



Attachment A

Laboratory Analytical Reports

May 18, 2010 Analytical Report for Service Request No: K1003999

Don Larson
Kennedy/Jenks Consultants, Incorporated
200 SW Market St., Suite 500
Portland, OR 97201-5715

RE: Mint Farm RWTP/0997003 *00

Dear Don:

Enclosed are the results of the samples submitted to our laboratory on April 23, 2010. For your reference, these analyses have been assigned our service request number K1003999.

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

Please call if you have any questions. My extension is 3358. You may also contact me via Email at LHuckestein@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Lynda Huckestein
Client Services Manager

LH/ln

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
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 that was detected outside the quantitation range.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 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.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value that was detected outside the quantitation range.
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 4.1 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 estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
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 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

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

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

Columbia Analytical Services

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Kennedy/Jenks Consultants, Incorporated
Project Name: Mint Farm RWTP
Project No.: 0997003 *00

Service Request: K1003999

Sample Name:	Lab Code:
PW1-042310	K1003999-001
Method Blank	K1003999-MB
Batch QCD	K1004035-001D
Batch QCS	K1004035-001S

Comments:

Approved By: 3C **Date:** 5/13/10

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1003999
Project No.:	0997003 *00	**Date Collected:**	4/23/2010
Project Name:	Mint Farm RWTP	**Date Received:**	4/23/2010
Matrix:	WATER	**Units:**	ug/L
		Basis:	N/A

Sample Name: PW1-042310 **Lab Code:** K1003999-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	04/27/10	05/03/10	2.0	U	
Antimony	200.8	0.05	1.0	04/27/10	04/29/10	0.05	U	
Arsenic	200.8	0.5	1.0	04/27/10	04/29/10	4.1		
Barium	200.8	0.10	1.0	04/27/10	04/29/10	12.1		
Beryllium	200.8	0.02	1.0	04/27/10	04/29/10	0.02	U	
Cadmium	200.8	0.02	1.0	04/27/10	04/29/10	0.02	U	
Calcium	200.7	50.0	1.0	04/27/10	05/03/10	22500		
Chromium	200.8	0.2	1.0	04/27/10	04/29/10	0.2	U	
Copper	200.8	0.1	1.0	04/27/10	04/29/10	0.1	U	
Iron	200.7	10.0	1.0	04/27/10	05/03/10	2120		
Lead	200.8	0.02	1.0	04/27/10	04/29/10	0.02	U	
Magnesium	200.7	10.0	1.0	04/27/10	05/03/10	5200		
Manganese	200.7	0.6	1.0	04/27/10	05/03/10	550		
Nickel	200.8	0.2	1.0	04/27/10	04/29/10	0.4		
Potassium	200.7	100	1.0	04/27/10	05/03/10	3100		
Selenium	200.8	1.0	1.0	04/27/10	04/29/10	1.0	U	
Silicon	200.7	50.0	1.0	04/27/10	05/03/10	24900		
Silver	200.8	0.02	1.0	04/27/10	04/29/10	0.02	U	
Sodium	200.7	200	1.0	04/27/10	05/03/10	8750		
Thallium	200.8	0.02	1.0	04/27/10	04/29/10	0.02	U	
Uranium	200.8	0.020	1.0	04/27/10	04/29/10	0.020	U	
Zinc	200.7	2.0	1.0	04/27/10	05/03/10	2.0	U	

% Solids: 0.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1003999
Project No.:	0997003 *00	**Date Collected:**	
Project Name:	Mint Farm RWTP	**Date Received:**	
Matrix:	WATER	**Units:**	ug/L
		Basis:	N/A

Sample Name: Method Blank **Lab Code:** K1003999-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	04/27/10	05/03/10	2.0	U	
Antimony	200.8	0.05	1.0	04/27/10	04/29/10	0.05	U	
Arsenic	200.8	0.5	1.0	04/27/10	04/29/10	0.5	U	
Barium	200.8	0.10	1.0	04/27/10	04/29/10	0.10	U	
Beryllium	200.8	0.02	1.0	04/27/10	04/29/10	0.02	U	
Cadmium	200.8	0.02	1.0	04/27/10	04/29/10	0.02	U	
Calcium	200.7	50.0	1.0	04/27/10	05/03/10	50.0	U	
Chromium	200.8	0.2	1.0	04/27/10	04/29/10	0.2	U	
Copper	200.8	0.1	1.0	04/27/10	04/29/10	0.1	U	
Iron	200.7	10.0	1.0	04/27/10	05/03/10	10.0	U	
Lead	200.8	0.02	1.0	04/27/10	04/29/10	0.02	U	
Magnesium	200.7	10.0	1.0	04/27/10	05/03/10	10.0	U	
Manganese	200.7	0.6	1.0	04/27/10	05/03/10	0.6	U	
Nickel	200.8	0.2	1.0	04/27/10	04/29/10	0.2	U	
Potassium	200.7	100	1.0	04/27/10	05/03/10	100	U	
Selenium	200.8	1.0	1.0	04/27/10	04/29/10	1.0	U	
Silicon	200.7	50.0	1.0	04/27/10	05/03/10	50.0	U	
Silver	200.8	0.02	1.0	04/27/10	04/29/10	0.02	U	
Sodium	200.7	200	1.0	04/27/10	05/03/10	200	U	
Thallium	200.8	0.02	1.0	04/27/10	04/29/10	0.02	U	
Uranium	200.8	0.020	1.0	04/27/10	04/29/10	0.020	U	
Zinc	200.7	2.0	1.0	04/27/10	05/03/10	2.0	U	

% Solids: 0.0

Comments:

METALS

- 5A -

SPIKE SAMPLE RECOVERY

Client: Kennedy/Jenks Consultants, Incor **Service Request:** K1003999

Project No.: 0997003 *00 **Units:** UG/L

Project Name: Mint Farm RWTP **Basis:** N/A

Matrix: WATER **% Solids:** 0.0

Sample Name: Batch QCS **Lab Code:** K1004035-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum	70 - 130	1960		50.0	U	2000.00	98.0		200.7
Antimony	70 - 130	19.2		0.05	U	20.00	96.0		200.8
Arsenic	70 - 130	21.4		3.2		20.00	91.0		200.8
Barium	70 - 130	19.4		0.37		20.00	95.2		200.8
Beryllium	70 - 130	18.5		0.02	U	20.00	92.5		200.8
Cadmium	70 - 130	19.1		0.02	U	20.00	95.5		200.8
Chromium	70 - 130	16.9		0.2	U	20.00	84.5		200.8
Copper	70 - 130	17.5		0.1		20.00	87.0		200.8
Iron	70 - 130	1020		10.0	U	1000.00	102.0		200.7
Lead	70 - 130	18.8		0.02	U	20.00	94.0		200.8
Manganese	70 - 130	461		1.8		500.00	91.8		200.7
Nickel	70 - 130	17.4		0.4		20.00	85.0		200.8
Selenium	70 - 130	19.9		1.0	U	20.00	99.5		200.8
Silicon	70 - 130	34100		24800		10000.00	93.0		200.7
Silver	70 - 130	20.5		0.02	U	20.00	102.5		200.8
Thallium	70 - 130	18.8		0.02	U	20.00	94.0		200.8
Uranium	70 - 130	19.4		0.023		20.00	96.9		200.8
Zinc	70 - 130	514		2.0	U	500.00	102.8		200.7

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

METALS

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DUPLICATES

Client: Kennedy/Jenks Consultants, Incor Service Request: K1003999

Project No.: 0997003 *00 Units: UG/L

Project Name: Mint Farm RWTP Basis: N/A

Matrix: WATER % Solids: 0.0

Sample Name: Batch QCD Lab Code: K1004035-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		2.3		2.0		14.0		200.7
Antimony		0.05	U	0.05	U			200.8
Arsenic	20	3.2		3.1		3.2		200.8
Barium		0.37		0.36		2.7		200.8
Beryllium		0.02	U	0.02	U			200.8
Cadmium		0.02	U	0.02	U			200.8
Calcium	20	23600		21800		7.9		200.7
Chromium		0.2	U	0.2	U			200.8
Copper		0.1		0.1		0.0		200.8
Iron		10.0	U	10.0	U			200.7
Lead		0.02	U	0.02	U			200.8
Magnesium	20	5320		5130		3.6		200.7
Manganese		1.8		1.6		11.8		200.7
Nickel		0.4		0.4		0.0		200.8
Potassium	20	3280		3250		0.9		200.7
Selenium		1.0	U	1.0	U			200.8
Silicon	20	24800		24600		0.8		200.7
Silver		0.02	U	0.02	U			200.8
Sodium	20	13400		12900		3.8		200.7
Thallium		0.02	U	0.02	U			200.8
Uranium		0.023		0.020	U	200.0		200.8
Zinc		2.0	U	2.0	U			200.7

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

METALS

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LABORATORY CONTROL SAMPLE

Client: Kennedy/Jenks Consultants, Incor **Service Request:** K1003999

Project No.: 0997003 *00

Project Name: Mint Farm RWTP

Aqueous LCS Source: CAS MIXED **Solid LCS Source:**

Analyte	Aqueous: ug/L			Solid: mg/kg				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	5000	4920	98.4					
Antimony	20	20.3	101.5					
Arsenic	20	19.5	97.5					
Barium	20	20.1	100.5					
Beryllium	20	19.7	98.5					
Cadmium	20	20.7	103.5					
Calcium	12500	12400	99.2					
Chromium	20	20.1	100.5					
Copper	20	19.9	99.5					
Iron	2500	2450	98.0					
Lead	20	20.3	101.5					
Magnesium	12500	11500	92.0					
Manganese	1250	1120	89.6					
Nickel	20	19.8	99.0					
Potassium	12500	12400	99.2					
Selenium	20	20.2	101.0					
Silicon	10000	9260	92.6					
Silver	20	22.3	111.5					
Sodium	12500	11900	95.2					
Thallium	20	20.3	101.5					
Uranium	20	20.8	104.0					
Zinc	1250	1270	101.6					

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Water

Service Request: K1003999
Date Collected: 04/23/2010
Date Received: 04/23/2010

Volatile Organic Compounds

Sample Name: PW1-042310
Lab Code: K1003999-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Vinyl Chloride	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromomethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Trichlorofluoromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Methylene Chloride	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1-Dichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chloroform	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromochloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Carbon Tetrachloride	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Benzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Trichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromodichloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Dibromomethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1-Dichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Toluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Tetrachloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
2,2-Dichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,3-Dichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Dibromochloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Ethylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Styrene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
m,p-Xylenes	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
o-Xylene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Water

Service Request: K1003999
Date Collected: 04/23/2010
Date Received: 04/23/2010

Volatile Organic Compounds

Sample Name: PW1-042310
Lab Code: K1003999-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromoform	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Isopropylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1-Dichloropropene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
n-Propylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,3,5-Trimethylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
2-Chlorotoluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
4-Chlorotoluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
tert-Butylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,4-Trimethylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
sec-Butylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
p-Isopropyltoluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,3-Dichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,4-Dichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
n-Butylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,4-Trichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Hexachlorobutadiene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Naphthalene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1,2-Trichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,3-Trichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,3-Trichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	91	69-114	04/26/10	Acceptable
Dibromofluoromethane	98	82-124	04/26/10	Acceptable
Toluene-d8	98	84-124	04/26/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Water

Service Request: K1003999
Date Collected: 04/23/2010
Date Received: 04/23/2010

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1003999-002

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Vinyl Chloride	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromomethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Trichlorofluoromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Methylene Chloride	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1-Dichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chloroform	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromochloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Carbon Tetrachloride	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Benzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Trichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromodichloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Dibromomethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1-Dichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Toluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Tetrachloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
2,2-Dichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,3-Dichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Dibromochloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Ethylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Styrene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
m,p-Xylenes	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
o-Xylene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Water

Service Request: K1003999
Date Collected: 04/23/2010
Date Received: 04/23/2010

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1003999-002

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromoform	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Isopropylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1-Dichloropropene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
n-Propylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,3,5-Trimethylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
2-Chlorotoluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
4-Chlorotoluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
tert-Butylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,4-Trimethylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
sec-Butylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
p-Isopropyltoluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,3-Dichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,4-Dichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
n-Butylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,4-Trichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Hexachlorobutadiene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Naphthalene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1,2-Trichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,3-Trichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,3-Trichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	91	69-114	04/26/10	Acceptable
Dibromofluoromethane	98	82-124	04/26/10	Acceptable
Toluene-d8	98	84-124	04/26/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Water

Service Request: K1003999
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1003700-2

