

Appendix C:

Data Validation Reports



Technical Memorandum

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Subject: Data Validation Report
Green River Water Samples

This technical memorandum summarizes the data validation review performed on Green River water samples collected between September 13, 2011 and December 3, 2012. These samples included 18 baseflow bulk water samples, 38 storm bulk water samples, six baseflow integrated water samples, six storm integrated water samples, and one field blank. All samples were submitted for analysis of total and dissolved organic carbon, total suspended solids, total and dissolved arsenic, and polycyclic aromatic hydrocarbons (PAHs).

1.0 INTRODUCTION

This data validation review has been based, in part, on guidance found in *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (EPA 2008) and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (EPA 2010), as well as the project sampling and analysis plan (SAP) (King County 2011) and SAP addendum (King County 2012). Materials reviewed included Batch Reports and Analytical Quality Control (QC) Reports downloaded from the King County Laboratory Information System (LIMS) database, along with data anomaly forms, all of which are included in this memorandum as Attachment A. The QC parameters reviewed during this data validation include; holding time, method blanks, spike blanks, spike blank duplicates, laboratory control samples, matrix spikes, matrix spike duplicates, laboratory duplicates, and surrogates, which are described below.

1.1 Holding Time

The analytical holding time is a method-specific timeframe, during which sample preparation and analysis should occur to provide valid data. All samples should be analyzed within this prescribed holding time.

1.2 Method Blank

A method blank is an aliquot of clean reference matrix that is generally processed through the entire analytical procedure. Analysis of the method blank is used to evaluate the levels of

contamination that might be associated with the processing and analysis of samples. All method blank results should be less than the method detection limit (MDL). Method blanks were included with all analyses.

1.3 Spike Blank

A spike blank is an aliquot of the clean reference matrix used for the method blank, to which a known concentration of target analyte(s) has been added. The spiked aliquot is processed through the entire analytical procedure. Analysis of the spike blank is used as an indicator of method accuracy. Spike blanks were used as part of the QC regimen for all analyses with the exception of total suspended solids. Spike blanks are not addressed in the *National Functional Guidelines*, however, King County has method-defined or empirically-derived control limits for spike blank analytes, which are shown on the attached QC reports. Spike blank results should be within these control limits. During the planning phase of this project, the King County Environmental Laboratory artificially set the laboratory QC limits for PAH spike blank recoveries at 40 – 160%, due to a lack of sufficient data to control chart the spike blank recoveries for this analytical method. These are the control limits shown on the attached QC reports for PAHs (Attachment A). During the course of the project and another concurrent project, the large number of samples (~200) provided enough data to allow control charting and derivation of empirical QC limits. The new empirically-derived PAH spike blank control limits are shown in the following table.

PAH Compound	SB Lower QC Limit (%)	SB Upper QC Limit (%)
Acenaphthene	45	114
Acenaphthylene	56	124
Anthracene	47	107
Fluorene	54	122
2-Methylnaphthalene	21	136
Naphthalene	47	100
Phenanthrene	57	104
Benzo(a)anthracene	86	111
Benzo(a)pyrene	40	135
Benzo(b,j,k)fluoranthene	71	131
Benzo(g,h,i)perylene	63	126
Chrysene	77	111
Dibenzo(a,h)anthracene	61	139
Fluoranthene	73	116
Indeno(1,2,3-c,d)pyrene	58	137
Pyrene	66	143

1.4 Spike Blank Duplicate

A spike blank duplicate is a second aliquot of clean reference matrix fortified with a known concentration of a target analyte(s). The spiked blank is processed through the entire analytical procedure. Spike blank duplicates were analyzed as part of the QC regimen for PAH analysis. Analysis of the spike blank duplicate is used as an additional indicator of method accuracy as well as an indicator of method precision. The relative percent difference (RPD) between spike blank duplicate results are not addressed in the *National Functional Guidelines*. King County

used a project-specific QC limit of 40% for the RPD between spike blank duplicate results (King County 2011, 2012). The RPD for spike blank duplicate results should be less than this QC limit.

1.5 Matrix Spike

A matrix spike is a sample aliquot fortified with a known concentration of a target analyte(s). The spiked sample is processed through the entire analytical procedure. Analysis of the matrix spike is used as an indicator of sample matrix effect on the recovery of target analyte(s). Matrix spike analysis was used as part of the QC regimen for total and dissolved arsenic, total and dissolved organic carbon, and PAH analyses. Matrix spike recoveries for total and dissolved arsenic should be within 75 to 125% (EPA 2010). *National Functional Guidelines* does not address matrix spikes for organic carbon and PAH analyses. The King County Environmental Laboratory uses QC limits of 75 to 125% for total and dissolved organic carbon.

During the planning phase of this project, the King County Environmental Laboratory artificially set the laboratory QC limits for PAH matrix spike recoveries at 40 – 160%, due to a lack of sufficient data to control chart the spike blank recoveries for this analytical method. These are the control limits shown on the attached QC reports for PAHs (Attachment A). During the course of the project and another concurrent project, the large number of samples (~200) provided enough data to allow control charting and derivation of empirical QC limits. The new empirically-derived PAH matrix spike control limits are shown in the following table. PAH matrix spike recoveries should be within these control limits.

PAH Compound	MS Lower QC Limit (%)	MS Upper QC Limit (%)
Acenaphthene	38	90
Acenaphthylene	48	107
Anthracene	49	112
Fluorene	42	113
2-Methylnaphthalene	28	97
Naphthalene	31	80
Phenanthrene	51	98
Benzo(a)anthracene	83	114
Benzo(a)pyrene	27	160
Benzo(b,j,k)fluoranthene	43	146
Benzo(g,h,i)perylene	26	140
Chrysene	68	115
Dibenzo(a,h)anthracene	24	154
Fluoranthene	65	125
Indeno(1,2,3-c,d)pyrene	15	164
Pyrene	62	130

1.6 Matrix Spike Duplicate

A matrix spike duplicate is a second sample aliquot fortified with a known concentration of a target analyte(s). The spiked sample is processed through the entire analytical procedure. Matrix spike duplicates were analyzed as part of the QC regimen for PAH analysis. Analysis of the matrix spike duplicate is used as an additional indicator of sample matrix effect on the recovery of target analyte(s) as well as an indicator of method precision. The King County

Environmental Laboratory used an RPD of 40% as the QC limit for this project. The RPDs between matrix spike and matrix spike duplicate results should all be below this limit.

1.7 Laboratory Duplicate

A laboratory duplicate is a second aliquot of a sample, processed concurrently and in an identical manner with the original sample. Analysis of the laboratory duplicate is used as an indicator of method precision. The laboratory duplicate can also be used to provide information regarding the homogeneity of the sample matrix. QC results are reported as a relative percent difference (RPD) between the sample and laboratory duplicate results. Laboratory duplicates were used as part of the QC regimen for all analyses performed on this dataset. The RPD between laboratory duplicate results should be less than 20% for all total and dissolved arsenic analyses (EPA 2010). *National Functional Guidelines* does not address laboratory duplicates for organic or conventional analyses. The King County Environmental Laboratory uses RPD QC limits of 20% for total and dissolved organic carbon and 25% for total solids. For this project, an RPD of 40% was used as the laboratory QC limit for PAH laboratory duplicates. The RPDs for all laboratory duplicate results should be below these limits.

1.8 Surrogates

A surrogate is a known concentration of non-target analyte which is added to each sample (both analytical and QC samples) prior to extraction and analysis for all trace organic analyses. Surrogate recovery is used as a sample-specific indication of method or matrix bias for target analytes. The surrogate is selected to behave in a similar manner to the target analytes.

The King County Environmental Laboratory used two surrogate compounds during analysis of PAHs, 2-fluorobiphenyl and d14-terphenyl. During the planning phase of this project, the King County Environmental Laboratory artificially set the laboratory QC limits for surrogate recoveries at 40 – 160%, due to a lack of sufficient data to control chart the surrogate recoveries for this analytical method. These are the control limits shown on the attached QC reports for PAHS (Attachment A). During the course of the project and another concurrent project, the large number of samples (~200) provided enough data to allow control charting and derivation of empirical QC limits. The empirically-derived surrogate recovery limits are 23 to 124% for 2-fluorobiphenyl and 63 to 154% for d14-terphenyl. Surrogate recoveries for all analytical and QC samples should be within these control limits. These two surrogate compounds are not addressed in *National Functional Guidelines*.

2.0 CONVENTIONALS

A total of 69 samples were submitted for analysis of total and dissolved organic carbon and total suspended solids. These 69 samples included 18 baseflow bulk water samples, 38 storm bulk water samples, 6 baseflow integrated water samples, 6 storm integrated water samples, and one field blank.

2.1 Total and Dissolved Organic Carbon

Total and dissolved organic carbon (TOC/DOC) analysis was performed by Standard Method SM5310-B (APHA 1998), which is a high-temperature combustion/infrared detection method.

Each work group included analysis of a minimum of five QC samples; method blanks, spike blanks, laboratory control samples, matrix spikes, and laboratory duplicates.

2.2.1 Holding Time

All 69 TOC/DOC samples were analyzed within the prescribed 28-day holding time.

2.2.2 Method Blanks

TOC/DOC results in all method blanks were less than the MDL.

2.2.3 Spike Blanks

TOC/DOC spike blank were all within the laboratory QC limits of 80 to 120%, ranging from 89 to 111%.

2.2.4 Laboratory Control Samples

TOC/DOC laboratory control sample recoveries were all within the 85 to 115% QC limits, ranging from 86 to 109%.

2.2.5 Matrix Spikes

TOC/DOC matrix spike recoveries were all within the 75 to 125% QC limits, ranging from 88 to 123%.

2.2.6 Laboratory Duplicates

The RPDs between TOC/DOC laboratory duplicate results were all less than the 20% QC limit, ranging from 1 to 15%.

2.2.7 Data Integrity Issue

During the course of data analysis, it was discovered that the use of an acetone rinse on field sampling equipment for this project likely lead to analytical bias resulting in high-biased TOC and DOC sample results in the 18 baseflow samples. Project managers, laboratory personnel, and the data validator discussed the issue and the decision was reached to reject all TOC and DOC results in samples L54147-1 through -4, L54148-1 through -2, L54149-1 through -2, L54090-1 through -3, L54117-1 through -3, and L54125-1, -3, and -4.

2.2 Total Suspended Solids

Total suspended solids (TSS) analysis was performed by gravimetric determination following Standard Method SM2540-D (APHA 1998). Each work group included analysis of a minimum of three QC samples; method blanks, laboratory control samples, and laboratory duplicates.

2.2.1 Holding Time

All 69 TSS samples were analyzed within the prescribed 7-day holding time.

2.2.2 Method Blanks

TSS results in all method blanks were less than the MDL.

2.2.3 Laboratory Control Samples

TSS recoveries in all laboratory control samples were within the 80 to 120% QC limits, ranging from 84 to 115%.

2.2.4 Laboratory Duplicates

The RPDs between TSS laboratory duplicate results were all less than the 25% QC limit, ranging from 0 to 20%.

3.0 Total and Dissolved Arsenic

A total of 69 samples were submitted for analysis of total and dissolved arsenic by inductively coupled plasma-mass spectrometry following EPA Method 200.8 (EPA 1994). These 69 samples included 18 baseflow bulk water samples, 38 storm bulk water samples, 6 baseflow integrated water samples, 6 storm integrated water samples, and one field blank. Associated QC samples analyzed with each work group included a method blank, a spike blank, a matrix spike, and a laboratory duplicate.

3.1 Holding Time

All 69 total and dissolved arsenic samples were analyzed within the method-specified 6-month holding time. Dissolved arsenic samples, however, were not filtered within the method-specified 15-minute holding time. This can have an impact on data quality for dissolved metals, dependent on sample turbidity, sample container, and pH of the sample. As a result of this missed filtering holding time, the dissolved arsenic result for all 69 samples should be qualified with a "J" flag and considered estimated, with an unknown bias.

3.2 Method Blanks

All total and dissolved arsenic method blank results were less than the MDL, indicating that laboratory contamination was not an issue during sample digestion and analysis.

3.3 Spike Blanks

All total metals spike blank results were within the empirically-derived laboratory QC limits of 85 to 115%, ranging from 95 to 108%, indicating acceptable overall method accuracy.

3.4 Matrix Spikes

All total and dissolved arsenic matrix spike recoveries were within the 75 to 125% laboratory QC limits recommended in *National Functional Guidelines*, ranging from 92 to 110%, indicating acceptable matrix-specific method accuracy.