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Vinyl Chloride	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromomethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Trichlorofluoromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Methylene Chloride	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
trans-1,2-Dichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1-Dichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
cis-1,2-Dichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Methyl tert-Butyl Ether	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chloroform	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromochloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Carbon Tetrachloride	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Benzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Trichloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromodichloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Dibromomethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
cis-1,3-Dichloropropene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1-Dichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Toluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
trans-1,3-Dichloropropene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Tetrachloroethene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
2,2-Dichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,3-Dichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Dibromochloromethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Chlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Ethylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Styrene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
m,p-Xylenes	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
o-Xylene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Water

Service Request: K1003999
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1003700-2

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromoform	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Isopropylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1-Dichloropropene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Bromobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
n-Propylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,3,5-Trimethylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
2-Chlorotoluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
4-Chlorotoluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
tert-Butylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,4-Trimethylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
sec-Butylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
p-Isopropyltoluene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,3-Dichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,4-Dichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
n-Butylbenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,4-Trichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Hexachlorobutadiene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
Naphthalene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1,2-Trichloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,3-Trichloropropane	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	
1,2,3-Trichlorobenzene	ND	U	0.50	1	04/26/10	04/26/10	KWG1003700	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	91	69-114	04/26/10	Acceptable
Dibromofluoromethane	96	82-124	04/26/10	Acceptable
Toluene-d8	99	84-124	04/26/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Water

Service Request: K1003999

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: METHOD
Analysis Method: 524.2

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
PW1-042310	K1003999-001	91	98	98
Trip Blank	K1003999-002	91	98	98
Method Blank	KWG1003700-2	91	96	99
Lab Control Sample	KWG1003700-1	102	95	109

Surrogate Recovery Control Limits (%)

Sur1	4-Bromofluorobenzene	69-114
Sur2	Dibromofluoromethane	82-124
Sur3	Toluene-d8	84-124

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

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

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Water

Service Request: K1003999
Date Extracted: 04/26/2010
Date Analyzed: 04/26/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: METHOD
Analysis Method: 524.2

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1003700

	Lab Control Sample KWG1003700-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Dichlorodifluoromethane	4.49	5.00	90	70-130
Chloromethane	5.07	5.00	101	70-130
Vinyl Chloride	5.82	5.00	116	70-130
Bromomethane	5.61	5.00	112	70-130
Chloroethane	5.80	5.00	116	70-130
Trichlorofluoromethane	5.95	5.00	119	70-130
Methylene Chloride	5.36	5.00	107	70-130
trans-1,2-Dichloroethene	6.00	5.00	120	70-130
1,1-Dichloroethene	6.32	5.00	126	70-130
cis-1,2-Dichloroethene	5.60	5.00	112	70-130
Methyl tert-Butyl Ether	8.95	10.0	90	70-130
Chloroform	5.29	5.00	106	70-130
Bromochloromethane	5.49	5.00	110	70-130
Carbon Tetrachloride	5.75	5.00	115	70-130
Benzene	5.68	5.00	114	70-130
1,2-Dichloroethane	4.85	5.00	97	70-130
Trichloroethene	5.61	5.00	112	70-130
1,2-Dichloropropane	5.30	5.00	106	70-130
Bromodichloromethane	5.09	5.00	102	70-130
Dibromomethane	5.16	5.00	103	70-130
cis-1,3-Dichloropropene	4.81	5.00	96	70-130
1,1-Dichloroethane	5.66	5.00	113	70-130
Toluene	5.73	5.00	115	70-130
trans-1,3-Dichloropropene	4.78	5.00	96	70-130
Tetrachloroethene	6.07	5.00	121	70-130
2,2-Dichloropropane	5.49	5.00	110	70-130
1,3-Dichloropropane	5.26	5.00	105	70-130
Dibromochloromethane	5.36	5.00	107	70-130
1,2-Dibromoethane (EDB)	5.38	5.00	108	70-130
Chlorobenzene	5.62	5.00	112	70-130
Ethylbenzene	5.97	5.00	119	70-130
Styrene	5.62	5.00	112	70-130
m,p-Xylenes	12.0	10.0	120	70-130
o-Xylene	5.77	5.00	115	70-130
1,1,1-Trichloroethane	5.45	5.00	109	70-130
Bromoform	5.27	5.00	105	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.

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Water

Service Request: K1003999
Date Extracted: 04/26/2010
Date Analyzed: 04/26/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: METHOD
Analysis Method: 524.2

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1003700

Analyte Name	Lab Control Sample KWG1003700-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	4.85	5.00	97	70-130
Isopropylbenzene	5.92	5.00	118	70-130
1,1-Dichloropropene	5.50	5.00	110	70-130
Bromobenzene	5.18	5.00	104	70-130
n-Propylbenzene	5.46	5.00	109	70-130
1,3,5-Trimethylbenzene	5.42	5.00	108	70-130
2-Chlorotoluene	5.17	5.00	103	70-130
4-Chlorotoluene	5.22	5.00	104	70-130
tert-Butylbenzene	5.48	5.00	110	70-130
1,2,4-Trimethylbenzene	5.42	5.00	108	70-130
sec-Butylbenzene	5.67	5.00	113	70-130
p-Isopropyltoluene	5.71	5.00	114	70-130
1,3-Dichlorobenzene	5.44	5.00	109	70-130
1,4-Dichlorobenzene	5.17	5.00	103	70-130
n-Butylbenzene	5.49	5.00	110	70-130
1,2-Dichlorobenzene	5.32	5.00	106	70-130
1,2-Dibromo-3-chloropropane (DBCP	4.43	5.00	89	70-130
1,2,4-Trichlorobenzene	4.81	5.00	96	70-130
Hexachlorobutadiene	5.40	5.00	108	70-130
Naphthalene	4.43	5.00	89	70-130
1,1,2-Trichloroethane	5.34	5.00	107	70-130
1,1,1,2-Tetrachloroethane	5.40	5.00	108	70-130
1,2,3-Trichloropropane	4.64	5.00	93	70-130
1,2,3-Trichlorobenzene	4.93	5.00	99	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.

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Water

Service Request: K1003999
Date Collected: 04/23/2010
Date Received: 04/23/2010

Semivolatile Organics by EPA method 525.2

Sample Name: PW1-042310
Lab Code: K1003999-001

Extraction Method: METHOD
Analysis Method: 525.2

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.097	1	05/03/10	05/12/10	KWG1004002	
Hexachlorobenzene	ND	U	0.097	1	05/03/10	05/12/10	KWG1004002	
Simazine	ND	U	0.049	1	05/03/10	05/12/10	KWG1004002	
Atrazine	ND	U	0.097	1	05/03/10	05/12/10	KWG1004002	
Alachlor	ND	U	0.070	1	05/03/10	05/12/10	KWG1004002	
Bis(2-ethylhexyl) Adipate	ND	U	0.58	1	05/03/10	05/12/10	KWG1004002	
Bis(2-ethylhexyl) Phthalate	ND	U	0.58	1	05/03/10	05/12/10	KWG1004002	
Benzo(a)pyrene	ND	U	0.020	1	05/03/10	05/12/10	KWG1004002	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	109	70-130	05/12/10	Acceptable
Triphenyl Phosphate	99	70-130	05/12/10	Acceptable
Perylene-d12	82	70-130	05/12/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Drinking water

Service Request: K1003999
Date Collected: NA
Date Received: NA

Semivolatile Organics by EPA method 525.2

Sample Name: Method Blank
Lab Code: KWG1004002-4

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.10	1	05/03/10	05/04/10	KWG1004002	
Hexachlorobenzene	ND	U	0.10	1	05/03/10	05/04/10	KWG1004002	
Simazine	ND	U	0.050	1	05/03/10	05/04/10	KWG1004002	
Atrazine	ND	U	0.10	1	05/03/10	05/04/10	KWG1004002	
Alachlor	ND	U	0.072	1	05/03/10	05/04/10	KWG1004002	
Bis(2-ethylhexyl) Adipate	ND	U	0.60	1	05/03/10	05/04/10	KWG1004002	
Bis(2-ethylhexyl) Phthalate	ND	U	0.60	1	05/03/10	05/04/10	KWG1004002	
Benzo(a)pyrene	ND	U	0.020	1	05/03/10	05/04/10	KWG1004002	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	93	70-130	05/04/10	Acceptable
Triphenyl Phosphate	100	70-130	05/04/10	Acceptable
Perylene-d12	113	70-130	05/04/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Water

Service Request: K1003999

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
PW1-042310	K1003999-001	109	99	82
Method Blank	KWG1004002-4	93	100	113
Batch QC	K1003954-004	108	103	109
Batch QCMS	KWG1004002-1	102	103	109
Batch QCDMS	KWG1004002-2	103	98	110
Lab Control Sample	KWG1004002-3	101	113	114

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.

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Drinking water

Service Request: K1003999
Date Extracted: 05/03/2010
Date Analyzed: 05/04/2010

Matrix Spike/Duplicate Matrix Spike Summary
Semivolatile Organics by EPA method 525.2

Sample Name: Batch QC
Lab Code: K1003954-004

Extraction Method: METHOD
Analysis Method: 525.2

Units: ug/L
Basis: NA

Level: Low
Extraction Lot: KWG1004002

Analyte Name	Sample Result	Batch QCMS KWG1004002-1 Matrix Spike			Batch QCDMS KWG1004002-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Hexachlorocyclopentadiene	ND	1.04	0.962	108	1.02	0.962	106	70-130	2	30
Hexachlorobenzene	ND	0.997	0.962	104	1.04	0.962	109	70-130	5	30
Simazine	0.16	1.13	0.962	100	1.05	0.962	92	70-130	7	30
Atrazine	0.20	1.18	0.962	102	1.10	0.962	93	70-130	7	30
Alachlor	ND	0.933	0.962	97	0.901	0.962	94	70-130	4	30
Bis(2-ethylhexyl) Adipate	ND	0.926	0.962	96	0.925	0.962	96	70-130	0	30
Bis(2-ethylhexyl) Phthalate	ND	1.12	0.962	116	1.06	0.962	111	70-130	5	30
Benzo(a)pyrene	ND	1.05	0.962	110	1.02	0.962	106	70-130	3	30

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

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

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

Client: Kennedy/Jenks Consultants, Incorporated
Project: Mint Farm RWTP/0997003 *00
Sample Matrix: Drinking water

Service Request: K1003999
Date Extracted: 05/03/2010
Date Analyzed: 05/04/2010

Lab Control Spike Summary
Semivolatile Organics by EPA method 525.2

Extraction Method: METHOD
Analysis Method: 525.2

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1004002

Analyte Name	Lab Control Sample KWG1004002-3 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Hexachlorocyclopentadiene	1.14	1.00	114	70-130
Hexachlorobenzene	1.15	1.00	115	70-130
Simazine	1.17	1.00	117	70-130
Atrazine	1.09	1.00	109	70-130
Alachlor	1.11	1.00	111	70-130
Bis(2-ethylhexyl) Adipate	1.01	1.00	101	70-130
Bis(2-ethylhexyl) Phthalate	1.27	1.00	127	70-130
Benzo(a)pyrene	1.20	1.00	120	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.

CHAIN OF CUSTODY

Columbia Analytical Services™
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: K1003999 PAGE 1 OF 1 COC #

PROJECT NAME: Mint Farm RWTP
PROJECT NUMBER: 0997003 *00 1
PROJECT MANAGER: Don Larson
COMPANY/ADDRESS: KJ Consultants
200 SW Market St, Suite 500
CITY/STATE/ZIP: Portland, OR 97201
E-MAIL ADDRESS:
PHONE # 503-295-4911 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐ ☐Fuel Fingerprint (FIQ) ☐NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020☐ AOX 1650☐ 506☐	Sem. Volatiles 525.2 PAHs	VOC ☐ 524.2			REMARKS
PW1-042310	4/23/10	1730		W	6									X					X	X				
~~Field~~																								
Trip Blanks	2			W	2															X				

REPORT REQUIREMENTS

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

INVOICE INFORMATION

P.O. #
Bill To: City of Longview Amy Blick

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
✓ Standard (10-15 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:

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

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Printed Name: Don Larson	Printed Name: Ron Moeller	Printed Name:	Printed Name: John Long
Date/Time: 4/23/10 18:20	Date/Time: 4/23/10 @ 1816	Date/Time:	Date/Time: 4/23/10 1905
Firm:	Firm: PJ	Firm:	Firm: CAS

RCOC #1 03/10

PC 464

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client / Project: Kennedy Jenks Service Request K10 03999

Received: 4/23/10 Opened: 4/23/10 By: [signature]

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

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
*17.5	14.4	259			

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

Sample ID on Bottle	Sample ID on COC	Identified by:

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

Notes, Discrepancies, & Resolutions: *Sample was collected today 4/23/10

Columbia Analytical Services, INC
1317 S. 13th Avenue, Kelso, WA 98626 360.577.7222 360.636.1068 (fax) www.caslab.com

June 16, 2010 Analytical Report for Service Request No: K1005176

Don Larson
Kennedy/Jenks Consultants, Incorporated
200 SW Market St., Suite 500
Portland, OR 97201-5715

RE: City of Longview/0997003.00

Dear Don:

Enclosed are the results of the samples submitted to our laboratory on May 20, 2010. For your reference, these analyses have been assigned our service request number K1005176.

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

Please call if you have any questions. My extension is 3358. You may also contact me via Email at LHuckestein@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Lynda Huckestein
Client Services Manager

LH/ln

100% Recycled Paper.

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
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 that was detected outside the quantitation range.
U	The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL. *DOD-QSM 4.1 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.

Metals Data Qualifiers

#	The control limit criteria is not applicable. See case narrative.
J	The result is an estimated value that was detected outside the quantitation range.
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 4.1 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 estimate amount because the value exceeded the instrument calibration range.
J	The result is an estimated value that was detected outside the quantitation range.
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 4.1 definition* : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
i	The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
X	See case narrative.
Q	See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

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

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Client:	Kennedy/Jenks Consultants, Inc.	**Service Request No.:**	K1005176
Project:	City of Longview	**Date Received:**	5/20/2010
Sample Matrix:	Water		

CASE NARRATIVE

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

Sample Receipt

Seven water samples and a Trip Blank were received for analysis at Columbia Analytical Services on 5/20/2010. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Total Metals

No 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.

Semivolatile Organic Compounds by EPA Method 525

Matrix Spike Recovery Exceptions:
The matrix spike recoveries of Atrazine, Simazine and Benzo(a)pyrene for sample Batch QC were outside control criteria. Recoveries in the Laboratory Control Sample (LCS) were acceptable, which indicates the analytical batch was in control. The matrix spike outliers suggest potential low biases in this matrix. No further corrective action was appropriate.

Surrogate Exceptions:
The control criteria were exceeded for the surrogate Perylene-d12 in sample Batch QCMS due to suspected sample matrix interferences. The sample contained particulate matter that collected on the extraction disk during sample elution. Historical results have shown that such particulate matter accumulation can cause low recoveries for this surrogate. Recoveries of the other surrogates were within control criteria. No further corrective action was appropriate.

Approved by _____ **Date** 6/14/10

- Cover Page -
INORGANIC ANALYSIS DATA PACKAGE

Client: Kennedy/Jenks Consultants, Incorporated
Project Name: City of Longview
Project No.: 0997003.00
Service Request: K1005176

Sample Name:	Lab Code:
DW-9-100519	K1005176-001
DW-9-100519D	K1005176-001D
DW-9-100519S	K1005176-001S
DW-2-100519	K1005176-002
DW-2-100519D	K1005176-002D
DW-2-100519S	K1005176-002S
DW-1-100519	K1005176-003
DW-1-100519D	K1005176-003D
DW-1-100519S	K1005176-003S
DW-6-100520	K1005176-004
DW-6-100520D	K1005176-004D
DW-6-100520S	K1005176-004S
DW-5-100520	K1005176-005
DW-7-100520	K1005176-006
QCFD1-100520	K1005176-007
Method Blank	K1005176-MB

Comments:

Approved By: SC **Date:** 6/11/14

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1005176
Project No.:	0997003.00	**Date Collected:**	5/19/2010
Project Name:	City of Longview	**Date Received:**	5/20/2010
Matrix:	WATER	**Units:**	ug/L
		Basis:	N/A

Sample Name: DW-9-100519 **Lab Code:** K1005176-001

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	06/06/10	06/08/10	4.3		
Antimony	200.8	0.05	1.0	06/06/10	06/08/10	0.05	U	
Arsenic	200.8	0.5	1.0	06/06/10	06/08/10	4.5		
Barium	200.8	0.05	1.0	06/06/10	06/08/10	11.4		
Beryllium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Cadmium	200.8	0.02	1.0	06/06/10	06/08/10	0.03		
Calcium	200.7	50.0	1.0	06/06/10	06/08/10	23400		
Chromium	200.8	0.2	1.0	06/06/10	06/08/10	0.2	U	
Copper	200.8	0.1	1.0	06/06/10	06/08/10	0.1	U	
Iron	200.7	10.0	1.0	06/06/10	06/08/10	688		
Lead	200.8	0.02	1.0	06/06/10	06/08/10	0.02		
Magnesium	200.7	10.0	1.0	06/06/10	06/08/10	5700		
Manganese	200.7	0.6	1.0	06/06/10	06/08/10	550		
Nickel	200.8	0.2	1.0	06/06/10	06/08/10	0.5		
Potassium	200.7	400	1.0	06/06/10	06/08/10	3360		
Selenium	200.8	1.0	1.0	06/06/10	06/08/10	1.0	U	
Silicon	200.7	50.0	1.0	06/06/10	06/08/10	25900		
Silver	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Sodium	200.7	200	1.0	06/06/10	06/08/10	9450		
Thallium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Uranium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Zinc	200.7	2.0	1.0	06/06/10	06/08/10	2.0	U	

% Solids: 0.0

Comments:

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1005176
Project No.:	0997003.00	**Date Collected:**	5/19/2010
Project Name:	City of Longview	**Date Received:**	5/20/2010
Matrix:	WATER	**Units:**	ug/L
		Basis:	N/A

Sample Name: DW-2-100519 **Lab Code:** K1005176-002

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	06/06/10	06/08/10	64.0		
Antimony	200.8	0.05	1.0	06/06/10	06/08/10	0.05	U	
Arsenic	200.8	0.5	1.0	06/06/10	06/08/10	5.2		
Barium	200.8	0.05	1.0	06/06/10	06/08/10	24.1		
Beryllium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Cadmium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Calcium	200.7	50.0	1.0	06/06/10	06/08/10	30600		
Chromium	200.8	0.2	1.0	06/06/10	06/08/10	0.2	U	
Copper	200.8	0.1	1.0	06/06/10	06/08/10	0.2		
Iron	200.7	10.0	1.0	06/06/10	06/08/10	571		
Lead	200.8	0.02	1.0	06/06/10	06/08/10	0.04		
Magnesium	200.7	10.0	1.0	06/06/10	06/08/10	10500		
Manganese	200.7	0.6	1.0	06/06/10	06/08/10	257		
Nickel	200.8	0.2	1.0	06/06/10	06/08/10	0.6		
Potassium	200.7	400	1.0	06/06/10	06/08/10	5750		
Selenium	200.8	1.0	1.0	06/06/10	06/08/10	1.0	U	
Silicon	200.7	50.0	1.0	06/06/10	06/08/10	19900		
Silver	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Sodium	200.7	200	1.0	06/06/10	06/08/10	15500		
Thallium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Uranium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Zinc	200.7	2.0	1.0	06/06/10	06/08/10	2.0	U	

% Solids: 0.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1005176
Project No.:	0997003.00	**Date Collected:**	5/19/2010
Project Name:	City of Longview	**Date Received:**	5/20/2010
Matrix:	WATER	**Units:**	ug/L
		Basis:	N/A

Sample Name: DW-1-100519 **Lab Code:** K1005176-003

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	06/06/10	06/08/10	2.1		
Antimony	200.8	0.05	1.0	06/06/10	06/08/10	0.05	U	
Arsenic	200.8	0.5	1.0	06/06/10	06/08/10	3.9		
Barium	200.8	0.05	1.0	06/06/10	06/08/10	11.3		
Beryllium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Cadmium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Calcium	200.7	50.0	1.0	06/06/10	06/08/10	20300		
Chromium	200.8	0.2	1.0	06/06/10	06/08/10	0.2	U	
Copper	200.8	0.1	1.0	06/06/10	06/08/10	0.2		
Iron	200.7	10.0	1.0	06/06/10	06/08/10	2290		
Lead	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Magnesium	200.7	10.0	1.0	06/06/10	06/08/10	5020		
Manganese	200.7	0.6	1.0	06/06/10	06/08/10	552		
Nickel	200.8	0.2	1.0	06/06/10	06/08/10	0.4		
Potassium	200.7	400	1.0	06/06/10	06/08/10	2650		
Selenium	200.8	1.0	1.0	06/06/10	06/08/10	1.0	U	
Silicon	200.7	50.0	1.0	06/06/10	06/08/10	25500		
Silver	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Sodium	200.7	200	1.0	06/06/10	06/08/10	8880		
Thallium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Uranium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Zinc	200.7	2.0	1.0	06/06/10	06/08/10	2.0	U	

% Solids: 0.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1005176
Project No.:	0997003.00	**Date Collected:**	5/20/2010
Project Name:	City of Longview	**Date Received:**	5/20/2010
Matrix:	WATER	**Units:**	ug/L
		Basis:	N/A

Sample Name: DW-6-100520 **Lab Code:** K1005176-004

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	06/06/10	06/08/10	49.2		
Antimony	200.8	0.05	1.0	06/06/10	06/08/10	0.05	U	
Arsenic	200.8	0.5	1.0	06/06/10	06/08/10	3.8		
Barium	200.8	0.05	1.0	06/06/10	06/08/10	14.1		
Beryllium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Cadmium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Calcium	200.7	50.0	1.0	06/06/10	06/08/10	28400		
Chromium	200.8	0.2	1.0	06/06/10	06/08/10	0.2	U	
Copper	200.8	0.1	1.0	06/06/10	06/08/10	0.1	U	
Iron	200.7	10.0	1.0	06/06/10	06/08/10	580		
Lead	200.8	0.02	1.0	06/06/10	06/08/10	0.07		
Magnesium	200.7	10.0	1.0	06/06/10	06/08/10	7990		
Manganese	200.7	0.6	1.0	06/06/10	06/08/10	432		
Nickel	200.8	0.2	1.0	06/06/10	06/08/10	0.6		
Potassium	200.7	400	1.0	06/06/10	06/08/10	3900		
Selenium	200.8	1.0	1.0	06/06/10	06/08/10	1.0	U	
Silicon	200.7	50.0	1.0	06/06/10	06/08/10	23800		
Silver	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Sodium	200.7	200	1.0	06/06/10	06/08/10	10900		
Thallium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Uranium	200.8	0.02	1.0	06/06/10	06/08/10	0.04		
Zinc	200.7	2.0	1.0	06/06/10	06/08/10	2.0	U	

% Solids: 0.0

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1005176
Project No.:	0997003.00	**Date Collected:**	5/20/2010
Project Name:	City of Longview	**Date Received:**	5/20/2010
Matrix:	WATER	**Units:**	ug/L
		Basis:	N/A

Sample Name: DW-5-100520 **Lab Code:** K1005176-005

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	06/06/10	06/08/10	2.7		
Antimony	200.8	0.05	1.0	06/06/10	06/08/10	0.05	U	
Arsenic	200.8	0.5	1.0	06/06/10	06/08/10	5.4		
Barium	200.8	0.05	1.0	06/06/10	06/08/10	13.9		
Beryllium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Cadmium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Calcium	200.7	50.0	1.0	06/06/10	06/08/10	31400		
Chromium	200.8	0.2	1.0	06/06/10	06/08/10	0.2	U	
Copper	200.8	0.1	1.0	06/06/10	06/08/10	0.1	U	
Iron	200.7	10.0	1.0	06/06/10	06/08/10	404		
Lead	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Magnesium	200.7	10.0	1.0	06/06/10	06/08/10	10000		
Manganese	200.7	0.6	1.0	06/06/10	06/08/10	287		
Nickel	200.8	0.2	1.0	06/06/10	06/08/10	0.5		
Potassium	200.7	400	1.0	06/06/10	06/08/10	4350		
Selenium	200.8	1.0	1.0	06/06/10	06/08/10	1.0	U	
Silicon	200.7	50.0	1.0	06/06/10	06/08/10	23000		
Silver	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Sodium	200.7	200	1.0	06/06/10	06/08/10	12300		
Thallium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Uranium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Zinc	200.7	2.0	1.0	06/06/10	06/08/10	2.0	U	

% Solids: 0.0

Comments:

METALS

- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1005176
Project No.:	0997003.00	**Date Collected:**	5/20/2010
Project Name:	City of Longview	**Date Received:**	5/20/2010
Matrix:	WATER	**Units:**	ug/L
		Basis:	N/A