3.5 Laboratory Duplicates

The RPDs between total and dissolved arsenic laboratory duplicate results were all less than the 20% QC limit recommended in *National Functional Guidelines*, ranging from 0 to 9%

4.0 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

A total of 69 samples were submitted for analysis of 16 PAH compounds by gas chromatography with mass spectroscopy (GC-MS) following EPA Methods 3520C/8270D – SW846 (EPA 2007). This method was modified by the use of a large volume injector (LVI) and analysis using selected ion monitoring (SIM). These 69 samples included 18 baseflow bulk water samples, 38 storm bulk water samples, 6 baseflow integrated water samples, 6 storm integrated water samples, and one field blank. Associated QC samples included method blanks, spike blanks/spike blank duplicates, matrix spikes/matrix spike duplicates, and laboratory duplicates. Note that not all of the aforementioned QC samples were analyzed with each QC batch (workgroup), however, a method blank, spike blank, matrix spike, and one precision analysis (spike blank duplicate, matrix spike duplicate, or laboratory duplicate) were analyzed with each work group. Surrogates were included with every PAH sample analysis, both for analytical and QC samples.

4.1 Holding Time

All 69 samples were extracted within the 14-day holding time and analyzed within the subsequent 40-day holding time.

4.2 Method Blanks

Between 5 and 12 PAH compounds were detected in every method blank associated with this data set. All of the positive PAH method blank results were detected at concentrations less than the reporting detection limit (RDL), which is the limit of practical quantitation. Based on the recommendations in *National Function Guidelines* (EPA 2008), the following data qualification regime should be employed as a result of method blank contamination:

- When both the method blank concentration and the sample concentration are less than the RDL, the sample value should be reported as the numeric RDL value and the result should be qualified with a “U” flag and considered undetected.
- When the method blank concentration is less than the RDL and the sample concentration is greater than the RDL but less than 10 times the method blank concentration, the sample value should be used as reported but the result should be qualified with a “U” flag and considered undetected.
- When the method blank concentration is less than the RDL and the sample concentration is greater than the RDL and greater than 10 times the method blank concentration, the sample result may be used as reported, without qualification.

4.3 Spike Blanks/Spike Blank Duplicates

The naphthalene spike blank recovery of 32% in work group WG124534 was below the empirically-derived lower QC limit of 47%. Naphthalene results for five of the six samples associated with that work group have already been qualified with a “U” due to method blank contamination. Because of the conflicting bias issues between low spike blank recovery (potential low bias) and method blank contamination (potential high bias), data for these five samples (L56869-1 through -5) should be qualified with a “UJ” flag with an unknown bias. The naphthalene results in the sixth sample, L56869-6, should be qualified with a “J” flag and

considered estimated with an unknown bias. All other spike blank recoveries associated with this dataset were within the empirically-derived laboratory QC limits shown in Section 1.3. When spike blank duplicates were analyzed, the RPDs between spike blank duplicate results were all below the 40% laboratory QC limit.

4.4 Matrix Spikes/Matrix Spike Duplicates

The pyrene matrix spike recovery of 165% in work group LWG119622 exceeded the empirically-derived upper QC limit of 130%. The pyrene result in sample L54686-1, on which the matrix spike was performed has already been qualified with a "U" flag due to method blank contamination. Because of the high matrix spike recovery, coupled with the method blank contamination, the pyrene data in this sample should be qualified with a "UJ" flag and considered estimated with a high bias.

The naphthalene matrix spike recovery of 17% in work group WG119922 was below the empirically-derived lower QC limit of 31%. The naphthalene result in sample L55077-1 should be qualified with a "J" flag and considered an estimate with a low bias.

All other matrix spike recoveries were within the empirically-derived QC limits shown in Section 1.5. When matrix spike duplicates were performed, all RPDs between matrix spike and matrix spike duplicate recoveries were below the 40% laboratory QC limit.

4.5 Laboratory Duplicates

The RPDs between naphthalene results in each laboratory duplicate analyzed in association with the bulk storm water samples exceeded the 40% laboratory QC limit, ranging from 50 to 162%. As a result of consistent low precision measurement, detected naphthalene results in all bulk storm water samples should be qualified with a "J" flag and considered estimated with an unknown bias (see Table 2 attached).

The RPDs between laboratory duplicate results for indeno(1,2,3-c,d)pyrene (46%) and anthracene (87%) in work group WG118646 both exceeded the 40% laboratory QC limit. Results for these two compounds in sample L54681-3 should be qualified with a "J" flag and considered estimated with an unknown bias.

The RPD of 58% between laboratory duplicate results for anthracene in work group WG119622 exceeded the 40% laboratory QC limit. The anthracene result in sample L54686-2 should be qualified with a "J" flag and considered estimated with an unknown bias.

The RPDs between results for 15 of 16 PAH compounds in the laboratory duplicate associated with work group WG119922 all exceeded the 40% laboratory QC limit, ranging from 56 to 200%. The RPD between laboratory duplicate results for 2-methylnaphthalene was 0%. Results for all PAH compounds except 2-methylnaphthalene in sample L55077-2 should be qualified with a "J" flag and considered estimated with an unknown bias.

The RPD of 48% between laboratory duplicate results for anthracene in work group WG120336 exceeded the 40% laboratory QC limit. The anthracene result in sample L55284-2 should be

qualified with a “J” flag and considered estimated with an unknown bias. RPDs between all other laboratory duplicate results were less than the 40% laboratory QC limit.

4.6 Surrogates

Surrogate recoveries in both analytical and QC samples were with the empirically-derived QC limits referenced in Section 1.8 for all samples in this dataset.

5.0 DATA USABILITY

As a general data reporting format, conventional parameters, arsenic and PAH sample results that are reported as “<MDL” should be assigned a “U” flag in all cases and considered undetected. Conventional, arsenic, and PAH sample results that are reported as “<RDL” should be assigned a “J” flag in all cases and considered estimated with an unknown bias. Tables 1 through 4 at the end of this narrative provide the appropriate data qualifier flags, if required, for every sample/analyte in this data set. These flags are based on the data quality issues summarized in Sections 2.0, 3.0, and 4.0. LIMS Batch and QC reports and data anomaly forms are provided as Attachment A.

6.0 REFERENCES

APHA 1998. *Standard Methods for the Examination of Water and Wastewater, 20th Edition*. American Public Health Association. Washington, D.C.

EPA 1994. *Determination of Trace Elements in Waters and Wastes by Inductively Coupled Plasma – Mass Spectrometry. Method 200.8, Revision 5.4*. United States Environmental Protection Agency, Office of Research and Development. Cincinnati, Ohio.

EPA 2007. *Test Methods for Evaluating Solid Waste. Laboratory Manual – Physical/Chemical Methods, SW-846, 3rd Edition, Update IVB*. United State Environmental Protection Agency, Office of Solid Waste and Emergency Response. Washington, D.C.

EPA 2008. *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*. OSWER 9240.1-48, USEPA-540-R-08-01. United States Environmental Protection Agency. Washington, D.C. June 2001.

EPA 2010. *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Inorganic Data Review*. OSWER 9240.1-51, USEPA-540-R-10-011. United States Environmental Protection Agency. Washington, D.C. January 2010.

King County 2011. *Green River Loading Study Sampling and Analysis Plan*. King County Department of Natural Resources and Parks. Seattle, Washington.

King County 2012. *Integrated Water Sample Collection Addendum – Green River Study Sampling and Analysis Plan*. King County Department of Natural Resources and Parks. Seattle, Washington.

ATTACHMENT A

LIMS BATCH AND QC REPORTS

LIMSView Batch Report for Green River Baseflow Samples - Data Validation for Conventionals

WG117453 - Dissolved Organic Carbon/Total Organic Carbon

Sample	Project	Project Description	List Type	Matrix	Coll. Date	Prep. Date	Anal. Date	Comments
L53667-1	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	FRESH WTR	09/06/11	09/07/11	09/13/11	
L53667-2	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	FRESH WTR	09/06/11	09/07/11	09/13/11	
L53667-3	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	FRESH WTR	09/06/11	09/07/11	09/13/11	
L53667-4	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	FRESH WTR	09/06/11	09/07/11	09/13/11	
L53667-5	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	FRESH WTR	09/06/11	09/07/11	09/13/11	
L53667-6	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	FRESH WTR	09/06/11	09/07/11	09/13/11	
L54036-1	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	BLANK WTR	08/29/11	08/30/11	09/13/11	
L54040-1	421195-190	Vashon Island Surface Water	CVDOC	FRESH WTR	09/07/11	09/08/11	09/13/11	
L54040-2	421195-190	Vashon Island Surface Water	CVDOC	FRESH WTR	09/07/11	09/08/11	09/13/11	
L54040-3	421195-190	Vashon Island Surface Water	CVDOC	FRESH WTR	09/07/11	09/08/11	09/13/11	
L54040-4	421195-190	Vashon Island Surface Water	CVDOC	FRESH WTR	09/07/11	09/08/11	09/13/11	
L54063-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/13/11	09/14/11	09/14/11	
L54090-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/06/11	09/08/11	09/13/11	
L54090-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/06/11	09/08/11	09/13/11	
L54090-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/06/11	09/08/11	09/13/11	
L54117-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/07/11	09/09/11	09/13/11	
L54117-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/07/11	09/09/11	09/13/11	
L54117-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/07/11	09/09/11	09/13/11	
L54117-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/07/11	09/09/11	09/13/11	
L54125-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/12/11	09/14/11	09/14/11	
L54125-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/12/11	09/14/11	09/14/11	
L54125-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/12/11	09/14/11	09/14/11	
L54125-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/12/11	09/14/11	09/14/11	
L54125-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/12/11	09/14/11	09/14/11	
L54125-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/12/11	09/14/11	09/14/11	
WG117453-1	MB		CVDOC	BLANK WTR		09/07/11	09/13/11	MB1 110907 7:46
WG117453-2	LCS		CVDOC	BLANK WTR		09/13/11	09/13/11	LEVEL1
WG117453-3	SB		CVDOC	BLANK WTR		09/07/11	09/13/11	WG117453-1
WG117453-4	LD		CVDOC	FRESH WTR		09/07/11	09/13/11	L53667-2
WG117453-5	MS		CVDOC	FRESH WTR		09/07/11	09/13/11	L53667-3
WG117453-6	MB		CVDOC	BLANK WTR		08/30/11	09/13/11	MB1 110830 11:30
WG117453-7	MS		CVDOC	BLANK WTR		08/30/11	09/13/11	L54036-1
WG117453-8	MB		CVDOC	BLANK WTR		09/08/11	09/13/11	MB1 110908 14:00
WG117453-9	LD		CVDOC	FRESH WTR		09/08/11	09/13/11	L54040-3
WG117453-10	MS		CVDOC	FRESH WTR		09/08/11	09/13/11	L54090-3
WG117453-11	MB		CVDOC	BLANK WTR		09/09/11	09/13/11	MB1 110909 12:00
WG117453-12	LCS		CVDOC	BLANK WTR		09/13/11	09/13/11	LEVEL1
WG117453-13	LD		CVDOC	FRESH WTR		09/09/11	09/13/11	L54117-2

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WG117453-14	MS		CVDOC	FRESH WTR	09/09/11	09/13/11	L54117-4
WG117453-15	MB		CVTOC	BLANK WTR	09/13/11	09/13/11	MB1 110913
WG117453-16	LCS		CVTOC	BLANK WTR	09/14/11	09/14/11	LEVEL1
WG117453-17	MB		CVTOC	BLANK WTR	09/14/11	09/14/11	MB1 110914
WG117453-18	LCS		CVTOC	BLANK WTR	09/14/11	09/14/11	LEVEL1
WG117453-19	SB		CVTOC	BLANK WTR	09/14/11	09/14/11	WG117453-17
WG117453-20	LD		CVTOC	FRESH WTR	09/14/11	09/14/11	L54125-3
WG117453-21	MS		CVTOC	FRESH WTR	09/14/11	09/14/11	L54125-4
WG117453-22	MB		CVDOC	BLANK WTR	09/14/11	09/14/11	MB1 110914 10:00
WG117453-23	LCS		CVDOC	BLANK WTR	09/14/11	09/14/11	LEVEL1
WG117453-24	SB		CVDOC	BLANK WTR	09/14/11	09/14/11	WG117453-22
WG117453-25	LD		CVDOC	FRESH WTR	09/14/11	09/14/11	L54125-3
WG117453-26	MS		CVDOC	FRESH WTR	09/14/11	09/14/11	L54125-4