Sample Name: DW-7-100520 **Lab Code:** K1005176-006

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	06/06/10	06/08/10	2.0	U	
Antimony	200.8	0.05	1.0	06/06/10	06/08/10	0.05	U	
Arsenic	200.8	0.5	1.0	06/06/10	06/08/10	4.4		
Barium	200.8	0.05	1.0	06/06/10	06/08/10	10.9		
Beryllium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Cadmium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Calcium	200.7	50.0	1.0	06/06/10	06/08/10	20800		
Chromium	200.8	0.2	1.0	06/06/10	06/08/10	0.2	U	
Copper	200.8	0.1	1.0	06/06/10	06/08/10	0.1	U	
Iron	200.7	10.0	1.0	06/06/10	06/08/10	1210		
Lead	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Magnesium	200.7	10.0	1.0	06/06/10	06/08/10	5130		
Manganese	200.7	0.6	1.0	06/06/10	06/08/10	660		
Nickel	200.8	0.2	1.0	06/06/10	06/08/10	0.4		
Potassium	200.7	400	1.0	06/06/10	06/08/10	2940		
Selenium	200.8	1.0	1.0	06/06/10	06/08/10	1.0	U	
Silicon	200.7	50.0	1.0	06/06/10	06/08/10	25100		
Silver	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Sodium	200.7	200	1.0	06/06/10	06/08/10	8820		
Thallium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Uranium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Zinc	200.7	2.0	1.0	06/06/10	06/08/10	2.0	U	

% Solids: 0.0

Comments:

METALS

- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1005176
Project No.:	0997003.00	**Date Collected:**	5/20/2010
Project Name:	City of Longview	**Date Received:**	5/20/2010
Matrix:	WATER	**Units:**	ug/L
		Basis:	N/A

Sample Name: QCFD1-100520 **Lab Code:** K1005176-007

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	06/06/10	06/08/10	2.2		
Antimony	200.8	0.05	1.0	06/06/10	06/08/10	0.05	U	
Arsenic	200.8	0.5	1.0	06/06/10	06/08/10	5.4		
Barium	200.8	0.05	1.0	06/06/10	06/08/10	13.9		
Beryllium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Cadmium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Calcium	200.7	50.0	1.0	06/06/10	06/08/10	31100		
Chromium	200.8	0.2	1.0	06/06/10	06/08/10	0.2	U	
Copper	200.8	0.1	1.0	06/06/10	06/08/10	0.1	U	
Iron	200.7	10.0	1.0	06/06/10	06/08/10	405		
Lead	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Magnesium	200.7	10.0	1.0	06/06/10	06/08/10	9990		
Manganese	200.7	0.6	1.0	06/06/10	06/08/10	286		
Nickel	200.8	0.2	1.0	06/06/10	06/08/10	0.6		
Potassium	200.7	400	1.0	06/06/10	06/08/10	4280		
Selenium	200.8	1.0	1.0	06/06/10	06/08/10	1.0	U	
Silicon	200.7	50.0	1.0	06/06/10	06/08/10	22800		
Silver	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Sodium	200.7	200	1.0	06/06/10	06/08/10	12300		
Thallium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Uranium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Zinc	200.7	2.0	1.0	06/06/10	06/08/10	2.0	U	

% Solids: 0.0

Comments:

METALS

- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: Kennedy/Jenks Consultants, Incor
Service Request: K1005176
Project No.: 0997003.00
Date Collected:
Project Name: City of Longview
Date Received:
Matrix: WATER
Units: ug/L
Basis: N/A

Sample Name: Method Blank
Lab Code: K1005176-MB

Analyte	Analysis Method	MRL	Dilution Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	2.0	1.0	06/06/10	06/08/10	2.0	U	
Antimony	200.8	0.05	1.0	06/06/10	06/08/10	0.05	U	
Arsenic	200.8	0.5	1.0	06/06/10	06/08/10	0.5	U	
Barium	200.8	0.05	1.0	06/06/10	06/08/10	0.05	U	
Beryllium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Cadmium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Calcium	200.7	50.0	1.0	06/06/10	06/08/10	50.0	U	
Chromium	200.8	0.2	1.0	06/06/10	06/08/10	0.2	U	
Copper	200.8	0.1	1.0	06/06/10	06/08/10	0.1	U	
Iron	200.7	10.0	1.0	06/06/10	06/08/10	10.0	U	
Lead	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Magnesium	200.7	10.0	1.0	06/06/10	06/08/10	10.0	U	
Manganese	200.7	0.6	1.0	06/06/10	06/08/10	0.6	U	
Nickel	200.8	0.2	1.0	06/06/10	06/08/10	0.2	U	
Potassium	200.7	400	1.0	06/06/10	06/08/10	400	U	
Selenium	200.8	1.0	1.0	06/06/10	06/08/10	1.0	U	
Silicon	200.7	50.0	1.0	06/06/10	06/08/10	50.0	U	
Silver	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Sodium	200.7	200	1.0	06/06/10	06/08/10	200	U	
Thallium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Uranium	200.8	0.02	1.0	06/06/10	06/08/10	0.02	U	
Zinc	200.7	2.0	1.0	06/06/10	06/08/10	2.0	U	

% Solids: 0.0

Comments:

METALS

- 5A -

SPIKE SAMPLE RECOVERY

Client: Kennedy/Jenks Consultants, Incor **Service Request:** K1005176

Project No.: 0997003.00 **Units:** UG/L

Project Name: City of Longview **Basis:** N/A

Matrix: WATER **% Solids:** 0.0

Sample Name: DW-9-100519S **Lab Code:** K1005176-001S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum	70 - 130	2010		50.0	U	2000.00	100.5		200.7
Iron	70 - 130	1670		688		1000.00	98.2		200.7
Manganese	70 - 130	1050		550		500.00	100.0		200.7
Silicon	70 - 130	36000		25900		10000.00	101.0		200.7
Zinc	70 - 130	490		2.0	U	500.00	98.0		200.7

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

METALS

- 5A -

SPIKE SAMPLE RECOVERY

Client: Kennedy/Jenks Consultants, Incor **Service Request:** K1005176

Project No.: 0997003.00 **Units:** UG/L

Project Name: City of Longview **Basis:** N/A

Matrix: WATER **% Solids:** 0.0

Sample Name: DW-2-100519S **Lab Code:** K1005176-002S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	70 - 130	20.6		0.05	U	20.00	103.0		200.8
Arsenic	70 - 130	25.0		5.2		20.00	99.0		200.8
Barium	70 - 130	44.1		24.1		20.00	100.0		200.8
Beryllium	70 - 130	20.9		0.02	U	20.00	104.5		200.8
Cadmium	70 - 130	20.3		0.02	U	20.00	101.5		200.8
Chromium	70 - 130	19.6		0.2	U	20.00	97.0		200.8
Copper	70 - 130	18.2		0.2		20.00	90.0		200.8
Lead	70 - 130	18.8		0.04		20.00	93.8		200.8
Nickel	70 - 130	19.0		0.6		20.00	92.0		200.8
Selenium	70 - 130	19.8		1.0	U	20.00	99.0		200.8
Silver	70 - 130	19.0		0.02	U	20.00	95.0		200.8
Thallium	70 - 130	19.0		0.02	U	20.00	95.0		200.8
Uranium	70 - 130	21.0		0.02	U	20.00	105.0		200.8

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

METALS

- 5A -

SPIKE SAMPLE RECOVERY

Client:	Kennedy/Jenks Consultants, Incor	**Service Request:**	K1005176
Project No.:	0997003.00	**Units:**	UG/L
Project Name:	City of Longview	**Basis:**	N/A
Matrix:	WATER	**% Solids:**	0.0

Sample Name: DW-1-100519S **Lab Code:** K1005176-003S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Aluminum	70 - 130	2000		50.0	U	2000.00	100.0		200.7
Iron	70 - 130	3220		2290		1000.00	93.0		200.7
Manganese	70 - 130	1040		552		500.00	97.6		200.7
Silicon	70 - 130	35300		25500		10000.00	98.0		200.7
Zinc	70 - 130	480		2.0	U	500.00	96.0		200.7

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

METALS

- 5A -

SPIKE SAMPLE RECOVERY

Client: Kennedy/Jenks Consultants, Incor
Service Request: K1005176
Project No.: 0997003.00
Units: UG/L
Project Name: City of Longview
Basis: N/A
Matrix: WATER
% Solids: 0.0

Sample Name: DW-6-100520S
Lab Code: K1005176-004S

Analyte	Control Limit %R	Spike Result	C	Sample Result	C	Spike Added	%R	Q	Method
Antimony	70 - 130	20.0		0.05	U	20.00	100.0		200.8
Arsenic	70 - 130	22.9		3.8		20.00	95.5		200.8
Barium	70 - 130	33.8		14.1		20.00	98.5		200.8
Beryllium	70 - 130	20.2		0.02	U	20.00	101.0		200.8
Cadmium	70 - 130	20.3		0.02	U	20.00	101.5		200.8
Chromium	70 - 130	19.1		0.2	U	20.00	95.5		200.8
Copper	70 - 130	18.0		0.1	U	20.00	89.5		200.8
Lead	70 - 130	18.9		0.07		20.00	94.2		200.8
Nickel	70 - 130	19.3		0.6		20.00	93.5		200.8
Selenium	70 - 130	19.9		1.0	U	20.00	99.5		200.8
Silver	70 - 130	19.1		0.02	U	20.00	95.5		200.8
Thallium	70 - 130	19.4		0.02	U	20.00	97.0		200.8
Uranium	70 - 130	21.4		0.04		20.00	106.8		200.8

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

METALS

- 6 -

DUPLICATES

Client: Kennedy/Jenks Consultants, Incor **Service Request:** K1005176

Project No.: 0997003.00 **Units:** UG/L

Project Name: City of Longview **Basis:** N/A

Matrix: WATER **% Solids:** 0.0

Sample Name: DW-9-100519D **Lab Code:** K1005176-001D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		4.3		3.0		35.6		200.7
Calcium	20	23400		23500		0.4		200.7
Iron	20	688		695		1.0		200.7
Magnesium	20	5700		5730		0.5		200.7
Manganese	20	550		555		0.9		200.7
Potassium	20	3360		3380		0.6		200.7
Silicon	20	25900		26100		0.8		200.7
Sodium	20	9450		9500		0.5		200.7
Zinc		2.0	U	2.0	U			200.7

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

METALS

- 6 -

DUPLICATES

Client: Kennedy/Jenks Consultants, Incor Service Request: K1005176

Project No.: 0997003.00 Units: UG/L

Project Name: City of Longview Basis: N/A

Matrix: WATER % Solids: 0.0

Sample Name: DW-2-100519D Lab Code: K1005176-002D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		0.05	U	0.05	U			200.8
Arsenic	20	5.2		5.1		1.9		200.8
Barium	20	24.1		23.8		1.3		200.8
Beryllium		0.02	U	0.02	U			200.8
Cadmium		0.02	U	0.02	U			200.8
Chromium		0.2	U	0.2	U			200.8
Copper		0.2		0.2		0.0		200.8
Lead		0.04		0.04		0.0		200.8
Nickel		0.6		0.6		0.0		200.8
Selenium		1.0	U	1.0	U			200.8
Silver		0.02	U	0.02	U			200.8
Thallium		0.02	U	0.02	U			200.8
Uranium		0.02	U	0.02	U			200.8

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

METALS

- 6 -

DUPLICATES

Client: Kennedy/Jenks Consultants, Incor Service Request: K1005176

Project No.: 0997003.00 Units: UG/L

Project Name: City of Longview Basis: N/A

Matrix: WATER % Solids: 0.0

Sample Name: DW-1-100519D Lab Code: K1005176-003D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		2.1		4.4		70.8		200.7
Calcium	20	20300		20600		1.5		200.7
Iron	20	2290		2330		1.7		200.7
Magnesium	20	5020		5060		0.8		200.7
Manganese	20	552		566		2.5		200.7
Potassium	20	2650		2680		1.1		200.7
Silicon	20	25500		25700		0.8		200.7
Sodium	20	8880		8950		0.8		200.7
Zinc		2.0	U	2.0	U			200.7

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

METALS

- 6 -

DUPLICATES

Client: Kennedy/Jenks Consultants, Incor
Service Request: K1005176

Project No.: 0997003.00
Units: UG/L

Project Name: City of Longview
Basis: N/A

Matrix: WATER
% Solids: 0.0

Sample Name: DW-6-100520D
Lab Code: K1005176-004D

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Antimony		0.05	U	0.05	U			200.8
Arsenic	20	3.8		3.7		2.7		200.8
Barium	20	14.1		14.3		1.4		200.8
Beryllium		0.02	U	0.02	U			200.8
Cadmium		0.02	U	0.02	U			200.8
Chromium		0.2	U	0.2	U			200.8
Copper		0.1	U	0.1	U			200.8
Lead		0.07		0.07		0.0		200.8
Nickel		0.6		0.6		0.0		200.8
Selenium		1.0	U	1.0	U			200.8
Silver		0.02	U	0.02	U			200.8
Thallium		0.02	U	0.02	U			200.8
Uranium		0.04		0.04		0.0		200.8

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

METALS

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LABORATORY CONTROL SAMPLE

Client: Kennedy/Jenks Consultants, Incor **Service Request:** K1005176

Project No.: 0997003.00

Project Name: City of Longview

Aqueous LCS Source: CAS MIXED **Solid LCS Source:**

Analyte	Aqueous: ug/L			Solid: mg/kg				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	5000	5040	100.8					
Antimony	20	20.8	104.0					
Arsenic	20	19.2	96.0					
Barium	20	20.1	100.5					
Beryllium	20	22.1	110.5					
Cadmium	20	20.6	103.0					
Calcium	12500	12500	100.0					
Chromium	20	19.4	97.0					
Copper	20	19.4	97.0					
Iron	2500	2480	99.2					
Lead	20	20.1	100.5					
Magnesium	12500	12600	100.8					
Manganese	1250	1240	99.2					
Nickel	20	19.1	95.5					
Potassium	12500	12500	100.0					
Selenium	20	19.2	96.0					
Silicon	10000	10100	101.0					
Silver	20	19.6	98.0					
Sodium	12500	12700	101.6					
Thallium	20	20.2	101.0					
Uranium	20	20.8	104.0					
Zinc	1250	1230	98.4					

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/19/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: DW-9-100519
Lab Code: K1005176-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Vinyl Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichlorofluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methylene Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Carbon Tetrachloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Benzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromodichloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Toluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Tetrachloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Ethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Styrene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
m,p-Xylenes	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
o-Xylene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/19/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: DW-9-100519
Lab Code: K1005176-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromoform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Isopropylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Propylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
4-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
tert-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
sec-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
p-Isopropyltoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,4-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Hexachlorobutadiene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Naphthalene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	91	69-114	05/27/10	Acceptable
Dibromofluoromethane	98	82-124	05/27/10	Acceptable
Toluene-d8	95	84-124	05/27/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/19/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Volatile Organic Compounds

Sample Name:	DW-2-100519	**Units:**	ug/L
Lab Code:	K1005176-002	**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	05/27/10	05/27/10	KWG1004996	
Chloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Vinyl Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichlorofluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methylene Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Carbon Tetrachloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Benzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromodichloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Toluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Tetrachloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Ethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Styrene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
m,p-Xylenes	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
o-Xylene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/19/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: DW-2-100519
Lab Code: K1005176-002

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromoform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Isopropylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Propylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
4-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
tert-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
sec-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
p-Isopropyltoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,4-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Hexachlorobutadiene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Naphthalene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	88	69-114	05/27/10	Acceptable
Dibromofluoromethane	97	82-124	05/27/10	Acceptable
Toluene-d8	94	84-124	05/27/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/19/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: DW-1-100519
Lab Code: K1005176-003

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Vinyl Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichlorofluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methylene Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Carbon Tetrachloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Benzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromodichloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Toluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Tetrachloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Ethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Styrene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
m,p-Xylenes	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
o-Xylene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/19/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: DW-1-100519
Lab Code: K1005176-003

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromoform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Isopropylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Propylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
4-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
tert-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
sec-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
p-Isopropyltoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,4-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Hexachlorobutadiene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Naphthalene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	87	69-114	05/27/10	Acceptable
Dibromofluoromethane	97	82-124	05/27/10	Acceptable
Toluene-d8	94	84-124	05/27/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/20/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: DW-6-100520
Lab Code: K1005176-004

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Vinyl Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichlorofluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methylene Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Carbon Tetrachloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Benzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromodichloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Toluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Tetrachloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Ethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Styrene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
m,p-Xylenes	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
o-Xylene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/20/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: DW-6-100520
Lab Code: K1005176-004

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromoform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Isopropylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Propylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
4-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
tert-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
sec-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
p-Isopropyltoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,4-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Hexachlorobutadiene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Naphthalene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	89	69-114	05/27/10	Acceptable
Dibromofluoromethane	96	82-124	05/27/10	Acceptable
Toluene-d8	95	84-124	05/27/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/20/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: DW-5-100520
Lab Code: K1005176-005

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Vinyl Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichlorofluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methylene Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Carbon Tetrachloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Benzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromodichloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Toluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Tetrachloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Ethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Styrene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
m,p-Xylenes	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
o-Xylene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/20/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: DW-5-100520
Lab Code: K1005176-005

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromoform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Isopropylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Propylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
4-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
tert-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
sec-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
p-Isopropyltoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,4-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Hexachlorobutadiene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Naphthalene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	86	69-114	05/27/10	Acceptable
Dibromofluoromethane	96	82-124	05/27/10	Acceptable
Toluene-d8	95	84-124	05/27/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/20/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Volatile Organic Compounds

Sample Name:	DW-7-100520	**Units:**	ug/L
Lab Code:	K1005176-006	**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	05/27/10	05/27/10	KWG1004996	
Chloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Vinyl Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichlorofluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methylene Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Carbon Tetrachloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Benzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromodichloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Toluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Tetrachloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Ethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Styrene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
m,p-Xylenes	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
o-Xylene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/20/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: DW-7-100520
Lab Code: K1005176-006

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromoform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Isopropylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Propylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
4-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
tert-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
sec-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
p-Isopropyltoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,4-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromo-3-chloropropane (DE	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Hexachlorobutadiene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Naphthalene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	87	69-114	05/27/10	Acceptable
Dibromofluoromethane	98	82-124	05/27/10	Acceptable
Toluene-d8	95	84-124	05/27/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/20/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: QCFD1-100520
Lab Code: K1005176-007

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Vinyl Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichlorofluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methylene Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Carbon Tetrachloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Benzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromodichloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Toluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Tetrachloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Ethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Styrene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
m,p-Xylenes	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
o-Xylene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/20/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: QCFD1-100520
Lab Code: K1005176-007

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromoform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Isopropylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Propylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
4-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
tert-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
sec-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
p-Isopropyltoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,4-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Hexachlorobutadiene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Naphthalene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	89	69-114	05/27/10	Acceptable
Dibromofluoromethane	97	82-124	05/27/10	Acceptable
Toluene-d8	95	84-124	05/27/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/20/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Volatile Organic Compounds

Sample Name:	Trip Blank	**Units:**	ug/L
Lab Code:	K1005176-008	**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	05/27/10	05/27/10	KWG1004996	
Chloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Vinyl Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichlorofluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methylene Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Carbon Tetrachloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Benzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromodichloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Toluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Tetrachloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Ethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Styrene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
m,p-Xylenes	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
o-Xylene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/20/2010
Date Received: 05/20/2010

Volatile Organic Compounds

Sample Name: Trip Blank
Lab Code: K1005176-008

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromoform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Isopropylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Propylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
4-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
tert-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
sec-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
p-Isopropyltoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,4-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Hexachlorobutadiene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Naphthalene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	91	69-114	05/27/10	Acceptable
Dibromofluoromethane	96	82-124	05/27/10	Acceptable
Toluene-d8	95	84-124	05/27/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1004996-2

Extraction Method: METHOD
Analysis Method: 524.2

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Dichlorodifluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Vinyl Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichlorofluoromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methylene Chloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,2-Dichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Methyl tert-Butyl Ether	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chloroform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Carbon Tetrachloride	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Benzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Trichloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromodichloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromomethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
cis-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Toluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
trans-1,3-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Tetrachloroethene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2,2-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Dibromochloromethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromoethane (EDB)	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Chlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Ethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Styrene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
m,p-Xylenes	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
o-Xylene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: NA
Date Received: NA

Volatile Organic Compounds

Sample Name: Method Blank
Lab Code: KWG1004996-2

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 524.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
1,1,1-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromoform	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Isopropylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1-Dichloropropene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Bromobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Propylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3,5-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
2-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
4-Chlorotoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
tert-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trimethylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
sec-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
p-Isopropyltoluene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,3-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,4-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
n-Butylbenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2-Dibromo-3-chloropropane (DI	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,4-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Hexachlorobutadiene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
Naphthalene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,2-Trichloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,1,1,2-Tetrachloroethane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichloropropane	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	
1,2,3-Trichlorobenzene	ND	U	0.50	1	05/27/10	05/27/10	KWG1004996	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
4-Bromofluorobenzene	89	69-114	05/27/10	Acceptable
Dibromofluoromethane	94	82-124	05/27/10	Acceptable
Toluene-d8	95	84-124	05/27/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176

Surrogate Recovery Summary
Volatile Organic Compounds

Extraction Method: METHOD
Analysis Method: 524.2

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1	Sur2	Sur3
DW-9-100519	K1005176-001	91	98	95
DW-2-100519	K1005176-002	88	97	94
DW-1-100519	K1005176-003	87	97	94
DW-6-100520	K1005176-004	89	96	95
DW-5-100520	K1005176-005	86	96	95
DW-7-100520	K1005176-006	87	98	95
QCFD1-100520	K1005176-007	89	97	95
Trip Blank	K1005176-008	91	96	95
Method Blank	KWG1004996-2	89	94	95
Lab Control Sample	KWG1004996-1	100	94	105

Surrogate Recovery Control Limits (%)

Sur1 =	4-Bromofluorobenzene	69-114
Sur2 =	Dibromofluoromethane	82-124
Sur3 =	Toluene-d8	84-124

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

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Extracted: 05/27/2010
Date Analyzed: 05/27/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: METHOD
Analysis Method: 524.2

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1004996

Analyte Name	Lab Control Sample KWG1004996-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
Dichlorodifluoromethane	4.70	5.00	94	70-130
Chloromethane	4.38	5.00	88	70-130
Vinyl Chloride	4.67	5.00	93	70-130
Bromomethane	4.54	5.00	91	70-130
Chloroethane	4.62	5.00	92	70-130
Trichlorofluoromethane	4.55	5.00	91	70-130
Methylene Chloride	4.45	5.00	89	70-130
trans-1,2-Dichloroethene	4.75	5.00	95	70-130
1,1-Dichloroethene	4.83	5.00	97	70-130
cis-1,2-Dichloroethene	4.87	5.00	97	70-130
Methyl tert-Butyl Ether	7.17	10.0	72	70-130
Chloroform	4.72	5.00	94	70-130
Bromochloromethane	4.63	5.00	93	70-130
Carbon Tetrachloride	4.74	5.00	95	70-130
Benzene	4.80	5.00	96	70-130
1,2-Dichloroethane	4.52	5.00	90	70-130
Trichloroethene	4.68	5.00	94	70-130
1,2-Dichloropropane	4.49	5.00	90	70-130
Bromodichloromethane	4.49	5.00	90	70-130
Dibromomethane	4.67	5.00	93	70-130
cis-1,3-Dichloropropene	4.10	5.00	82	70-130
1,1-Dichloroethane	4.70	5.00	94	70-130
Toluene	4.90	5.00	98	70-130
trans-1,3-Dichloropropene	4.30	5.00	86	70-130
Tetrachloroethene	5.23	5.00	105	70-130
2,2-Dichloropropane	4.25	5.00	85	70-130
1,3-Dichloropropane	4.87	5.00	97	70-130
Dibromochloromethane	4.95	5.00	99	70-130
1,2-Dibromoethane (EDB)	5.18	5.00	104	70-130
Chlorobenzene	5.17	5.00	103	70-130
Ethylbenzene	5.23	5.00	105	70-130
Styrene	5.13	5.00	103	70-130
m,p-Xylenes	10.8	10.0	108	70-130
o-Xylene	5.13	5.00	103	70-130
1,1,1-Trichloroethane	4.47	5.00	89	70-130
Bromoform	4.62	5.00	92	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.