WG117545 - Dissolved Organic Carbon/Total Organic Carbon

Sample	Project	Project Description	List Type	Matrix	Coll. Date	Prep. Date	Anal. Date	Comments
L54020-1	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	FRESH WTR	09/19/11	09/20/11	09/21/11	
L54020-1	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	FRESH WTR	09/19/11	09/20/11	09/20/11	
L54020-2	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	FRESH WTR	09/19/11	09/20/11	09/21/11	
L54020-2	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	FRESH WTR	09/19/11	09/20/11	09/20/11	
L54020-3	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	FRESH WTR	09/19/11	09/20/11	09/21/11	
L54020-3	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	FRESH WTR	09/19/11	09/20/11	09/20/11	
L54021-1	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	SALT WTR	09/19/11	09/20/11	09/21/11	
L54021-1	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	SALT WTR	09/19/11	09/20/11	09/20/11	
L54021-2	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	SALT WTR	09/19/11	09/20/11	09/21/11	
L54021-2	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	SALT WTR	09/19/11	09/20/11	09/20/11	
L54021-3	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	SALT WTR	09/19/11	09/20/11	09/21/11	
L54021-3	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	SALT WTR	09/19/11	09/20/11	09/20/11	
L54073-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/15/11	09/19/11	09/19/11	
L54073-3	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/15/11	09/19/11	09/19/11	
L54073-5	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/19/11	09/19/11	09/19/11	
L54075-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/14/11	09/19/11	09/19/11	
L54076-1	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	09/19/11	09/19/11	09/19/11	
L54126-1	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	09/13/11	09/15/11	09/21/11	
L54126-1	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	09/13/11	09/20/11	09/20/11	
L54126-3	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	09/13/11	09/15/11	09/21/11	
L54126-3	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	09/13/11	09/20/11	09/20/11	
L54147-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/11	09/15/11	09/21/11	
L54147-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/11	09/20/11	09/20/11	
L54147-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/11	09/15/11	09/21/11	

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L54147-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/11	09/20/11	09/20/11
L54147-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/11	09/15/11	09/21/11
L54147-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/11	09/20/11	09/20/11
L54147-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/11	09/15/11	09/21/11
L54147-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/11	09/20/11	09/20/11
L54148-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/14/11	09/16/11	09/20/11
L54148-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/14/11	09/19/11	09/19/11
L54148-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/14/11	09/16/11	09/20/11
L54148-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/14/11	09/19/11	09/19/11
L54149-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/15/11	09/16/11	09/21/11
L54149-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/15/11	09/19/11	09/19/11
L54149-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/15/11	09/16/11	09/21/11
L54149-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/15/11	09/19/11	09/19/11
L54154-2	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	09/14/11	09/16/11	09/21/11
L54154-2	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	09/14/11	09/20/11	09/20/11
L54154-3	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	09/14/11	09/16/11	09/21/11
L54154-3	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	09/14/11	09/20/11	09/20/11
WG117545-1	MB		CVTOC	BLANK WTR	09/19/11	09/19/11	MB1 09/19/11
WG117545-2	LCS		CVTOC	BLANK WTR	09/19/11	09/19/11	LEVEL1
WG117545-3	SB		CVTOC	BLANK WTR	09/19/11	09/19/11	WG117545-1
WG117545-4	LD		CVTOC	GRND WTR	09/19/11	09/19/11	L54073-5
WG117545-5	MS		CVTOC	GRND WTR	09/19/11	09/19/11	L54075-1
WG117545-6	LD		CVTOC	FRESH WTR	09/19/11	09/19/11	L54076-1
WG117545-7	LD		CVTOC	FRESH WTR	09/19/11	09/19/11	L54149-2
WG117545-8	MS		CVTOC	FRESH WTR	09/20/11	09/20/11	L54147-1
WG117545-9	MB		CVTOC	BLANK WTR	09/20/11	09/20/11	MB1 09/20/11
WG117545-10	LCS		CVTOC	BLANK WTR	09/20/11	09/20/11	LEVEL1
WG117545-11	MS		CVTOC	SEWER WTR	09/20/11	09/20/11	L54154-2
WG117545-12	SB		CVTOC	BLANK WTR	09/20/11	09/20/11	WG117545-9
WG117545-13	LD		CVTOC	FRESH WTR	09/20/11	09/20/11	L54020-1
WG117545-14	MS		CVTOC	FRESH WTR	09/20/11	09/20/11	L54020-3
WG117545-15	LD		CVTOC	SALT WTR	09/20/11	09/20/11	L54021-1
WG117545-16	MS		CVTOC	SALT WTR	09/20/11	09/20/11	L54021-3
WG117545-17	MB		CVDOC	BLANK WTR	09/16/11	09/20/11	MB1 09/16/11
WG117545-18	LCS		CVDOC	BLANK WTR	09/20/11	09/20/11	LEVEL1
WG117545-19	SB		CVDOC	BLANK WTR	09/16/11	09/20/11	WG117545-17
WG117545-20	MB		CVDOC	BLANK WTR	09/16/11	09/21/11	MB2 09/16/11
WG117545-21	LD		CVDOC	FRESH WTR	09/16/11	09/21/11	L54149-1
WG117545-22	MS		CVDOC	FRESH WTR	09/16/11	09/21/11	L54149-2
WG117545-23	MB		CVDOC	BLANK WTR	09/15/11	09/21/11	MB2 09/15/11
WG117545-24	MB		CVDOC	BLANK WTR	09/20/11	09/21/11	MB1 09/20/11

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WG117545-25	LCS		CVDOC	BLANK WTR	09/21/11	09/21/11	LEVEL1
WG117545-26	SB		CVDOC	BLANK WTR	09/20/11	09/21/11	WG117545-24
WG117545-27	LD		CVDOC	FRESH WTR	09/20/11	09/21/11	L54020-1
WG117545-28	MS		CVDOC	FRESH WTR	09/20/11	09/21/11	L54020-3
WG117545-29	LD		CVDOC	SALT WTR	09/20/11	09/21/11	L54021-1
WG117545-30	MS		CVDOC	SALT WTR	09/20/11	09/21/11	L54021-3
WG117545-31	LD		CVTOC	SEWER WTR	09/20/11	09/20/11	L54154-2
WG117545-32	LD		CVDOC	SEWER WTR	09/16/11	09/21/11	L54154-3
WG117545-33	MS		CVDOC	SEWER WTR	09/16/11	09/21/11	L54154-3

WG117384 - Total Organic Carbon

Sample	Project	Project Description	List Type	Matrix	Coll. Date	Prep. Date	Anal. Date	Comments
L53667-1	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	FRESH WTR	09/06/11	09/08/11	09/08/11	
L53667-2	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	FRESH WTR	09/06/11	09/08/11	09/08/11	
L53667-3	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	FRESH WTR	09/06/11	09/08/11	09/08/11	
L53667-4	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	FRESH WTR	09/06/11	09/08/11	09/08/11	
L53667-5	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	FRESH WTR	09/06/11	09/08/11	09/08/11	
L53667-6	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	FRESH WTR	09/06/11	09/08/11	09/08/11	
L53821-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	09/01/11	09/08/11	09/08/11	
L53821-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	09/01/11	09/08/11	09/08/11	
L53936-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/02/11	09/08/11	09/08/11	
L53937-1	421422-CFSW	SWD-CFSW Cedar Falls Surface Water Quarterly	CVTOC	FRESH WTR	08/31/11	09/08/11	09/08/11	
L54036-1	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	BLANK WTR	08/29/11	09/08/11	09/08/11	
L54037-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/01/11	09/08/11	09/08/11	
L54037-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/02/11	09/08/11	09/08/11	
L54040-1	421195-190	Vashon Island Surface Water	CVTOC	FRESH WTR	09/07/11	09/08/11	09/08/11	
L54040-2	421195-190	Vashon Island Surface Water	CVTOC	FRESH WTR	09/07/11	09/08/11	09/08/11	
L54040-3	421195-190	Vashon Island Surface Water	CVTOC	FRESH WTR	09/07/11	09/09/11	09/09/11	
L54040-4	421195-190	Vashon Island Surface Water	CVTOC	FRESH WTR	09/07/11	09/09/11	09/09/11	
L54043-1	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTOC	FRESH WTR	09/08/11	09/09/11	09/09/11	
L54043-3	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTOC	FRESH WTR	09/08/11	09/09/11	09/09/11	
L54043-4	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTOC	FRESH WTR	09/08/11	09/09/11	09/09/11	
L54053-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/01/11	09/08/11	09/08/11	
L54054-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/02/11	09/08/11	09/08/11	
L54054-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/02/11	09/08/11	09/08/11	
L54054-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/02/11	09/08/11	09/08/11	
L54054-5	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/02/11	09/08/11	09/08/11	
L54055-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/06/11	09/08/11	09/08/11	
L54055-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/06/11	09/08/11	09/08/11	
L54059-1	421422-VALS-M	SWD-VALS-M Vashon Leachate Monthly	CVTOC	LEACHATE	09/07/11	09/09/11	09/09/11	

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L54060-1	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	09/07/11	09/09/11	09/09/11
L54060-3	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	09/07/11	09/12/11	09/12/11
L54060-4	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	09/07/11	09/09/11	09/09/11
L54060-5	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	09/07/11	09/09/11	09/09/11
L54062-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/08/11	09/09/11	09/09/11
L54063-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/09/11	09/13/11	09/13/11
L54063-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/09/11	09/13/11	09/13/11
L54065-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/12/11	09/13/11	09/13/11
L54065-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/12/11	09/13/11	09/13/11
L54072-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/12/11	09/13/11	09/13/11
L54090-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/06/11	09/09/11	09/09/11
L54090-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/06/11	09/09/11	09/09/11
L54090-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/06/11	09/09/11	09/09/11
L54117-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/07/11	09/09/11	09/09/11
L54117-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/07/11	09/12/11	09/12/11
L54117-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/07/11	09/12/11	09/12/11
L54117-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/07/11	09/12/11	09/12/11
WG117384-1	MB		CVTOC	BLANK WTR	09/08/11	09/08/11	MB1 110908
WG117384-2	LCS		CVTOC	BLANK WTR	09/08/11	09/08/11	LEVEL1
WG117384-3	SB		CVTOC	BLANK WTR	09/08/11	09/08/11	WG117384-1
WG117384-4	LD		CVTOC	GRND WTR	09/08/11	09/08/11	L54037-3
WG117384-5	MS		CVTOC	GRND WTR	09/08/11	09/08/11	L54054-1
WG117384-6	LD		CVTOC	FRESH WTR	09/08/11	09/08/11	L53937-1
WG117384-7	LD		CVTOC	FRESH WTR	09/08/11	09/08/11	L53667-2
WG117384-8	MS		CVTOC	FRESH WTR	09/08/11	09/08/11	L53667-4
WG117384-9	MB		CVTOC	BLANK WTR	09/08/11	09/08/11	MB2 110908
WG117384-10	LCS		CVTOC	BLANK WTR	09/08/11	09/08/11	LEVEL1
WG117384-11	LD		CVTOC	FRESH WTR	09/09/11	09/09/11	L54040-2
WG117384-12	MS		CVTOC	FRESH WTR	09/09/11	09/09/11	L54040-4
WG117384-13	LD		CVTOC	FRESH WTR	09/09/11	09/09/11	L54090-2
WG117384-14	MS		CVTOC	FRESH WTR	09/09/11	09/09/11	L54090-3
WG117384-15	LD		CVTOC	LEACHATE	09/09/11	09/09/11	L54060-4
WG117384-16	MB		CVTOC	BLANK WTR	09/09/11	09/09/11	MB1 110909
WG117384-17	LCS		CVTOC	BLANK WTR	09/09/11	09/09/11	LEVEL1
WG117384-18	SB		CVTOC	BLANK WTR	09/09/11	09/09/11	WG117384-16
WG117384-19	LD		CVTOC	FRESH WTR	09/09/11	09/09/11	L54043-1
WG117384-20	MS		CVTOC	FRESH WTR	09/09/11	09/09/11	L54043-4
WG117384-21	MB		CVTOC	BLANK WTR	09/12/11	09/12/11	MB1 110912
WG117384-22	LCS		CVTOC	BLANK WTR	09/12/11	09/12/11	LEVEL1
WG117384-23	SB		CVTOC	BLANK WTR	09/12/11	09/12/11	WG117384-21
WG117384-24	LD		CVTOC	FRESH WTR	09/12/11	09/12/11	L54117-2

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WG117384-25	MS		CVTOC	FRESH WTR	09/12/11	09/12/11	L54117-3
WG117384-26	MS		CVTOC	LEACHATE	09/12/11	09/12/11	L54060-3
WG117384-27	LD		CVTOC	GRND WTR	09/13/11	09/13/11	L54072-1
WG117384-28	MS		CVTOC	GRND WTR	09/13/11	09/13/11	L54065-1