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Extracted: 05/27/2010
Date Analyzed: 05/27/2010

Lab Control Spike Summary
Volatile Organic Compounds

Extraction Method: METHOD
Analysis Method: 524.2

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1004996

Analyte Name	Lab Control Sample KWG1004996-1 Lab Control Spike Result	Expected	%Rec	%Rec Limits
1,1,2,2-Tetrachloroethane	4.45	5.00	89	70-130
Isopropylbenzene	5.18	5.00	104	70-130
1,1-Dichloropropene	4.43	5.00	89	70-130
Bromobenzene	4.85	5.00	97	70-130
n-Propylbenzene	4.89	5.00	98	70-130
1,3,5-Trimethylbenzene	4.91	5.00	98	70-130
2-Chlorotoluene	4.81	5.00	96	70-130
4-Chlorotoluene	4.94	5.00	99	70-130
tert-Butylbenzene	4.82	5.00	96	70-130
1,2,4-Trimethylbenzene	5.07	5.00	101	70-130
sec-Butylbenzene	4.98	5.00	100	70-130
p-Isopropyltoluene	5.00	5.00	100	70-130
1,3-Dichlorobenzene	5.06	5.00	101	70-130
1,4-Dichlorobenzene	4.90	5.00	98	70-130
n-Butylbenzene	4.74	5.00	95	70-130
1,2-Dichlorobenzene	4.99	5.00	100	70-130
1,2-Dibromo-3-chloropropane (DBCP	4.13	5.00	83	70-130
1,2,4-Trichlorobenzene	4.15	5.00	83	70-130
Hexachlorobutadiene	4.50	5.00	90	70-130
Naphthalene	3.74	5.00	75	70-130
1,1,2-Trichloroethane	5.01	5.00	100	70-130
1,1,1,2-Tetrachloroethane	5.02	5.00	100	70-130
1,2,3-Trichloropropane	4.78	5.00	96	70-130
1,2,3-Trichlorobenzene	4.34	5.00	87	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.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/19/2010
Date Received: 05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name: DW-9-100519
Lab Code: K1005176-001

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
EPTC	ND	U	0.051	1	05/24/10	05/25/10	KWG1004860	
Dimethyl Phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Acenaphthylene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Acenaphthene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Diethyl Phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Fluorene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Propachlor	ND	U	0.074	1	05/24/10	05/25/10	KWG1004860	
Trifluralin	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Hexachlorobenzene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Simazine	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Atrazine	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Phenanthrene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Anthracene	ND	U	0.067	1	05/24/10	05/25/10	KWG1004860	
Terbacil	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Metribuzin	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Alachlor	ND	U	0.070	1	05/24/10	05/25/10	KWG1004860	
Di-n-butyl Phthalate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Bromacil	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Malathion	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Metolachlor	ND	U	0.088	1	05/24/10	05/25/10	KWG1004860	
Parathion	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Fluoranthene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Butachlor	ND	U	0.051	1	05/24/10	05/25/10	KWG1004860	
Pyrene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Benzyl butyl phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Benz(a)anthracene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Chrysene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Benzo(b)fluoranthene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(k)fluoranthene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(a)pyrene	ND	U	0.020	1	05/24/10	05/25/10	KWG1004860	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/19/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-9-100519	**Units:**	ug/L
Lab Code:	K1005176-001	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	96	70-130	05/25/10	Acceptable
Triphenyl Phosphate	85	70-130	05/25/10	Acceptable
Perylene-d12	89	70-130	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/19/2010
Date Received: 05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name: DW-2-100519
Lab Code: K1005176-002

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
EPTC	ND	U	0.051	1	05/24/10	05/25/10	KWG1004860	
Dimethyl Phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Acenaphthylene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Acenaphthene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Diethyl Phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Fluorene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Propachlor	ND	U	0.074	1	05/24/10	05/25/10	KWG1004860	
Trifluralin	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Hexachlorobenzene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Simazine	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Atrazine	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Phenanthrene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Anthracene	ND	U	0.067	1	05/24/10	05/25/10	KWG1004860	
Terbacil	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Metribuzin	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Alachlor	ND	U	0.070	1	05/24/10	05/25/10	KWG1004860	
Di-n-butyl Phthalate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Bromacil	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Malathion	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Metolachlor	ND	U	0.088	1	05/24/10	05/25/10	KWG1004860	
Parathion	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Fluoranthene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Butachlor	ND	U	0.051	1	05/24/10	05/25/10	KWG1004860	
Pyrene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Benzyl butyl phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Benz(a)anthracene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Chrysene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Benzo(b)fluoranthene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(k)fluoranthene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(a)pyrene	ND	U	0.020	1	05/24/10	05/25/10	KWG1004860	

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/19/2010
Date Received: 05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name: DW-2-100519
Lab Code: K1005176-002

Extraction Method: METHOD
Analysis Method: 525.2

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	101	70-130	05/25/10	Acceptable
Triphenyl Phosphate	82	70-130	05/25/10	Acceptable
Perylene-d12	72	70-130	05/25/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/19/2010
Date Received: 05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name: DW-1-100519
Lab Code: K1005176-003

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	06/01/10	06/02/10	KWG1005218	
EPTC	ND	U	0.051	1	06/01/10	06/02/10	KWG1005218	
Dimethyl Phthalate	ND	U	0.49	1	06/01/10	06/02/10	KWG1005218	
Acenaphthylene	ND	U	0.049	1	06/01/10	06/02/10	KWG1005218	
Acenaphthene	ND	U	0.049	1	06/01/10	06/02/10	KWG1005218	
Diethyl Phthalate	ND	U	0.49	1	06/01/10	06/02/10	KWG1005218	
Fluorene	ND	U	0.049	1	06/01/10	06/02/10	KWG1005218	
Propachlor	ND	U	0.074	1	06/01/10	06/02/10	KWG1005218	
Trifluralin	ND	U	0.098	1	06/01/10	06/02/10	KWG1005218	
Hexachlorobenzene	ND	U	0.098	1	06/01/10	06/02/10	KWG1005218	
Simazine	ND	U	0.049	1	06/01/10	06/02/10	KWG1005218	
Atrazine	ND	U	0.098	1	06/01/10	06/02/10	KWG1005218	
Phenanthrene	ND	U	0.049	1	06/01/10	06/02/10	KWG1005218	
Anthracene	ND	U	0.067	1	06/01/10	06/02/10	KWG1005218	
Terbacil	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Metribuzin	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Alachlor	ND	U	0.070	1	06/01/10	06/02/10	KWG1005218	
Di-n-butyl Phthalate	ND	U	0.59	1	06/01/10	06/02/10	KWG1005218	
Bromacil	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Malathion	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Metolachlor	ND	U	0.088	1	06/01/10	06/02/10	KWG1005218	
Parathion	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Fluoranthene	ND	U	0.098	1	06/01/10	06/02/10	KWG1005218	
Butachlor	ND	U	0.051	1	06/01/10	06/02/10	KWG1005218	
Pyrene	ND	U	0.049	1	06/01/10	06/02/10	KWG1005218	
Benzyl butyl phthalate	ND	U	0.49	1	06/01/10	06/02/10	KWG1005218	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	06/01/10	06/02/10	KWG1005218	
Benz(a)anthracene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Chrysene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	06/01/10	06/02/10	KWG1005218	
Benzo(b)fluoranthene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Benzo(k)fluoranthene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Benzo(a)pyrene	ND	U	0.020	1	06/01/10	06/02/10	KWG1005218	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/19/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-1-100519	**Units:**	ug/L
Lab Code:	K1005176-003	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Dibenz(a,h)anthracene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Benzo(g,h,i)perylene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	118	70-130	06/02/10	Acceptable
Triphenyl Phosphate	97	70-130	06/02/10	Acceptable
Perylene-d12	92	70-130	06/02/10	Acceptable

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/20/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-6-100520	**Units:**	ug/L
Lab Code:	K1005176-004	**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	05/24/10	05/25/10	KWG1004860	
EPTC	ND	U	0.051	1	05/24/10	05/25/10	KWG1004860	
Dimethyl Phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Acenaphthylene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Acenaphthene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Diethyl Phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Fluorene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Propachlor	ND	U	0.074	1	05/24/10	05/25/10	KWG1004860	
Trifluralin	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Hexachlorobenzene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Simazine	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Atrazine	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Phenanthrene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Anthracene	ND	U	0.067	1	05/24/10	05/25/10	KWG1004860	
Terbacil	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Metribuzin	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Alachlor	ND	U	0.070	1	05/24/10	05/25/10	KWG1004860	
Di-n-butyl Phthalate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Bromacil	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Malathion	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Metolachlor	ND	U	0.088	1	05/24/10	05/25/10	KWG1004860	
Parathion	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Fluoranthene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Butachlor	ND	U	0.051	1	05/24/10	05/25/10	KWG1004860	
Pyrene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Benzyl butyl phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Benz(a)anthracene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Chrysene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Benzo(b)fluoranthene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(k)fluoranthene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(a)pyrene	ND	U	0.020	1	05/24/10	05/25/10	KWG1004860	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/20/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-6-100520	**Units:**	ug/L
Lab Code:	K1005176-004	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	96	70-130	05/25/10	Acceptable
Triphenyl Phosphate	80	70-130	05/25/10	Acceptable
Perylene-d12	96	70-130	05/25/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/20/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-5-100520	**Units:**	ug/L
Lab Code:	K1005176-005	**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	06/01/10	06/03/10	KWG1005218	
EPTC	ND	U	0.051	1	06/01/10	06/03/10	KWG1005218	
Dimethyl Phthalate	ND	U	0.49	1	06/01/10	06/03/10	KWG1005218	
Acenaphthylene	ND	U	0.049	1	06/01/10	06/03/10	KWG1005218	
Acenaphthene	ND	U	0.049	1	06/01/10	06/03/10	KWG1005218	
Diethyl Phthalate	ND	U	0.49	1	06/01/10	06/03/10	KWG1005218	
Fluorene	ND	U	0.049	1	06/01/10	06/03/10	KWG1005218	
Propachlor	ND	U	0.074	1	06/01/10	06/03/10	KWG1005218	
Trifluralin	ND	U	0.098	1	06/01/10	06/03/10	KWG1005218	
Hexachlorobenzene	ND	U	0.098	1	06/01/10	06/03/10	KWG1005218	
Simazine	ND	U	0.049	1	06/01/10	06/03/10	KWG1005218	
Atrazine	ND	U	0.098	1	06/01/10	06/03/10	KWG1005218	
Phenanthrene	ND	U	0.049	1	06/01/10	06/03/10	KWG1005218	
Anthracene	ND	U	0.067	1	06/01/10	06/03/10	KWG1005218	
Terbacil	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	
Metribuzin	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	
Alachlor	ND	U	0.070	1	06/01/10	06/03/10	KWG1005218	
Di-n-butyl Phthalate	ND	U	0.59	1	06/01/10	06/03/10	KWG1005218	
Bromacil	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	
Malathion	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	
Metolachlor	ND	U	0.088	1	06/01/10	06/03/10	KWG1005218	
Parathion	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	
Fluoranthene	ND	U	0.098	1	06/01/10	06/03/10	KWG1005218	
Butachlor	ND	U	0.051	1	06/01/10	06/03/10	KWG1005218	
Pyrene	ND	U	0.049	1	06/01/10	06/03/10	KWG1005218	
Benzyl butyl phthalate	ND	U	0.49	1	06/01/10	06/03/10	KWG1005218	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	06/01/10	06/03/10	KWG1005218	
Benz(a)anthracene	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	
Chrysene	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	06/01/10	06/03/10	KWG1005218	
Benzo(b)fluoranthene	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	
Benzo(k)fluoranthene	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	
Benzo(a)pyrene	ND	U	0.020	1	06/01/10	06/03/10	KWG1005218	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/20/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-5-100520	**Units:**	ug/L
Lab Code:	K1005176-005	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	
Dibenz(a,h)anthracene	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	
Benzo(g,h,i)perylene	ND	U	0.20	1	06/01/10	06/03/10	KWG1005218	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	112	70-130	06/03/10	Acceptable
Triphenyl Phosphate	97	70-130	06/03/10	Acceptable
Perylene-d12	90	70-130	06/03/10	Acceptable

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/20/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-7-100520	**Units:**	ug/L
Lab Code:	K1005176-006	**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	05/24/10	05/25/10	KWG1004860	
EPTC	ND	U	0.051	1	05/24/10	05/25/10	KWG1004860	
Dimethyl Phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Acenaphthylene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Acenaphthene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Diethyl Phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Fluorene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Propachlor	ND	U	0.074	1	05/24/10	05/25/10	KWG1004860	
Trifluralin	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Hexachlorobenzene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Simazine	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Atrazine	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Phenanthrene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Anthracene	ND	U	0.067	1	05/24/10	05/25/10	KWG1004860	
Terbacil	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Metribuzin	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Alachlor	ND	U	0.070	1	05/24/10	05/25/10	KWG1004860	
Di-n-butyl Phthalate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Bromacil	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Malathion	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Metolachlor	ND	U	0.088	1	05/24/10	05/25/10	KWG1004860	
Parathion	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Fluoranthene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Butachlor	ND	U	0.051	1	05/24/10	05/25/10	KWG1004860	
Pyrene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Benzyl butyl phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Benz(a)anthracene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Chrysene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Benzo(b)fluoranthene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(k)fluoranthene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(a)pyrene	ND	U	0.020	1	05/24/10	05/25/10	KWG1004860	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/20/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name:	DW-7-100520	**Units:**	ug/L
Lab Code:	K1005176-006	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	104	70-130	05/25/10	Acceptable
Triphenyl Phosphate	83	70-130	05/25/10	Acceptable
Perylene-d12	77	70-130	05/25/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176
Date Collected: 05/20/2010
Date Received: 05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name: QCFD1-100520
Lab Code: K1005176-007