WG117300 - Total Suspended Solids

Sample	Project	Project Description	List Type	Matrix	Coll. Date	Prep. Date	Anal. Date	Comments
L54038-1	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54038-2	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54038-3	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54038-4	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54038-5	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54038-6	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54038-7	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54038-8	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54038-9	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54038-10	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54038-11	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54038-12	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54039-1	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54039-2	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54039-3	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54039-4	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54039-5	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54039-6	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54039-7	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54039-8	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54040-1	421195-190	Vashon Island Surface Water	CVTSS	FRESH WTR	09/07/11	09/08/11	09/09/11	
L54040-2	421195-190	Vashon Island Surface Water	CVTSS	FRESH WTR	09/07/11	09/08/11	09/09/11	
L54040-3	421195-190	Vashon Island Surface Water	CVTSS	FRESH WTR	09/07/11	09/08/11	09/09/11	
L54040-4	421195-190	Vashon Island Surface Water	CVTSS	FRESH WTR	09/07/11	09/08/11	09/09/11	
L54043-1	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTSS	FRESH WTR	09/08/11	09/08/11	09/09/11	
L54043-3	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTSS	FRESH WTR	09/08/11	09/08/11	09/09/11	
L54043-4	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTSS	FRESH WTR	09/08/11	09/08/11	09/09/11	
L54090-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54090-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
L54090-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/06/11	09/08/11	09/09/11	
WG117300-1	MB		CVTSS	BLANK WTR		09/08/11	09/09/11	MB1 110908
WG117300-2	LCS		CVTSS	BLANK WTR		09/08/11	09/09/11	LEVEL1
WG117300-3	LD		CVTSS	FRESH WTR		09/08/11	09/09/11	L54038-6

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WG117300-4	MB		CVTSS	BLANK WTR	09/08/11	09/09/11	MB2 110908
WG117300-5	LCS		CVTSS	BLANK WTR	09/08/11	09/09/11	LEVEL1
WG117300-6	LD		CVTSS	FRESH WTR	09/08/11	09/09/11	L54040-3
WG117300-7	LD		CVTSS	FRESH WTR	09/08/11	09/09/11	L54090-2
WG117300-8	LD		CVTSS	FRESH WTR	09/08/11	09/09/11	L54043-4

WG117350 - Total Suspended Solids

Sample	Project	Project Description	List Type	Matrix	Coll. Date	Prep. Date	Anal. Date	Comments
L54062-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/08/11	09/09/11	09/12/11	
L54063-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/09/11	09/09/11	09/12/11	
L54063-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/09/11	09/09/11	09/12/11	
L54117-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/07/11	09/09/11	09/12/11	
L54117-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/07/11	09/09/11	09/12/11	
L54117-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/07/11	09/09/11	09/12/11	
L54117-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/07/11	09/09/11	09/12/11	
WG117350-1	MB		CVTSS	BLANK WTR		09/09/11	09/12/11	MB1 110909
WG117350-2	LCS		CVTSS	BLANK WTR		09/09/11	09/12/11	LEVEL1
WG117350-3	LD		CVTSS	FRESH WTR		09/09/11	09/12/11	L54117-3
WG117350-4	LD		CVTSS	GRND WTR		09/09/11	09/12/11	L54063-4

WG117427 - Total Suspended Solids

Sample	Project	Project Description	List Type	Matrix	Coll. Date	Prep. Date	Anal. Date	Comments
L54063-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/13/11	09/16/11	09/19/11	
L54065-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/12/11	09/16/11	09/19/11	
L54065-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/12/11	09/16/11	09/19/11	
L54072-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/12/11	09/16/11	09/19/11	
L54073-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/15/11	09/16/11	09/19/11	
L54073-3	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/15/11	09/16/11	09/19/11	
L54075-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/14/11	09/16/11	09/19/11	
L54125-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/12/11	09/16/11	09/19/11	
L54125-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/12/11	09/16/11	09/19/11	
L54125-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/12/11	09/16/11	09/19/11	
L54126-1	423589-320-4	CSO Basin Study	CVTSS	SEWER WTR	09/13/11	09/16/11	09/19/11	
L54126-3	423589-320-4	CSO Basin Study	CVTSS	SEWER WTR	09/13/11	09/16/11	09/19/11	
L54147-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/11	09/16/11	09/19/11	
L54147-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/11	09/16/11	09/19/11	
L54147-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/11	09/16/11	09/19/11	
L54147-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/11	09/16/11	09/19/11	
L54148-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/14/11	09/16/11	09/19/11	

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L54148-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/14/11	09/16/11	09/19/11	
L54154-2	423589-320-4	CSO Basin Study	CVTSS	SEWER WTR	09/14/11	09/16/11	09/19/11	
L54154-3	423589-320-4	CSO Basin Study	CVTSS	SEWER WTR	09/14/11	09/16/11	09/19/11	
WG117427-1	MB		CVTSS	BLANK WTR		09/16/11	09/19/11	MB1 110916
WG117427-2	LCS		CVTSS	BLANK WTR		09/16/11	09/19/11	LEVEL1
WG117427-3	LD		CVTSS	GRND WTR		09/16/11	09/19/11	L54072-1
WG117427-4	LD		CVTSS	FRESH WTR		09/16/11	09/19/11	L54125-3
WG117427-5	LD		CVTSS	SEWER WTR		09/16/11	09/19/11	L54126-3

WG117462 - Total Suspended Solids

Sample	Project	Project Description	List Type	Matrix	Coll. Date	Prep. Date	Anal. Date	Comments
L54121-1	421161	IW SURCHARGE	CVTSS	IW WTR	09/12/11	09/19/11	09/20/11	
L54122-2	421161	IW SURCHARGE	CVTSS	IW WTR	09/12/11	09/19/11	09/20/11	
L54123-1	421161	IW SURCHARGE	CVTSS	IW WTR	09/14/11	09/19/11	09/20/11	
L54127-1	421161	IW SURCHARGE	CVTSS	IW WTR	09/13/11	09/19/11	09/20/11	
L54128-1	421161	IW SURCHARGE	CVTSS	IW WTR	09/13/11	09/19/11	09/20/11	
L54129-1	421161	IW SURCHARGE	CVTSS	IW WTR	09/14/11	09/19/11	09/20/11	
L54130-1	421161	IW SURCHARGE	CVTSS	IW WTR	09/14/11	09/19/11	09/20/11	
L54131-2	421161	IW SURCHARGE	CVTSS	IW WTR	09/14/11	09/19/11	09/20/11	
L54132-1	421161	IW SURCHARGE	CVTSS	IW WTR	09/12/11	09/19/11	09/20/11	
L54149-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/15/11	09/19/11	09/20/11	
L54149-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/15/11	09/19/11	09/20/11	
L54160-4	421161	IW SURCHARGE	CVTSS	IW WTR	09/13/11	09/19/11	09/20/11	
L54160-5	421161	IW SURCHARGE	CVTSS	IW WTR	09/14/11	09/19/11	09/20/11	
WG117462-1	MB		CVTSS	BLANK WTR		09/19/11	09/20/11	MB1 110919
WG117462-2	LCS		CVTSS	BLANK WTR		09/19/11	09/20/11	LEVEL1
WG117462-3	LD		CVTSS	IW WTR		09/19/11	09/20/11	L54122-2
WG117462-4	LD		CVTSS	FRESH WTR		09/19/11	09/20/11	L54149-1

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Workgroup WG117453

Method Blank

MB:WG117453-1 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117453-2 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project:

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	10.2	102		85--115

Spike Blank

SB:WG117453-3 MB:WG117453-1 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	9.94	99		80--120

Laboratory Duplicate

LD:WG117453-4 L53667-2 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	3.38	3.18	6		0--20

Matrix Spike

MS:WG117453-5 L53667-3 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:422027

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	2.57	10	13	104		75--125

Method Blank

MB:WG117453-6 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project:

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

Matrix Spike

MS:WG117453-7 L54036-1 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	4.62	10	15.4	108		75--125

Method Blank

MB:WG117453-8 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

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Laboratory Duplicate

LD:WG117453-9 L54040-3 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	3.07	3.15	3		0--20

Matrix Spike

MS:WG117453-10 L54090-3 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	18.4	10	28.4	100		75--125

Method Blank

MB:WG117453-11 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117453-12 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	10.9	109		85--115

Laboratory Duplicate

LD:WG117453-13 L54117-2 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	4.65	4.49	3		0--20

Matrix Spike

MS:WG117453-14 L54117-4 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	6.59	10	17	105		75--125

Method Blank

MB:WG117453-15 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117453-16 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.8	108		85--115

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Method Blank

MB:WG117453-17 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117453-18 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.4	104		85--115

Spike Blank

SB:WG117453-19 MB:WG117453-17 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.2	102		80--120

Laboratory Duplicate

LD:WG117453-20 L54125-3 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	8.2	8.45	3		0--20

Matrix Spike

MS:WG117453-21 L54125-4 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	3.19	10	13.6	105		75--125

Method Blank

MB:WG117453-22 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117453-23 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	10.8	108		85--115

Spike Blank

SB:WG117453-24 MB:WG117453-22 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	11	110		80--120

LIMSView QC Report for Green River Baseflow Samples - Data Validation for Conventional

Laboratory Duplicate

LD:WG117453-25 L54125-3 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	7.74	7.86	2		0--20

Matrix Spike

MS:WG117453-26 L54125-4 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	3.1	10	13.2	101		75--125

Workgroup WG117545

Method Blank

MB:WG117545-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117545-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.7	107		85--115

Spike Blank

SB:WG117545-3 MB:WG117545-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	20	20.7	103		80--120

Laboratory Duplicate

LD:WG117545-4 L54073-5 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	16.4	15.7	5		0--20

Matrix Spike

MS:WG117545-5 L54075-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	15	10	24.5	95		75--125

Laboratory Duplicate

LD:WG117545-6 L54076-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	11.4	11.5	1		0--20

LIMSView QC Report for Green River Baseflow Samples - Data Validation for Conventional

Laboratory Duplicate

LD:WG117545-7 L54149-2 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.57	4.69	3		0--20

Matrix Spike

MS:WG117545-8 L54147-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.82	10	12.1	102		75--125

Method Blank

MB:WG117545-9 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117545-10 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.8	108		85--115

Matrix Spike

MS:WG117545-11 L54154-2 Matrix: SEWER WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	50	100	mg/L	463	10	1450	98		75--125

Spike Blank

SB:WG117545-12 MB:WG117545-9 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.3	103		80--120

Laboratory Duplicate

LD:WG117545-13 L54020-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	2.07	1.81	13		0--20

Matrix Spike

MS:WG117545-14 L54020-3 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	2.18	10	12.4	102		75--125

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Laboratory Duplicate

LD:WG117545-15 L54021-1 Matrix: SALT WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.86	1.78	4		0--20

Matrix Spike

MS:WG117545-16 L54021-3 Matrix: SALT WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	2.02	10	11.9	98		75--125

Method Blank

MB:WG117545-17 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117545-18 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	10.4	104		85--115

Spike Blank

SB:WG117545-19 MB:WG117545-17 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	10.3	103		80--120

Method Blank

MB:WG117545-20 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Duplicate

LD:WG117545-21 L54149-1 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	2.09	2.43	15		0--20

Matrix Spike

MS:WG117545-22 L54149-2 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	3.72	10	14	102		75--125

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Method Blank

MB:WG117545-23 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

Method Blank

MB:WG117545-24 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117545-25 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	10.5	105		85--115

Spike Blank

SB:WG117545-26 MB:WG117545-24 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	10.9	109		80--120

Laboratory Duplicate

LD:WG117545-27 L54020-1 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.93	1.91	1		0--20

Matrix Spike

MS:WG117545-28 L54020-3 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.95	10	12	101		75--125

Laboratory Duplicate

LD:WG117545-29 L54021-1 Matrix: SALT WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.91	1.73	10		0--20

Matrix Spike

MS:WG117545-30 L54021-3 Matrix: SALT WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.67	10	11.5	99		75--125

Laboratory Duplicate

LIMSView QC Report for Green River Baseflow Samples - Data Validation for Conventional

LD:WG117545-31 L54154-2 Matrix: SEWER WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	50	100	mg/L	463	481	4		0--20

Laboratory Duplicate

LD:WG117545-32 L54154-3 Matrix: SEWER WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	5	10	mg/L	93.8	95.3	2		0--20

Matrix Spike

MS:WG117545-33 L54154-3 Matrix: SEWER WTR Listtype:CVDOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	5	10	mg/L	93.8	10	198	104		75--125

Workgroup WG117384

Method Blank

MB:WG117384-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117384-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.5	105		85--115

Spike Blank

SB:WG117384-3 MB:WG117384-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.5	105		80--120

Laboratory Duplicate

LD:WG117384-4 L54037-3 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.76	1.78	1		0--20

Matrix Spike

MS:WG117384-5 L54054-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.81	10	11.1	103		75--125

LIMSView QC Report for Green River Baseflow Samples - Data Validation for Conventional

Laboratory Duplicate

LD:WG117384-6 L53937-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.45	1.6	10		0--20

Laboratory Duplicate

LD:WG117384-7 L53667-2 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	3.54	3.56	1		0--20

Matrix Spike

MS:WG117384-8 L53667-4 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	2.53	10	12.6	100		75--125

Method Blank

MB:WG117384-9 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117384-10 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.4	104		85--115

Laboratory Duplicate

LD:WG117384-11 L54040-2 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.31	3.92	9		0--20

Matrix Spike

MS:WG117384-12 L54040-4 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	3.35	10	12.8	95		75--125

Laboratory Duplicate

LD:WG117384-13 L54090-2 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	16.5	17	3		0--20

LIMSView QC Report for Green River Baseflow Samples - Data Validation for Conventional

Matrix Spike

MS:WG117384-14 L54090-3 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	16.8	10	26.9	101		75--125

Laboratory Duplicate

LD:WG117384-15 L54060-4 Matrix: LEACHATE Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	15	30	mg/L	572	534	7		0--20

Method Blank

MB:WG117384-16 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

Laboratory Control Samples

LCS:WG117384-17 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.7	107		85--115

Spike Blank

SB:WG117384-18 MB:WG117384-16 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.1	101		80--120

Laboratory Duplicate

LD:WG117384-19 L54043-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	6.34	6.13	3		0--20

Matrix Spike

MS:WG117384-20 L54043-4 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.99	10	13.2	82		75--125

Method Blank

MB:WG117384-21 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

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Laboratory Control Sample

LCS:WG117384-22 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.5	105		85--115

Spike Blank

SB:WG117384-23 MB:WG117384-21 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.4	104		80--120

Laboratory Duplicate

LD:WG117384-24 L54117-2 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.43	4.01	10		0--20

Matrix Spike

MS:WG117384-25 L54117-3 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	8.34	10	18.4	100		75--125

Matrix Spike

MS:WG117384-26 L54060-3 Matrix: LEACHATE Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	50	100	mg/L	1800	10	2820	102		75--125

Laboratory Duplicate

LD:WG117384-27 L54072-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	11.9	11.8	1		0--20

Matrix Spike

MS:WG117384-28 L54065-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	15	10	24.8	98		75--125

Workgroup WG117300

Method Blank

MB:WG117300-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LIMSView QC Report for Green River Baseflow Samples - Data Validation for Conventional

Laboratory Control Sample

LCS:WG117300-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	92	92		80--120

Laboratory Duplicate

LD:WG117300-3 L54038-6 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	3	3	0		0--25

Method Blank

MB:WG117300-4 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117300-5 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	97	97		80--120

Laboratory Duplicate

LD:WG117300-6 L54040-3 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	4	3.4	16		0--25

Laboratory Duplicate

LD:WG117300-7 L54090-2 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	2.6	2.6	0		0--25

Laboratory Duplicate

LD:WG117300-8 L54043-4 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1.1	2.2	mg/L	47.3	58.4	21		0--25

Workgroup WG117350

Method Blank

MB:WG117350-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LIMSView QC Report for Green River Baseflow Samples - Data Validation for Conventional

Laboratory Control Sample

LCS:WG117350-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	92	92		80--120

Laboratory Duplicate

LD:WG117350-3 L54117-3 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1.1	2.2	mg/L	3.78	3.11	19		0--25

Laboratory Duplicate

LD:WG117350-4 L54063-4 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	<MDL	<MDL			0--25

Workgroup WG117427

Method Blank

MB:WG117427-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117427-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	112	112		80--120

Laboratory Duplicate

LD:WG117427-3 L54072-1 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	23	23.6	3		0--25

Laboratory Duplicate

LD:WG117427-4 L54125-3 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	4.4	4.6	4		0--25

Laboratory Duplicate

LD:WG117427-5 L54126-3 Matrix: SEWER WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	20	40	mg/L	260	296	13		0--25

LIMSView QC Report for Green River Baseflow Samples - Data Validation for Convenctionals

Workgroup WG117462

Method Blank

MB:WG117462-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

Laboratory Control Sample

LCS:WG117462-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	115	115		80--120

Laboratory Duplicate

LD:WG117462-3 L54122-2 Matrix: IW WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	15	29	mg/L	226	150	41	*	0--25

Laboratory Duplicate

LD:WG117462-4 L54149-1 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1.1	2.2	mg/L	3.96	4.18	5		0--25

LIMSView Batch Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#1)

WG118615

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54191-1	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	11/17/11	11/17/11	11/17/11	
L54191-1	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	11/17/11	11/17/11	11/17/11	
L54191-2	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	11/17/11	11/17/11	11/17/11	
L54191-2	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	11/17/11	11/17/11	11/17/11	
L54191-3	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	11/17/11	11/17/11	11/17/11	
L54191-3	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	11/17/11	11/17/11	11/17/11	
L54191-4	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	11/17/11	11/17/11	11/17/11	
L54191-4	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	11/17/11	11/17/11	11/17/11	
L54191-5	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	11/17/11	11/17/11	11/17/11	
L54191-5	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	11/17/11	11/17/11	11/17/11	
L54191-6	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	11/17/11	11/17/11	11/17/11	
L54379-1	421185	WP INPLANT 3 Day INTENSIVE STUDY	CVDOC	BLANK WTR	11/16/11	11/17/11	11/18/11	
L54379-1	421185	WP INPLANT 3 Day INTENSIVE STUDY	CVTOC	BLANK WTR	11/16/11	11/17/11	11/17/11	
L54523-1	421195-470	Miller Creek DOC Study	CVDOC	STORM WTR	11/16/11	11/17/11	11/17/11	
L54523-2	421195-470	Miller Creek DOC Study	CVDOC	STORM WTR	11/16/11	11/17/11	11/17/11	
L54557-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	11/10/11	11/17/11	11/17/11	
L54573-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	11/16/11	11/16/11	11/16/11	
L54574-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	11/15/11	11/16/11	11/16/11	
L54574-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	11/10/11	11/16/11	11/16/11	
L54576-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	11/14/11	11/16/11	11/16/11	
L54576-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	11/14/11	11/16/11	11/16/11	
L54576-5	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	11/10/11	11/16/11	11/16/11	
L54578-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	11/14/11	11/17/11	11/17/11	
L54578-3	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	11/15/11	11/16/11	11/16/11	
L54579-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	11/15/11	11/16/11	11/16/11	
L54604-1	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	11/16/11	11/17/11	11/17/11	
L54604-2	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	11/16/11	11/17/11	11/17/11	
L54604-3	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	11/16/11	11/17/11	11/17/11	
L54604-4	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	11/16/11	11/17/11	11/17/11	
L54604-5	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	11/16/11	11/17/11	11/17/11	
L54681-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/16/11	11/18/11	11/18/11	
L54681-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/16/11	11/18/11	11/18/11	
L54681-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/16/11	11/18/11	11/18/11	
L54681-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/16/11	11/18/11	11/18/11	
L54681-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/16/11	11/18/11	11/18/11	
L54681-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/16/11	11/18/11	11/18/11	
L54681-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/16/11	11/18/11	11/18/11	
L54681-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/16/11	11/18/11	11/18/11	

LIMSView Batch Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#1)

WG118615-1	MB		CVTOC	BLANK WTR	11/16/11	11/16/11	MB1 11/16/11
WG118615-2	LCS		CVTOC	BLANK WTR	11/16/11	11/16/11	LEVEL1
WG118615-3	SB		CVTOC	BLANK WTR	11/16/11	11/16/11	WG118615-1
WG118615-4	MS		CVTOC	GRND WTR	11/16/11	11/16/11	L54573-1
WG118615-5	LD		CVTOC	FRESH WTR	11/17/11	11/17/11	L54604-2
WG118615-6	MS		CVTOC	FRESH WTR	11/17/11	11/17/11	L54604-4
WG118615-7	LCS		CVTOC	BLANK WTR	11/17/11	11/17/11	LEVEL1
WG118615-8	LD		CVTOC	GRND WTR	11/17/11	11/17/11	L54578-1
WG118615-9	MB		CVTOC	BLANK WTR	11/17/11	11/17/11	MB1 11/17/11
WG118615-10	MB		CVDOC	BLANK WTR	11/17/11	11/17/11	MB1 111117A
WG118615-11	LCS		CVDOC	BLANK WTR	11/17/11	11/17/11	LEVEL1
WG118615-12	SB		CVDOC	BLANK WTR	11/17/11	11/17/11	WG118615-10
WG118615-13	LD		CVDOC	STORM WTR	11/17/11	11/17/11	L54523-1
WG118615-14	MS		CVDOC	STORM WTR	11/17/11	11/17/11	L54523-2
WG118615-15	MB		CVDOC	BLANK WTR	11/17/11	11/17/11	MB2 111117
WG118615-16	MB		CVTOC	BLANK WTR	11/17/11	11/17/11	MB2 111117
WG118615-17	LCS		CVTOC	BLANK WTR	11/17/11	11/17/11	LEVEL1
WG118615-18	SB		CVTOC	BLANK WTR	11/17/11	11/17/11	WG118615-16
WG118615-19	LD		CVTOC	STORM WTR	11/17/11	11/17/11	L54191-2
WG118615-20	MS		CVTOC	STORM WTR	11/17/11	11/17/11	L54191-3
WG118615-21	MB		CVTOC	BLANK WTR	11/18/11	11/18/11	MB1 111118
WG118615-22	LCS		CVTOC	BLANK WTR	11/18/11	11/18/11	LEVEL1
WG118615-23	MB		CVDOC	BLANK WTR	11/18/11	11/18/11	MB1 111118
WG118615-24	LCS		CVDOC	BLANK WTR	11/18/11	11/18/11	LEVEL1

WG119562

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54686-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-5	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-6	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	01/31/12	02/02/12	02/02/12	
L54687-1	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	01/25/12	01/27/12	02/02/12	

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L54687-1	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	01/25/12	02/01/12	02/01/12	
L54687-2	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	01/25/12	01/27/12	02/01/12	
L54687-2	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	01/25/12	02/01/12	02/01/12	
L54687-3	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	01/25/12	01/27/12	02/01/12	
L54687-3	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	01/25/12	02/01/12	02/01/12	
L54924-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	01/26/12	02/01/12	02/01/12	
L54924-6	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	02/02/12	02/02/12	02/02/12	
L54928-2	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	01/26/12	02/01/12	02/01/12	
L54928-4	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	01/26/12	02/01/12	02/01/12	
L54928-6	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	01/31/12	02/01/12	02/01/12	
L54928-7	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	01/31/12	02/02/12	02/02/12	
L54928-8	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	01/31/12	02/02/12	02/02/12	
L54928-9	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	01/31/12	02/02/12	02/02/12	
L54928-10	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	01/31/12	02/02/12	02/02/12	
L54956-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	01/31/12	02/01/12	02/01/12	
L54958-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	01/30/12	02/01/12	02/01/12	
L54958-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	01/30/12	02/01/12	02/01/12	
L54958-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	02/01/12	02/02/12	02/02/12	
L54959-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	01/27/12	02/01/12	02/01/12	
L54959-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	01/27/12	02/01/12	02/01/12	
L54959-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	01/30/12	02/01/12	02/01/12	
L54960-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	01/26/12	02/01/12	02/01/12	
L54960-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	01/26/12	02/01/12	02/01/12	
L54961-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	01/27/12	02/01/12	02/01/12	
L54961-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	01/27/12	02/01/12	02/01/12	
L54961-5	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	01/27/12	02/01/12	02/01/12	
L54961-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	01/30/12	02/01/12	02/01/12	
L54963-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	02/01/12	02/02/12	02/02/12	
L54963-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	02/01/12	02/02/12	02/02/12	
L55020-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	02/02/12	02/02/12	02/02/12	
L55020-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	02/02/12	02/02/12	02/02/12	
L55020-5	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	02/02/12	02/02/12	02/02/12	
WG119562-1	MB		CVTOC	BLANK WTR		02/01/12	02/01/12	MB1 120131
WG119562-2	LCS		CVTOC	BLANK WTR		02/01/12	02/01/12	LEVEL1
WG119562-3	SB		CVTOC	BLANK WTR		02/01/12	02/01/12	WG119562-1
WG119562-4	MS		CVTOC	GRND WTR		02/01/12	02/01/12	L54956-6
WG119562-5	LD		CVTOC	FRESH WTR		02/01/12	02/01/12	L54928-4
WG119562-6	MS		CVTOC	FRESH WTR		02/01/12	02/01/12	L54928-6
WG119562-7	LD		CVTOC	STORM WTR		02/01/12	02/01/12	L54687-1
WG119562-8	MS		CVTOC	STORM WTR		02/01/12	02/01/12	L54687-3
WG119562-9	LD		CVTOC	GRND WTR		02/01/12	02/01/12	L54959-5