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
EPTC	ND	U	0.051	1	05/24/10	05/25/10	KWG1004860	
Dimethyl Phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Acenaphthylene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Acenaphthene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Diethyl Phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Fluorene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Propachlor	ND	U	0.074	1	05/24/10	05/25/10	KWG1004860	
Trifluralin	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Hexachlorobenzene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Simazine	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Atrazine	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Phenanthrene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Anthracene	ND	U	0.067	1	05/24/10	05/25/10	KWG1004860	
Terbacil	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Metribuzin	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Alachlor	ND	U	0.070	1	05/24/10	05/25/10	KWG1004860	
Di-n-butyl Phthalate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Bromacil	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Malathion	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Metolachlor	ND	U	0.088	1	05/24/10	05/25/10	KWG1004860	
Parathion	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Fluoranthene	ND	U	0.098	1	05/24/10	05/25/10	KWG1004860	
Butachlor	ND	U	0.051	1	05/24/10	05/25/10	KWG1004860	
Pyrene	ND	U	0.049	1	05/24/10	05/25/10	KWG1004860	
Benzyl butyl phthalate	ND	U	0.49	1	05/24/10	05/25/10	KWG1004860	
Bis(2-ethylhexyl) Adipate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Benz(a)anthracene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Chrysene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Bis(2-ethylhexyl) Phthalate	ND	U	0.59	1	05/24/10	05/25/10	KWG1004860	
Benzo(b)fluoranthene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(k)fluoranthene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(a)pyrene	ND	U	0.020	1	05/24/10	05/25/10	KWG1004860	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Collected:**	05/20/2010
Sample Matrix:	Water	**Date Received:**	05/20/2010

Semivolatile Organics by EPA Method 525.2

Sample Name:	QCFD1-100520	**Units:**	ug/L
Lab Code:	K1005176-007	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/24/10	05/25/10	KWG1004860	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	100	70-130	05/25/10	Acceptable
Triphenyl Phosphate	81	70-130	05/25/10	Acceptable
Perylene-d12	81	70-130	05/25/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Drinking water

Service Request: K1005176
Date Collected: NA
Date Received: NA

Semivolatile Organics by EPA Method 525.2

Sample Name: Method Blank
Lab Code: KWG1004860-4

Extraction Method: METHOD
Analysis Method: 525.2

Units: ug/L
Basis: NA

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.10	1	05/24/10	05/24/10	KWG1004860	
EPTC	ND	U	0.052	1	05/24/10	05/24/10	KWG1004860	
Dimethyl Phthalate	ND	U	0.50	1	05/24/10	05/24/10	KWG1004860	
Acenaphthylene	ND	U	0.050	1	05/24/10	05/24/10	KWG1004860	
Acenaphthene	ND	U	0.050	1	05/24/10	05/24/10	KWG1004860	
Diethyl Phthalate	ND	U	0.50	1	05/24/10	05/24/10	KWG1004860	
Fluorene	ND	U	0.050	1	05/24/10	05/24/10	KWG1004860	
Propachlor	ND	U	0.076	1	05/24/10	05/24/10	KWG1004860	
Trifluralin	ND	U	0.10	1	05/24/10	05/24/10	KWG1004860	
Hexachlorobenzene	ND	U	0.10	1	05/24/10	05/24/10	KWG1004860	
Simazine	ND	U	0.050	1	05/24/10	05/24/10	KWG1004860	
Atrazine	ND	U	0.10	1	05/24/10	05/24/10	KWG1004860	
Phenanthrene	ND	U	0.050	1	05/24/10	05/24/10	KWG1004860	
Anthracene	ND	U	0.068	1	05/24/10	05/24/10	KWG1004860	
Terbacil	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	
Metribuzin	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	
Alachlor	ND	U	0.072	1	05/24/10	05/24/10	KWG1004860	
Di-n-butyl Phthalate	ND	U	0.60	1	05/24/10	05/24/10	KWG1004860	
Bromacil	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	
Malathion	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	
Metolachlor	ND	U	0.090	1	05/24/10	05/24/10	KWG1004860	
Parathion	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	
Fluoranthene	ND	U	0.10	1	05/24/10	05/24/10	KWG1004860	
Butachlor	ND	U	0.052	1	05/24/10	05/24/10	KWG1004860	
Pyrene	ND	U	0.050	1	05/24/10	05/24/10	KWG1004860	
Benzyl butyl phthalate	ND	U	0.50	1	05/24/10	05/24/10	KWG1004860	
Bis(2-ethylhexyl) Adipate	ND	U	0.60	1	05/24/10	05/24/10	KWG1004860	
Benz(a)anthracene	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	
Chrysene	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	
Bis(2-ethylhexyl) Phthalate	ND	U	0.60	1	05/24/10	05/24/10	KWG1004860	
Benzo(b)fluoranthene	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	
Benzo(k)fluoranthene	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	
Benzo(a)pyrene	ND	U	0.020	1	05/24/10	05/24/10	KWG1004860	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**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:	KWG1004860-4	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	
Dibenz(a,h)anthracene	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	
Benzo(g,h,i)perylene	ND	U	0.20	1	05/24/10	05/24/10	KWG1004860	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	89	70-130	05/24/10	Acceptable
Triphenyl Phosphate	82	70-130	05/24/10	Acceptable
Perylene-d12	88	70-130	05/24/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Drinking water

Service Request: K1005176
Date Collected: NA
Date Received: NA

Semivolatile Organics by EPA Method 525.2

Sample Name: Method Blank
Lab Code: KWG1005218-3

Units: ug/L
Basis: NA

Extraction Method: METHOD
Analysis Method: 525.2

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Hexachlorocyclopentadiene	ND	U	0.10	1	06/01/10	06/02/10	KWG1005218	
EPTC	ND	U	0.052	1	06/01/10	06/02/10	KWG1005218	
Dimethyl Phthalate	ND	U	0.50	1	06/01/10	06/02/10	KWG1005218	
Acenaphthylene	ND	U	0.050	1	06/01/10	06/02/10	KWG1005218	
Acenaphthene	ND	U	0.050	1	06/01/10	06/02/10	KWG1005218	
Diethyl Phthalate	ND	U	0.50	1	06/01/10	06/02/10	KWG1005218	
Fluorene	ND	U	0.050	1	06/01/10	06/02/10	KWG1005218	
Propachlor	ND	U	0.076	1	06/01/10	06/02/10	KWG1005218	
Trifluralin	ND	U	0.10	1	06/01/10	06/02/10	KWG1005218	
Hexachlorobenzene	ND	U	0.10	1	06/01/10	06/02/10	KWG1005218	
Simazine	ND	U	0.050	1	06/01/10	06/02/10	KWG1005218	
Atrazine	ND	U	0.10	1	06/01/10	06/02/10	KWG1005218	
Phenanthrene	ND	U	0.050	1	06/01/10	06/02/10	KWG1005218	
Anthracene	ND	U	0.068	1	06/01/10	06/02/10	KWG1005218	
Terbacil	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Metribuzin	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Alachlor	ND	U	0.072	1	06/01/10	06/02/10	KWG1005218	
Di-n-butyl Phthalate	ND	U	0.60	1	06/01/10	06/02/10	KWG1005218	
Bromacil	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Malathion	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Metolachlor	ND	U	0.090	1	06/01/10	06/02/10	KWG1005218	
Parathion	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Fluoranthene	ND	U	0.10	1	06/01/10	06/02/10	KWG1005218	
Butachlor	ND	U	0.052	1	06/01/10	06/02/10	KWG1005218	
Pyrene	ND	U	0.050	1	06/01/10	06/02/10	KWG1005218	
Benzyl butyl phthalate	ND	U	0.50	1	06/01/10	06/02/10	KWG1005218	
Bis(2-ethylhexyl) Adipate	ND	U	0.60	1	06/01/10	06/02/10	KWG1005218	
Benz(a)anthracene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Chrysene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Bis(2-ethylhexyl) Phthalate	ND	U	0.60	1	06/01/10	06/02/10	KWG1005218	
Benzo(b)fluoranthene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Benzo(k)fluoranthene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Benzo(a)pyrene	ND	U	0.020	1	06/01/10	06/02/10	KWG1005218	

Comments:

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**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:	KWG1005218-3	**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
Indeno(1,2,3-cd)pyrene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Dibenz(a,h)anthracene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	
Benzo(g,h,i)perylene	ND	U	0.20	1	06/01/10	06/02/10	KWG1005218	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
1,3-Dimethyl-2-nitrobenzene	109	70-130	06/02/10	Acceptable
Triphenyl Phosphate	98	70-130	06/02/10	Acceptable
Perylene-d12	108	70-130	06/02/10	Acceptable

Comments:

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Water

Service Request: K1005176

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	
DW-9-100519	K1005176-001	96	85	89	
DW-2-100519	K1005176-002	101	82	72	
DW-1-100519	K1005176-003	118	97	92	
DW-6-100520	K1005176-004	96	80	96	
DW-5-100520	K1005176-005	112	97	90	
DW-7-100520	K1005176-006	104	83	77	
QCFD1-100520	K1005176-007	100	81	81	
Method Blank	KWG1004860-4	89	82	88	
Method Blank	KWG1005218-3	109	98	108	
Batch QC	K1005183-001	89	85	91	
Batch QC	K1005474-001	109	101	80	
Batch QCMS	KWG1004860-1	88	91	96	
Batch QCDMS	KWG1004860-2	91	86	92	
Batch QCMS	KWG1005218-2	113	106	52	*
Lab Control Sample	KWG1004860-3	90	96	92	
Lab Control Sample	KWG1005218-1	110	112	107	

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.

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Extracted:**	05/24/2010
Sample Matrix:	Drinking water	**Date Analyzed:**	05/24/2010

Matrix Spike/Duplicate Matrix Spike Summary
Semivolatile Organics by EPA Method 525.2

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1005183-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2	**Extraction Lot:**	KWG1004860

Analyte Name	Sample Result	Batch QCMS KWG1004860-1 Matrix Spike Result	Expected	%Rec	Batch QCDMS KWG1004860-2 Duplicate Matrix Spike Result	Expected	%Rec	%Rec Limits	RPD	RPD Limit
Hexachlorocyclopentadiene	ND	0.860	0.971	89	0.878	0.971	90	70-130	2	30
EPTC	ND	0.849	0.971	87	0.817	0.971	84	70-130	4	30
Dimethyl Phthalate	ND	0.916	0.971	94	0.948	0.971	98	70-130	3	30
Acenaphthylene	ND	0.902	0.971	93	0.889	0.971	92	70-130	1	30
Acenaphthene	ND	0.907	0.971	93	0.898	0.971	93	70-130	1	30
Diethyl Phthalate	ND	1.04	0.971	108	1.02	0.971	105	70-130	3	30
Fluorene	ND	0.914	0.971	94	0.910	0.971	94	70-130	0	30
Propachlor	ND	0.939	0.971	97	0.929	0.971	96	70-130	1	30
Trifluralin	ND	0.915	0.971	94	0.952	0.971	98	70-130	4	30
Hexachlorobenzene	ND	0.768	0.971	79	0.750	0.971	77	70-130	2	30
Simazine	ND	0.811	0.971	83	0.754	0.971	78	70-130	7	30
Atrazine	ND	0.846	0.971	87	0.822	0.971	85	70-130	3	30
Phenanthrene	ND	0.849	0.971	87	0.876	0.971	90	70-130	3	30
Anthracene	ND	0.791	0.971	81	0.730	0.971	75	70-130	8	30
Terbacil	ND	0.864	0.971	89	0.909	0.971	94	70-130	5	30
Metribuzin	ND	0.919	0.971	95	0.890	0.971	92	70-130	3	30
Alachlor	ND	0.925	0.971	95	0.916	0.971	94	70-130	1	30
Di-n-butyl Phthalate	ND	0.956	0.971	98	0.941	0.971	97	70-130	2	30
Bromacil	ND	0.918	0.971	95	0.959	0.971	99	70-130	4	30
Malathion	ND	0.585	0.971	60 *	0.583	0.971	60 *	70-130	0	30
Metolachlor	ND	0.917	0.971	94	0.869	0.971	89	70-130	5	30
Parathion	ND	0.894	0.971	92	0.795	0.971	82	70-130	12	30
Fluoranthene	ND	0.812	0.971	84	0.806	0.971	83	70-130	1	30
Butachlor	ND	0.805	0.971	83	0.825	0.971	85	70-130	2	30
Pyrene	ND	0.812	0.971	84	0.844	0.971	87	70-130	4	30
Benzyl butyl phthalate	ND	0.889	0.971	92	0.916	0.971	94	70-130	3	30
Bis(2-ethylhexyl) Adipate	ND	0.825	0.971	85	0.853	0.971	88	70-130	3	30
Benz(a)anthracene	ND	0.884	0.971	91	0.843	0.971	87	70-130	5	30
Chrysene	ND	0.888	0.971	92	0.921	0.971	95	70-130	4	30
Bis(2-ethylhexyl) Phthalate	ND	0.881	0.971	91	0.840	0.971	87	70-130	5	30
Benzo(b)fluoranthene	ND	0.825	0.971	85	0.835	0.971	86	70-130	1	30
Benzo(k)fluoranthene	ND	0.849	0.971	87	0.870	0.971	90	70-130	2	30
Benzo(a)pyrene	ND	0.799	0.971	82	0.784	0.971	81	70-130	2	30