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WG119562-10	MB		CVDOC	BLANK WTR	01/27/12	02/01/12	MB1 120127
WG119562-11	LCS		CVDOC	BLANK WTR	02/01/12	02/01/12	LEVEL1
WG119562-12	SB		CVDOC	BLANK WTR	01/27/12	02/01/12	WG119562-10
WG119562-13	MS		CVDOC	STORM WTR	01/27/12	02/01/12	L54687-3
WG119562-14	LCS		CVDOC	BLANK WTR	02/02/12	02/02/12	LEVEL1
WG119562-15	LD		CVDOC	STORM WTR	01/27/12	02/02/12	L54687-1
WG119562-16	MB		CVDOC	BLANK WTR	02/02/12	02/02/12	MB1 120202
WG119562-17	MB		CVTOC	BLANK WTR	02/02/12	02/02/12	MB1 120202
WG119562-18	LCS		CVTOC	BLANK WTR	02/02/12	02/02/12	LEVEL1
WG119562-19	MB		CVDOC	BLANK WTR	02/02/12	02/02/12	MB2 120202

WG119964

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54864-3	421422-CHGW-OS	SWD-CHGW-OS Cedar Hills Groundwater Off-Site	CVTOC	GRND WTR	02/29/12	03/01/12	03/01/12	
L55011-1	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	02/29/12	02/29/12	03/01/12	
L55011-1	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	02/29/12	03/01/12	03/01/12	
L55011-2	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	02/29/12	02/29/12	03/01/12	
L55011-2	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	02/29/12	03/01/12	03/01/12	
L55011-3	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	02/29/12	02/29/12	03/01/12	
L55011-3	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	02/29/12	03/01/12	03/01/12	
L55034-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	02/27/12	02/28/12	02/28/12	
L55035-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	02/27/12	02/28/12	02/28/12	
L55035-3	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	02/27/12	02/28/12	02/28/12	
L55055-1	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	02/28/12	02/28/12	02/28/12	
L55057-4	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	02/29/12	03/01/12	03/01/12	
L55061-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	02/27/12	02/28/12	02/28/12	
L55062-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	02/24/12	02/28/12	02/28/12	
L55062-3	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	02/27/12	02/28/12	02/28/12	
L55062-4	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	02/27/12	02/28/12	02/28/12	
L55077-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	02/24/12	02/25/12	02/29/12	
L55077-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	02/24/12	02/28/12	02/28/12	
L55077-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	02/24/12	02/25/12	02/29/12	
L55077-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	02/24/12	02/28/12	02/28/12	
L55077-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	02/24/12	02/25/12	02/29/12	
L55077-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	02/24/12	02/29/12	02/29/12	
L55077-6	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	02/24/12	02/25/12	02/29/12	
L55077-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	02/24/12	02/29/12	02/29/12	
L55175-2	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	02/24/12	02/25/12	02/28/12	
L55175-2	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	02/24/12	02/29/12	02/29/12	
L55175-3	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	02/24/12	02/25/12	02/28/12	

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L55175-3	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	02/24/12	02/29/12	02/29/12	
L55175-6	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	02/24/12	02/25/12	02/28/12	
L55175-6	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	02/24/12	02/29/12	02/29/12	
WG119964-1	MB		CVTOC	BLANK WTR		02/28/12	02/28/12	MB1 120228
WG119964-2	LCS		CVTOC	BLANK WTR		02/28/12	02/28/12	LEVEL1
WG119964-3	SB		CVTOC	BLANK WTR		02/28/12	02/28/12	WG119964-1
WG119964-4	LD		CVTOC	STORM WTR		02/28/12	02/28/12	L55077-1
WG119964-5	MS		CVTOC	STORM WTR		02/28/12	02/28/12	L55077-2
WG119964-6	LD		CVTOC	GRND WTR		02/28/12	02/28/12	L55035-1
WG119964-7	MS		CVTOC	GRND WTR		02/28/12	02/28/12	L55062-3
WG119964-8	MB		CVDOC	BLANK WTR		02/25/12	02/28/12	MB1 120225
WG119964-9	LCS		CVDOC	BLANK WTR		02/28/12	02/28/12	LEVEL1
WG119964-10	SB		CVDOC	BLANK WTR		02/25/12	02/28/12	WG119964-8
WG119964-11	MB		CVDOC	BLANK WTR		02/25/12	02/28/12	MB2 120225
WG119964-12	LD		CVDOC	STORM WTR		02/25/12	02/29/12	L55077-1
WG119964-13	MS		CVDOC	STORM WTR		02/25/12	02/29/12	L55077-2
WG119964-14	MB		CVTOC	BLANK WTR		02/29/12	02/29/12	MB1 120229
WG119964-15	LCS		CVTOC	BLANK WTR		02/29/12	02/29/12	LEVEL1
WG119964-16	MB		CVTOC	BLANK WTR		03/01/12	03/01/12	MB1 120301
WG119964-17	LCS		CVTOC	BLANK WTR		03/01/12	03/01/12	LEVEL1
WG119964-18	MB		CVDOC	BLANK WTR		02/29/12	03/01/12	MB1 120229
WG119964-19	LCS		CVDOC	BLANK WTR		03/01/12	03/01/12	LEVEL1

WG120092

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55035-4	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	03/01/12	03/07/12	03/07/12	
L55065-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	03/05/12	03/07/12	03/07/12	
L55065-3	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	03/05/12	03/07/12	03/07/12	
L55065-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/06/12	03/07/12	03/07/12	
L55065-5	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	03/02/12	03/07/12	03/07/12	
L55139-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	03/02/12	03/07/12	03/07/12	
L55139-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	03/02/12	03/07/12	03/07/12	
L55177-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/05/12	03/07/12	03/12/12	
L55177-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/05/12	03/07/12	03/07/12	
L55177-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/05/12	03/07/12	03/12/12	
L55177-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/05/12	03/07/12	03/07/12	
L55177-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/05/12	03/07/12	03/12/12	
L55177-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/05/12	03/13/12	03/13/12	
L55177-5	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/05/12	03/07/12	03/12/12	
L55177-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/05/12	03/08/12	03/08/12	

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L55177-6	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/05/12	03/07/12	03/12/12	
L55177-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/05/12	03/08/12	03/08/12	
L55186-1	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	02/29/12	03/02/12	03/12/12	
L55186-1	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	02/29/12	03/13/12	03/13/12	
L55186-2	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	02/29/12	03/02/12	03/12/12	
L55186-2	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	02/29/12	03/13/12	03/13/12	
L55186-3	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	02/29/12	03/02/12	03/12/12	
L55186-3	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	02/29/12	03/07/12	03/07/12	
L55198-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/06/12	03/07/12	03/07/12	
L55198-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/06/12	03/07/12	03/07/12	
L55198-5	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/06/12	03/07/12	03/07/12	
L55205-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	03/01/12	03/07/12	03/07/12	
L55205-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	03/01/12	03/07/12	03/07/12	
L55205-4	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	03/01/12	03/07/12	03/07/12	
L55210-1	421195-190	Vashon Island Surface Water	CVDOC	FRESH WTR	03/06/12	03/06/12	03/12/12	
L55210-1	421195-190	Vashon Island Surface Water	CVTOC	FRESH WTR	03/06/12	03/08/12	03/08/12	
L55210-2	421195-190	Vashon Island Surface Water	CVDOC	FRESH WTR	03/06/12	03/06/12	03/12/12	
L55210-2	421195-190	Vashon Island Surface Water	CVTOC	FRESH WTR	03/06/12	03/08/12	03/08/12	
L55210-3	421195-190	Vashon Island Surface Water	CVDOC	FRESH WTR	03/06/12	03/06/12	03/13/12	
L55210-3	421195-190	Vashon Island Surface Water	CVTOC	FRESH WTR	03/06/12	03/08/12	03/08/12	
L55210-4	421195-190	Vashon Island Surface Water	CVDOC	FRESH WTR	03/06/12	03/06/12	03/13/12	
L55210-4	421195-190	Vashon Island Surface Water	CVTOC	FRESH WTR	03/06/12	03/08/12	03/08/12	
L55214-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	03/02/12	03/07/12	03/07/12	
L55225-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	03/05/12	03/07/12	03/07/12	
L55225-3	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	03/05/12	03/07/12	03/07/12	
L55245-1	421422-CHSW-A5-TD	SWD-CHSW - A5 TD Cedar Hills Surface Area 5 Top Deck	CVTOC	FRESH WTR	03/05/12	03/07/12	03/07/12	
WG120092-1	MB		CVTOC	BLANK WTR		03/07/12	03/07/12	MB1 120307
WG120092-2	LCS		CVTOC	BLANK WTR		03/07/12	03/07/12	LEVEL1
WG120092-3	SB		CVTOC	BLANK WTR		03/07/12	03/07/12	WG120092-1
WG120092-4	LD		CVTOC	GRND WTR		03/07/12	03/07/12	L55139-1
WG120092-5	MS		CVTOC	GRND WTR		03/07/12	03/07/12	L55214-1
WG120092-6	MS		CVTOC	STORM WTR		03/07/12	03/07/12	L55186-3
WG120092-7	MB		CVTOC	BLANK WTR		03/07/12	03/07/12	MB2 120307
WG120092-8	LCS		CVTOC	BLANK WTR		03/07/12	03/07/12	LEVEL1
WG120092-9	LD		CVTOC	FRESH WTR		03/08/12	03/08/12	L55210-2
WG120092-10	MS		CVTOC	FRESH WTR		03/08/12	03/08/12	L55210-4
WG120092-11	MB		CVDOC	BLANK WTR		03/02/12	03/12/12	MB1 120302
WG120092-12	LCS		CVDOC	BLANK WTR		03/12/12	03/12/12	LEVEL1
WG120092-13	MB		CVDOC	BLANK WTR		03/07/12	03/12/12	MB1 120307
WG120092-14	SB		CVDOC	BLANK WTR		03/07/12	03/12/12	WG120092-13
WG120092-15	LD		CVDOC	STORM WTR		03/07/12	03/12/12	L55177-1

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WG120092-16	MS		CVDOC	STORM WTR	03/07/12	03/12/12	L55177-2
WG120092-17	MB		CVDOC	BLANK WTR	03/06/12	03/12/12	MB1 120309
WG120092-18	LD		CVDOC	FRESH WTR	03/06/12	03/13/12	L55210-2
WG120092-19	MS		CVDOC	FRESH WTR	03/06/12	03/13/12	L55210-4
WG120092-20	MB		CVTOC	BLANK WTR	03/13/12	03/13/12	MB1 120312
WG120092-21	LCS		CVTOC	BLANK WTR	03/13/12	03/13/12	LEVEL1
WG120092-22	LD		CVTOC	STORM WTR	03/13/12	03/13/12	L55186-1

WG120155

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54928-1	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55060-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	03/14/12	03/14/12	03/14/12	
L55060-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/08/12	03/13/12	03/13/12	
L55060-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/08/12	03/13/12	03/13/12	
L55149-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	03/13/12	03/14/12	03/14/12	
L55149-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	03/13/12	03/14/12	03/14/12	
L55198-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/08/12	03/14/12	03/14/12	
L55216-1	421422-VALS-M	SWD-VALS-M Vashon Leachate Monthly	CVTOC	LEACHATE	03/07/12	03/14/12	03/14/12	
L55217-1	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	03/07/12	03/14/12	03/14/12	
L55217-3	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	03/07/12	03/14/12	03/14/12	
L55217-4	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	03/07/12	03/14/12	03/14/12	
L55217-5	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	03/07/12	03/14/12	03/14/12	
L55219-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/08/12	03/13/12	03/13/12	
L55219-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/08/12	03/13/12	03/13/12	
L55219-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/08/12	03/14/12	03/14/12	
L55220-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/09/12	03/14/12	03/14/12	
L55220-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/09/12	03/14/12	03/14/12	
L55220-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/09/12	03/14/12	03/14/12	
L55223-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/12/12	03/14/12	03/14/12	
L55224-1	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55224-2	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55224-3	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55224-4	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55224-5	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55224-6	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55231-1	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	03/12/12	03/12/12	03/13/12	
L55231-1	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	03/12/12	03/15/12	03/15/12	
L55231-2	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	03/12/12	03/12/12	03/13/12	
L55231-2	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	03/12/12	03/15/12	03/15/12	
L55231-5	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	03/12/12	03/12/12	03/13/12	

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L55231-5	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	03/12/12	03/15/12	03/15/12
L55231-6	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	03/12/12	03/12/12	03/13/12
L55231-6	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	03/12/12	03/15/12	03/15/12
L55231-7	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	03/12/12	03/13/12	03/13/12
L55231-7	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	03/12/12	03/15/12	03/15/12
L55235-1	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/13/12	03/14/12	03/14/12
L55235-2	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/13/12	03/14/12	03/14/12
L55235-3	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/13/12	03/14/12	03/14/12
L55235-4	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/13/12	03/14/12	03/14/12
L55235-5	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/13/12	03/14/12	03/14/12
L55235-6	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/13/12	03/14/12	03/14/12
L55235-7	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/14/12	03/14/12	03/14/12
L55235-9	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	03/14/12	03/14/12	03/14/12
L55236-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	03/14/12	03/14/12	03/14/12
L55239-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	03/14/12	03/14/12	03/14/12
L55239-3	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	03/14/12	03/14/12	03/14/12
L55239-4	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	03/14/12	03/14/12	03/14/12
L55283-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/10/12	03/12/12	03/13/12
L55283-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/10/12	03/15/12	03/15/12
L55283-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/10/12	03/12/12	03/13/12
L55283-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/10/12	03/15/12	03/15/12
L55283-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/10/12	03/12/12	03/13/12
L55283-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/10/12	03/15/12	03/15/12
L55283-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/10/12	03/12/12	03/13/12
L55283-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/10/12	03/15/12	03/15/12
L55283-6	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/10/12	03/12/12	03/13/12
L55283-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/10/12	03/15/12	03/15/12
WG120155-1	MB		CVDOC	BLANK WTR	03/12/12	03/13/12	MB1 120312
WG120155-2	LCS		CVDOC	BLANK WTR	03/13/12	03/13/12	LEVEL1
WG120155-3	LD		CVDOC	STORM WTR	03/12/12	03/13/12	L55283-4
WG120155-4	MB		CVDOC	BLANK WTR	03/12/12	03/13/12	MB2 120312
WG120155-5	SB		CVDOC	BLANK WTR	03/12/12	03/13/12	WG120155-4
WG120155-6	MS		CVDOC	STORM WTR	03/12/12	03/13/12	L55231-5
WG120155-7	MB		CVDOC	BLANK WTR	03/13/12	03/13/12	MB1 120313
WG120155-8	MB		CVTOC	BLANK WTR	03/13/12	03/13/12	MB1 120313
WG120155-9	LCS		CVTOC	BLANK WTR	03/13/12	03/13/12	LEVEL1
WG120155-10	SB		CVTOC	BLANK WTR	03/13/12	03/13/12	WG120155-8
WG120155-11	LD		CVTOC	FRESH WTR	03/13/12	03/13/12	L55224-2
WG120155-12	MS		CVTOC	FRESH WTR	03/13/12	03/13/12	L55224-5
WG120155-13	LD		CVTOC	GRND WTR	03/13/12	03/13/12	L55219-1
WG120155-14	MS		CVTOC	GRND WTR	03/14/12	03/14/12	L55219-4

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WG120155-15	MB	CVTOC	BLANK WTR	03/14/12	03/14/12	MB2 120313
WG120155-16	LCS	CVTOC	BLANK WTR	03/14/12	03/14/12	LEVEL1
WG120155-17	MB	CVTOC	BLANK WTR	03/14/12	03/14/12	MB1 120314
WG120155-18	LCS	CVTOC	BLANK WTR	03/14/12	03/14/12	LEVEL1
WG120155-19	SB	CVTOC	BLANK WTR	03/14/12	03/14/12	WG120155-17
WG120155-20	LD	CVTOC	GRND WTR	03/14/12	03/14/12	L55239-3
WG120155-21	MS	CVTOC	GRND WTR	03/14/12	03/14/12	L55239-4
WG120155-22	LD	CVTOC	LEACHATE	03/14/12	03/14/12	L55217-1
WG120155-23	MS	CVTOC	LEACHATE	03/14/12	03/14/12	L55217-3
WG120155-24	MB	CVTOC	BLANK WTR	03/15/12	03/15/12	MB2 120314
WG120155-25	LCS	CVTOC	BLANK WTR	03/15/12	03/15/12	LEVEL1
WG120155-26	LD	CVTOC	STORM WTR	03/15/12	03/15/12	L55231-5
WG120155-27	MS	CVTOC	STORM WTR	03/15/12	03/15/12	L55283-1

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WG118615

MB:WG118615-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG118615-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.4	104		85--115

SB:WG118615-3 MB:WG118615-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	9.71	97		80--120

MS:WG118615-4 L54573-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CFGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.64	10	10.8	102		75--125

LD:WG118615-5 L54604-2 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHSW-M Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.43	4.24	4		0--20

MS:WG118615-6 L54604-4 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHSW-M Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	5.79	10	15.5	97		75--125

LCS:WG118615-7 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.6	106		85--115

LD:WG118615-8 L54578-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CFGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.92	0.89			0--20

MB:WG118615-9 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

MB:WG118615-10 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbor	0.5	1	mg/L	<MDL	

LCS:WG118615-11 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	10	10.2	102		85--115

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SB:WG118615-12 MB:WG118615-10 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	9.97	100		80--120

LD:WG118615-13 L54523-1 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:421195-470 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	6.27	6.64	6		0--20

MS:WG118615-14 L54523-2 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:421195-470 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	6.66	10	16.3	97		75--125

MB:WG118615-15 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

MB:WG118615-16 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG118615-17 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.2	102		85--115

SB:WG118615-18 MB:WG118615-16 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	9.94	99		80--120

LD:WG118615-19 L54191-2 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:422027 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	7.75	7.88	2		0--20

MS:WG118615-20 L54191-3 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:422027 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	6.51	10	16.2	97		75--125

MB:WG118615-21 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG118615-22 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.8	108		85--115

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MB:WG118615-23 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG118615-24 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	10.4	104		85--115

WG119562

MB:WG119562-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG119562-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.84	98		85--115

SB:WG119562-3 MB:WG119562-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	9.24	92		80--120

MS:WG119562-4 L54956-6 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	5.97	10	16.1	102		75--125

LD:WG119562-5 L54928-4 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHSW-Q Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	3.6	3.53	2		0--20

MS:WG119562-6 L54928-6 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHSW-Q Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.13	10	14.3	102		75--125

LD:WG119562-7 L54687-1 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	2.5	5	mg/L	68.2	65.3	4		0--20

MS:WG119562-8 L54687-3 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	2.5	5	mg/L	17	10	78.3	123		75--125

LD:WG119562-9 L54959-5 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.22	1.01	19		0--20

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#1)

MB:WG119562-10 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG119562-11 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	9.97	100		85--115

SB:WG119562-12 MB:WG119562-10 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	10.3	103		80--120

MS:WG119562-13 L54687-3 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	7.05	10	16.8	97		75--125

LCS:WG119562-14 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	9.85	99		85--115

LD:WG119562-15 L54687-1 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	1	2	mg/L	47.9	47.3	1		0--20

MB:WG119562-16 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

MB:WG119562-17 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG119562-18 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.91	99		85--115

MB:WG119562-19 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

WG119964

MB:WG119964-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#1)

LCS:WG119964-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.93	99		85--115

SB:WG119964-3 MB:WG119964-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.1	101		80--120

LD:WG119964-4 L55077-1 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	7.8	8.06	3		0--20

MS:WG119964-5 L55077-2 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	5.19	10	15.3	101		75--125

LD:WG119964-6 L55035-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CFGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.1	1	10		0--20

MS:WG119964-7 L55062-3 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-HOGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.76	10	11.2	104		75--125

MB:WG119964-8 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbor	0.5	1	mg/L	<MDL	

LCS:WG119964-9 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	10	9.54	95		85--115

SB:WG119964-10 MB:WG119964-8 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	<MDL	10	10.1	101		80--120

MB:WG119964-11 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbor	0.5	1	mg/L	<MDL	

LD:WG119964-12 L55077-1 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	6.89	6.77	2		0--20

(Matrix Spike)

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#1)

Parameter Dissolved Organic Carbon	MDL 0.5	RDL 1	Units mg/L	SAMP Value 4.23	TrueValue 10	MS Value 14.4	% Rec. 102	Qual	LabLimit 75--125
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MB:WG119964-14 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
(Method Blank)

Parameter Total Organic Carbon	MDL 0.5	RDL 1	Units mg/L	MB Value <MDL	Qual
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LCS:WG119964-15 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
(Lab Control Sample)

Parameter Total Organic Carbon	MDL 0.5	RDL 1	Units mg/L	TrueValue 10	LCS Value 9.21	% Rec. 92	Qual	LabLimit 85--115
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MB:WG119964-16 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
(Method Blank)

Parameter Total Organic Carbon	MDL 0.5	RDL 1	Units mg/L	MB Value <MDL	Qual
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LCS:WG119964-17 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
(Lab Control Sample)

Parameter Total Organic Carbon	MDL 0.5	RDL 1	Units mg/L	TrueValue 10	LCS Value 10.2	% Rec. 102	Qual	LabLimit 85--115
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MB:WG119964-18 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
(Method Blank)

Parameter Dissolved Organic Carbon	MDL 0.5	RDL 1	Units mg/L	MB Value <MDL	Qual
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LCS:WG119964-19 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
(Lab Control Sample)

Parameter Dissolved Organic Carbon	MDL 0.5	RDL 1	Units mg/L	TrueValue 10	LCS Value 10.4	% Rec. 104	Qual	LabLimit 85--115
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WG120092

MB:WG120092-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
(Method Blank)

Parameter Total Organic Carbon	MDL 0.5	RDL 1	Units mg/L	MB Value <MDL	Qual
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LCS:WG120092-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
(Lab Control Sample)

Parameter Total Organic Carbon	MDL 0.5	RDL 1	Units mg/L	TrueValue 10	LCS Value 9.75	% Rec. 97	Qual	LabLimit 85--115
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SB:WG120092-3 MB:WG120092-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter Total Organic Carbon	MDL 0.5	RDL 1	Units mg/L	MB Value <MDL	TrueValue 10	SB Value 10.2	% Rec. 102	Qual	LabLimit 80--120
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LD:WG120092-4 L55139-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-VAGW Pkey:STD
(Lab Duplicate)

Parameter Total Organic Carbon	MDL 0.5	RDL 1	Units mg/L	SAMP Value 2.73	LD Value 2.84	RPD 4	Qual	LabLimit 0--20
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LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#1)

MS:WG120092-5 L55214-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CFGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.89	10	11.3	104		75--125

MS:WG120092-6 L55186-3 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	1	2	mg/L	28.3	10	52.6	122		75--125

MB:WG120092-7 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120092-8 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.5	105		85--115

LD:WG120092-9 L55210-2 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421195-190 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	5.56	5.82	5		0--20

MS:WG120092-10 L55210-4 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421195-190 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	6.77	10	14.8	81		75--125

MB:WG120092-11 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbor	0.5	1	mg/L	<MDL	

LCS:WG120092-12 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	10	10	100		85--115

MB:WG120092-13 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbor	0.5	1	mg/L	<MDL	

SB:WG120092-14 MB:WG120092-13 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	<MDL	10	10.3	103		80--120

LD:WG120092-15 L55177-1 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	5.61	5.56	1		0--20

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#1)

MS:WG120092-16 L55177-2 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	4.17	10	14.5	104		75--125

MB:WG120092-17 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbor	0.5	1	mg/L	<MDL	

LD:WG120092-18 L55210-2 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:421195-190 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	4.55	4.66	2		0--20

MS:WG120092-19 L55210-4 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:421195-190 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	4.02	10	14.8	108		75--125

MB:WG120092-20 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120092-21 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.28	93		85--115

LD:WG120092-22 L55186-1 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	15	30	mg/L	503	539	7		0--20

WG120155

MB:WG120155-1 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbor	0.5	1	mg/L	<MDL	

LCS:WG120155-2 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	10	9.73	97		85--115

LD:WG120155-3 L55283-4 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbor	0.5	1	mg/L	1.54	1.44	6		0--20

MB:WG120155-4 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbor	0.5	1	mg/L	<MDL	

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SB:WG120155-5 MB:WG120155-4 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	10.3	103		80--120

MS:WG120155-6 L55231-5 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:422027 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	5.4	10	15.7	103		75--125

MB:WG120155-7 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

MB:WG120155-8 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120155-9 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.95	100		85--115

SB:WG120155-10 MB:WG120155-8 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	9.54	95		80--120

LD:WG120155-11 L55224-2 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHSW-M Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	5.59	5.54	1		0--20

MS:WG120155-12 L55224-5 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHSW-M Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	3.97	10	13.8	98		75--125

LD:WG120155-13 L55219-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-DUGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.91	0.9			0--20

MS:WG120155-14 L55219-4 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-DUGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.36	10	11.5	101		75--125

MB:WG120155-15 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#1)

LCS:WG120155-16 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.82	98		85--115

MB:WG120155-17 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120155-18 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.84	98		85--115

SB:WG120155-19 MB:WG120155-17 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	9.5	95		80--120

LD:WG120155-20 L55239-3 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-HTGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	18.3	16.2	12		0--20

MS:WG120155-21 L55239-4 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-HTGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	12.1	10	23	109		75--125

LD:WG120155-22 L55217-1 Matrix: LEACHATE Listtype:CVTOC Method:SM5310-B Project:421422-CHLS-M Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	18	35	mg/L	262	263	0		0--20

MS:WG120155-23 L55217-3 Matrix: LEACHATE Listtype:CVTOC Method:SM5310-B Project:421422-CHLS-M Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	5	10	mg/L	83.2	10	181	98		75--125