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

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Extracted:**	05/24/2010
Sample Matrix:	Drinking water	**Date Analyzed:**	05/24/2010

Matrix Spike/Duplicate Matrix Spike Summary
Semivolatile Organics by EPA Method 525.2

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1005183-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2	**Extraction Lot:**	KWG1004860

Analyte Name	Sample Result	Batch QCMS KWG1004860-1 Matrix Spike			Batch QCDMS KWG1004860-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Indeno(1,2,3-cd)pyrene	ND	0.844	0.971	87	0.809	0.971	83	70-130	4	30
Dibenz(a,h)anthracene	ND	0.840	0.971	87	0.821	0.971	85	70-130	2	30
Benzo(g,h,i)perylene	ND	0.815	0.971	84	0.732	0.971	75	70-130	11	30

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Extracted:**	06/01/2010
Sample Matrix:	Drinking water	**Date Analyzed:**	06/03/2010

Matrix Spike Summary
Semivolatile Organics by EPA Method 525.2

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1005474-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2	**Extraction Lot:**	KWG1005218

Analyte Name	Sample Result	Batch QCMS KWG1005218-2 Matrix Spike Result	Expected	%Rec		%Rec Limits
Hexachlorocyclopentadiene	ND	0.915	0.971	94		70-130
EPTC	ND	0.999	0.971	103		70-130
Dimethyl Phthalate	ND	1.16	0.971	119		70-130
Acenaphthylene	ND	ND	0.971	0	*	70-130
Acenaphthene	ND	1.03	0.971	106		70-130
Diethyl Phthalate	ND	1.27	0.971	131	*	70-130
Fluorene	ND	1.17	0.971	121		70-130
Propachlor	ND	1.09	0.971	112		70-130
Trifluralin	ND	1.14	0.971	117		70-130
Hexachlorobenzene	ND	0.903	0.971	93		70-130
Simazine	ND	0.588	0.971	61	*	70-130
Atrazine	ND	0.611	0.971	63	*	70-130
Phenanthrene	ND	1.03	0.971	106		70-130
Anthracene	ND	0.109	0.971	11	*	70-130
Terbacil	ND	0.839	0.971	86		70-130
Metribuzin	ND	0.997	0.971	103		70-130
Alachlor	ND	0.994	0.971	102		70-130
Di-n-butyl Phthalate	ND	1.06	0.971	109		70-130
Bromacil	ND	0.0627	0.971	6	*	70-130
Malathion	ND	0.637	0.971	66	*	70-130
Metolachlor	ND	1.04	0.971	107		70-130
Parathion	ND	0.997	0.971	103		70-130
Fluoranthene	ND	0.870	0.971	90		70-130
Butachlor	ND	0.951	0.971	98		70-130
Pyrene	ND	0.786	0.971	81		70-130
Benzyl butyl phthalate	ND	0.947	0.971	98		70-130
Bis(2-ethylhexyl) Adipate	ND	1.01	0.971	104		70-130
Benz(a)anthracene	ND	0.447	0.971	46	*	70-130
Chrysene	ND	0.966	0.971	100		70-130
Bis(2-ethylhexyl) Phthalate	ND	1.02	0.971	105		70-130
Benzo(b)fluoranthene	ND	1.01	0.971	104		70-130
Benzo(k)fluoranthene	ND	0.858	0.971	88		70-130
Benzo(a)pyrene	ND	0.0590	0.971	6	*	70-130

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

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Extracted:**	06/01/2010
Sample Matrix:	Drinking water	**Date Analyzed:**	06/03/2010

Matrix Spike Summary
Semivolatile Organics by EPA Method 525.2

Sample Name:	Batch QC	**Units:**	ug/L
Lab Code:	K1005474-001	**Basis:**	NA
Extraction Method:	METHOD	**Level:**	Low
Analysis Method:	525.2	**Extraction Lot:**	KWG1005218

		Batch QCMS KWG1005218-2 Matrix Spike			
Analyte Name	**Sample Result**	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Indeno(1,2,3-cd)pyrene	ND	0.980	0.971	101	70-130
Dibenz(a,h)anthracene	ND	0.970	0.971	100	70-130
Benzo(g,h,i)perylene	ND	0.972	0.971	100	70-130

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

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Drinking water

Service Request: K1005176
Date Extracted: 05/24/2010
Date Analyzed: 05/24/2010

Lab Control Spike Summary
Semivolatile Organics by EPA Method 525.2

Extraction Method: METHOD
Analysis Method: 525.2

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1004860

	Lab Control Sample KWG1004860-3 Lab Control Spike				
Analyte Name	**Result**	**Expected**	**%Rec**		**%Rec Limits**
Hexachlorocyclopentadiene	0.801	1.00	80		70-130
EPTC	0.917	1.00	92		70-130
Dimethyl Phthalate	0.939	1.00	94		70-130
Acenaphthylene	0.912	1.00	91		70-130
Acenaphthene	0.897	1.00	90		70-130
Diethyl Phthalate	1.06	1.00	106		70-130
Fluorene	0.936	1.00	94		70-130
Propachlor	0.947	1.00	95		70-130
Trifluralin	0.950	1.00	95		70-130
Hexachlorobenzene	0.861	1.00	86		70-130
Simazine	0.808	1.00	81		70-130
Atrazine	0.880	1.00	88		70-130
Phenanthrene	0.935	1.00	93		70-130
Anthracene	0.918	1.00	92		70-130
Terbacil	0.868	1.00	87		70-130
Metribuzin	0.958	1.00	96		70-130
Alachlor	0.972	1.00	97		70-130
Di-n-butyl Phthalate	1.02	1.00	102		70-130
Bromacil	0.959	1.00	96		70-130
Malathion	0.588	1.00	59	*	70-130
Metolachlor	0.940	1.00	94		70-130
Parathion	0.882	1.00	88		70-130
Fluoranthene	0.838	1.00	84		70-130
Butachlor	0.853	1.00	85		70-130
Pyrene	0.833	1.00	83		70-130
Benzyl butyl phthalate	0.893	1.00	89		70-130
Bis(2-ethylhexyl) Adipate	0.890	1.00	89		70-130
Benz(a)anthracene	0.876	1.00	88		70-130
Chrysene	0.943	1.00	94		70-130
Bis(2-ethylhexyl) Phthalate	0.885	1.00	89		70-130
Benzo(b)fluoranthene	0.840	1.00	84		70-130
Benzo(k)fluoranthene	0.882	1.00	88		70-130
Benzo(a)pyrene	0.849	1.00	85		70-130
Indeno(1,2,3-cd)pyrene	0.822	1.00	82		70-130
Dibenz(a,h)anthracene	0.803	1.00	80		70-130

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

Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Extracted:**	05/24/2010
Sample Matrix:	Drinking water	**Date Analyzed:**	05/24/2010

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:	KWG1004860

	Lab Control Sample KWG1004860-3 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Benzo(g,h,i)perylene	0.789	1.00	79	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.

Client: Kennedy/Jenks Consultants, Incorporated
Project: City of Longview/0997003.00
Sample Matrix: Drinking water

Service Request: K1005176
Date Extracted: 06/01/2010
Date Analyzed: 06/02/2010

Lab Control Spike Summary
Semivolatile Organics by EPA Method 525.2

Extraction Method: METHOD
Analysis Method: 525.2

Units: ug/L
Basis: NA
Level: Low
Extraction Lot: KWG1005218

	Lab Control Sample KWG1005218-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Hexachlorocyclopentadiene	0.909	1.00	91	70-130
EPTC	0.979	1.00	98	70-130
Dimethyl Phthalate	1.10	1.00	110	70-130
Acenaphthylene	1.08	1.00	108	70-130
Acenaphthene	1.10	1.00	110	70-130
Diethyl Phthalate	1.26	1.00	126	70-130
Fluorene	1.20	1.00	120	70-130
Propachlor	1.08	1.00	108	70-130
Trifluralin	1.06	1.00	106	70-130
Hexachlorobenzene	1.03	1.00	103	70-130
Simazine	1.05	1.00	105	70-130
Atrazine	1.01	1.00	101	70-130
Phenanthrene	1.05	1.00	105	70-130
Anthracene	1.08	1.00	108	70-130
Terbacil	1.04	1.00	104	70-130
Metribuzin	1.04	1.00	104	70-130
Alachlor	1.05	1.00	105	70-130
Di-n-butyl Phthalate	1.13	1.00	113	70-130
Bromacil	1.06	1.00	106	70-130
Malathion	0.678	1.00	68 *	70-130
Metolachlor	1.05	1.00	105	70-130
Parathion	1.02	1.00	102	70-130
Fluoranthene	0.960	1.00	96	70-130
Butachlor	0.963	1.00	96	70-130
Pyrene	0.946	1.00	95	70-130
Benzyl butyl phthalate	1.00	1.00	100	70-130
Bis(2-ethylhexyl) Adipate	1.03	1.00	103	70-130
Benz(a)anthracene	0.954	1.00	95	70-130
Chrysene	1.04	1.00	104	70-130
Bis(2-ethylhexyl) Phthalate	1.03	1.00	103	70-130
Benzo(b)fluoranthene	0.994	1.00	99	70-130
Benzo(k)fluoranthene	0.941	1.00	94	70-130
Benzo(a)pyrene	0.996	1.00	100	70-130
Indeno(1,2,3-cd)pyrene	0.973	1.00	97	70-130
Dibenz(a,h)anthracene	0.966	1.00	97	70-130

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Client:	Kennedy/Jenks Consultants, Incorporated	**Service Request:**	K1005176
Project:	City of Longview/0997003.00	**Date Extracted:**	06/01/2010
Sample Matrix:	Drinking water	**Date Analyzed:**	06/02/2010

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:	KWG1005218

	Lab Control Sample KWG1005218-1 Lab Control Spike			
Analyte Name	**Result**	**Expected**	**%Rec**	**%Rec Limits**
Benzo(g,h,i)perylene	0.967	1.00	97	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.

CHAIN OF CUSTODY

Columbia Analytical Services

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

SR#: K1005176

PAGE _____ OF _____ COC #_____

PROJECT NAME	City of Longview
PROJECT NUMBER	097003 00
PROJECT MANAGER	Don Larson
COMPANY/ADDRESS	Kennedy/Jenks
	200 SW Market St Ste 500
CITY/STATE/ZIP	Portland, OR 97201
E-MAIL ADDRESS	donlarson@kennedyjenks.com
PHONE #	503-295-4911
FAX #	503-295-4901
SAMPLER'S SIGNATURE	Kimberly A Slack

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (* see below) Gas ☐ Diesel ☐ Oil ☐ ☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☐	Metals, (Total or Dissolved) (See list below) E200.7, E200.8	Cyanide ☐ Hex-Chrom ☐	pH; Cond.; Cl; SO_4; PO_4; F; NO_2; NO_3; BOD; TSS; TDS (circle)	NH_3-N; COD; Total-P; TKN; TOC; DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	525.2 / 8270	524.2 / VOC			REMARKS
DW-9100519	5/19/10	11:10			6	~~X~~	~~X~~							X						X	X				
DW-2-100519	5/19/10	14:00			6																				
DW-1-100519	5/19/10	15:15			6																				
DW-6-100520	5/20/10	10:15			6																				
DW-5-100520	5/20/10	11:40			6																				
DW-7-100520	5/20/10	14:10			6																				
QLFD-1-100520	5/20/10	11:45			6																				

REPORT REQUIREMENTS

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

___ II. Report Dup., MS, MSD as required

___ III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

___ V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: City of Longview

Amy Blain

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 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:

6 Trip Blanks not on COC

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

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Kimberly A Slack 5/20/10 14:35	1438		
Signature / Date/Time	Signature / Date/Time	Signature / Date/Time	Signature / Date/Time
Kimberly A. Slack Kennedy/Jenks	John Jones 5/20/10 CAS		
Printed Name / Firm	Printed Name / Firm	Printed Name / Firm	Printed Name / Firm

RCOC #1 03/10

PC LH

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

Client / Project: Kennedy Jenks Service Request K10 05176

Received: 5-20-10 Opened: 5-20-10 By: DW

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

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

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
4.9	2.6	266			
4.2	3.5	258			

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

Sample ID on Bottle	Sample ID on COC	Identified by:
NO I.D	DW5 100520	

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

Notes, Discrepancies, & Resolutions: 6 Trip Blanks not on C.O.C
Sample VOA DW5-100520 placed by process of elimination