MB:WG120155-24 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120155-25 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.03	90		85--115

LD:WG120155-26 L55231-5 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:422027 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	9	9.44	5		0--20

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MS:WG120155-27 L55283-1 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.69	10	14.2	95		75--125

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WG120382

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55043-1	421422-CFSW	SWD-CFSW Cedar Falls Surface Water Quarterly	CVTOC	FRESH WTR	03/27/12	03/28/12	03/28/12	
L55043-3	421422-CFSW	SWD-CFSW Cedar Falls Surface Water Quarterly	CVTOC	FRESH WTR	03/27/12	03/28/12	03/28/12	
L55154-1	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	03/26/12	03/28/12	03/28/12	
L55154-1	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	03/26/12	03/28/12	03/28/12	
L55154-2	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	03/26/12	03/28/12	03/28/12	
L55154-2	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	03/26/12	03/28/12	03/28/12	
L55154-3	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	03/26/12	03/28/12	03/28/12	
L55154-3	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	03/26/12	03/28/12	03/28/12	
L55194-1	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	FRESH WTR	03/19/12	03/20/12	03/28/12	
L55194-2	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	FRESH WTR	03/19/12	03/20/12	03/28/12	
L55194-3	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	FRESH WTR	03/19/12	03/20/12	03/27/12	
L55195-1	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	SALT WTR	03/19/12	03/20/12	03/27/12	
L55195-2	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	SALT WTR	03/19/12	03/20/12	03/27/12	
L55195-3	423589-030-1	LDWG-Water Column PCB Analysis	CVDOC	SALT WTR	03/19/12	03/20/12	03/27/12	
L55240-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/28/12	03/29/12	03/29/12	
L55274-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/23/12	03/28/12	03/28/12	
L55274-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/22/12	03/28/12	03/28/12	
L55277-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/26/12	03/28/12	03/28/12	
L55277-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/28/12	03/29/12	03/29/12	
L55277-4	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/27/12	03/28/12	03/28/12	
L55278-1	421422-DUSW	SWD-DUSW Duvall Surface Water Quarterly	CVTOC	FRESH WTR	03/28/12	03/29/12	03/29/12	
L55284-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/20/12	03/22/12	03/27/12	
L55284-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/20/12	03/22/12	03/27/12	
L55284-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/20/12	03/22/12	03/27/12	
L55284-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/20/12	03/22/12	03/27/12	
L55284-5	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/20/12	03/22/12	03/28/12	
L55284-6	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	03/20/12	03/22/12	03/28/12	
L55309-1	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	03/14/12	03/15/12	03/27/12	
L55317-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	03/22/12	03/28/12	03/28/12	
L55358-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	03/22/12	03/28/12	03/28/12	
L55358-2	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	03/22/12	03/28/12	03/28/12	
L55362-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/26/12	03/28/12	03/28/12	
WG120382-1	MB		CVDOC	BLANK WTR	03/20/12	03/27/12	MB1 120320	
WG120382-2	LCS		CVDOC	BLANK WTR	03/27/12	03/27/12	LEVEL1	
WG120382-3	SB		CVDOC	BLANK WTR	03/20/12	03/27/12	WG120382-1	
WG120382-4	LD		CVDOC	SALT WTR	03/20/12	03/27/12	L55195-3	
WG120382-5	MB		CVDOC	BLANK WTR	03/15/12	03/27/12	MB1 120315	
WG120382-6	MB		CVDOC	BLANK WTR	03/22/12	03/27/12	MB1 120322	

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WG120382-7	LD		CVDOC	STORM WTR	03/22/12	03/27/12	L55284-2
WG120382-8	MS		CVDOC	STORM WTR	03/22/12	03/28/12	L55284-4
WG120382-9	MB		CVTOC	BLANK WTR	03/28/12	03/28/12	MB1 120327
WG120382-10	LCS		CVTOC	BLANK WTR	03/28/12	03/28/12	LEVEL1
WG120382-11	SB		CVTOC	BLANK WTR	03/28/12	03/28/12	WG120382-9
WG120382-12	MS		CVTOC	FRESH WTR	03/28/12	03/28/12	L55043-3
WG120382-13	LD		CVTOC	GRND WTR	03/28/12	03/28/12	L55274-1
WG120382-14	MS		CVTOC	GRND WTR	03/28/12	03/28/12	L55274-3
WG120382-15	MB		CVTOC	BLANK WTR	03/28/12	03/28/12	MB1 120328
WG120382-16	LCS		CVTOC	BLANK WTR	03/28/12	03/28/12	LEVEL1
WG120382-17	SB		CVTOC	BLANK WTR	03/28/12	03/28/12	WG120382-15
WG120382-18	LD		CVTOC	SEWER WTR	03/28/12	03/28/12	L55154-1
WG120382-19	MS		CVTOC	SEWER WTR	03/28/12	03/28/12	L55154-3
WG120382-20	MB		CVDOC	BLANK WTR	03/28/12	03/28/12	MB1 120328
WG120382-21	LCS		CVDOC	BLANK WTR	03/28/12	03/28/12	LEVEL1
WG120382-22	SB		CVDOC	BLANK WTR	03/28/12	03/28/12	WG120382-20
WG120382-23	LD		CVDOC	SEWER WTR	03/28/12	03/28/12	L55154-1
WG120382-24	MS		CVDOC	SEWER WTR	03/28/12	03/28/12	L55154-3
WG120382-25	MS		CVDOC	FRESH WTR	03/20/12	03/28/12	L55194-1
WG120382-26	LD		CVTOC	FRESH WTR	03/28/12	03/28/12	L55043-1
WG120382-27	MB		CVTOC	BLANK WTR	03/29/12	03/29/12	MB1 120329
WG120382-28	LCS		CVTOC	BLANK WTR	03/29/12	03/29/12	LEVEL1

WG120560

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55066-1	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTOC	FRESH WTR	03/29/12	04/03/12	04/03/12	
L55185-1	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	03/27/12	03/28/12	04/05/12	
L55185-1	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	03/27/12	04/04/12	04/04/12	
L55185-2	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	03/27/12	03/28/12	04/05/12	
L55185-2	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	03/27/12	04/04/12	04/04/12	
L55185-3	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	03/27/12	03/28/12	04/06/12	
L55185-3	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	03/27/12	04/04/12	04/04/12	
L55233-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	03/30/12	04/03/12	04/03/12	
L55233-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	03/29/12	04/03/12	04/03/12	
L55233-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	03/29/12	04/03/12	04/03/12	
L55233-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	03/29/12	04/03/12	04/03/12	
L55268-1	421422-CHGW-NP	SWD-CHGW-NP Cedar Hills Groundwater Non-Potable	CVTOC	GRND WTR	03/30/12	04/03/12	04/03/12	
L55270-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/03/12	04/03/12	04/03/12	
L55270-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/03/12	04/04/12	04/04/12	
L55285-2	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	03/28/12	03/30/12	04/05/12	

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L55285-2	423589-320-4	CSO Basin Study		CVTOC	STORM WTR	03/28/12	04/03/12	04/03/12
L55285-3	423589-320-4	CSO Basin Study		CVDOC	STORM WTR	03/28/12	03/30/12	04/05/12
L55285-3	423589-320-4	CSO Basin Study		CVTOC	STORM WTR	03/28/12	04/03/12	04/03/12
L55356-3	421422-VASW-2	SWD-VASW-2 Vashon Surface Water Quarterly		CVTOC	FRESH WTR	03/29/12	04/03/12	04/03/12
L55356-6	421422-VASW-2	SWD-VASW-2 Vashon Surface Water Quarterly		CVTOC	FRESH WTR	03/29/12	04/03/12	04/03/12
L55356-7	421422-VASW-2	SWD-VASW-2 Vashon Surface Water Quarterly		CVTOC	FRESH WTR	03/29/12	04/03/12	04/03/12
L55381-1	421195-190	Vashon Island Surface Water		CVDOC	FRESH WTR	04/03/12	04/04/12	04/05/12
L55381-1	421195-190	Vashon Island Surface Water		CVTOC	FRESH WTR	04/03/12	04/04/12	04/04/12
L55381-2	421195-190	Vashon Island Surface Water		CVDOC	FRESH WTR	04/03/12	04/04/12	04/05/12
L55381-2	421195-190	Vashon Island Surface Water		CVTOC	FRESH WTR	04/03/12	04/04/12	04/04/12
L55381-3	421195-190	Vashon Island Surface Water		CVDOC	FRESH WTR	04/03/12	04/04/12	04/05/12
L55381-3	421195-190	Vashon Island Surface Water		CVTOC	FRESH WTR	04/03/12	04/04/12	04/04/12
L55381-4	421195-190	Vashon Island Surface Water		CVDOC	FRESH WTR	04/03/12	04/04/12	04/05/12
L55381-4	421195-190	Vashon Island Surface Water		CVTOC	FRESH WTR	04/03/12	04/04/12	04/04/12
L55384-1	423589-330-4	Green Rvr PCB/PAH Loading		CVDOC	STORM WTR	03/29/12	03/30/12	04/05/12
L55384-1	423589-330-4	Green Rvr PCB/PAH Loading		CVTOC	STORM WTR	03/29/12	04/03/12	04/03/12
L55384-2	423589-330-4	Green Rvr PCB/PAH Loading		CVDOC	STORM WTR	03/29/12	03/30/12	04/05/12
L55384-2	423589-330-4	Green Rvr PCB/PAH Loading		CVTOC	STORM WTR	03/29/12	04/03/12	04/03/12
L55384-3	423589-330-4	Green Rvr PCB/PAH Loading		CVDOC	STORM WTR	03/29/12	03/30/12	04/05/12
L55384-3	423589-330-4	Green Rvr PCB/PAH Loading		CVTOC	STORM WTR	03/29/12	04/03/12	04/03/12
L55384-4	423589-330-4	Green Rvr PCB/PAH Loading		CVDOC	STORM WTR	03/29/12	03/30/12	04/05/12
L55384-4	423589-330-4	Green Rvr PCB/PAH Loading		CVTOC	STORM WTR	03/29/12	04/03/12	04/03/12
L55391-1	422027	Lab Lake Wash PBT-EPA Grant		CVDOC	STORM WTR	03/29/12	03/30/12	04/05/12
L55391-1	422027	Lab Lake Wash PBT-EPA Grant		CVTOC	STORM WTR	03/29/12	04/04/12	04/04/12
L55391-2	422027	Lab Lake Wash PBT-EPA Grant		CVDOC	STORM WTR	03/30/12	03/31/12	04/05/12
L55391-2	422027	Lab Lake Wash PBT-EPA Grant		CVTOC	STORM WTR	03/30/12	04/04/12	04/04/12
L55397-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly		CVTOC	GRND WTR	04/03/12	04/04/12	04/04/12
L55397-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly		CVTOC	GRND WTR	04/03/12	04/04/12	04/04/12
L55399-1	421422-VALS-Q	SWD-VALS-Q Vashon Leachate Quarterly		CVTOC	LEACHATE	04/04/12	04/06/12	04/06/12
L55399-3	421422-VALS-M	SWD-VALS-M Vashon Leachate Monthly		CVTOC	LEACHATE	04/04/12	04/06/12	04/06/12
L55400-1	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly		CVTOC	LEACHATE	04/04/12	04/06/12	04/06/12
L55400-3	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly		CVTOC	LEACHATE	04/04/12	04/06/12	04/06/12
L55400-4	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly		CVTOC	LEACHATE	04/04/12	04/06/12	04/06/12
L55400-5	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly		CVTOC	LEACHATE	04/04/12	04/06/12	04/06/12
L55402-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly		CVTOC	GRND WTR	04/03/12	04/03/12	04/03/12
L55402-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly		CVTOC	GRND WTR	04/04/12	04/06/12	04/06/12
L55402-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly		CVTOC	GRND WTR	04/06/12	04/06/12	04/06/12
L55402-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly		CVTOC	GRND WTR	04/06/12	04/06/12	04/06/12
L55403-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly		CVTOC	GRND WTR	04/06/12	04/06/12	04/06/12
L55403-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly		CVTOC	GRND WTR	04/05/12	04/06/12	04/06/12
L55403-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly		CVTOC	GRND WTR	04/05/12	04/06/12	04/06/12

FREP@L55384-3

FREP@L55384-3

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L55403-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/06/12	04/06/12	04/06/12	
L55405-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/06/12	04/06/12	04/06/12	
L55405-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/06/12	04/06/12	04/06/12	
L55450-5	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	04/03/12	04/04/12	04/05/12	
L55450-5	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	04/03/12	04/04/12	04/04/12	
WG120560-1	MB		CVTOC	BLANK WTR	04/03/12	04/03/12	MB1 120403	
WG120560-2	LCS		CVTOC	BLANK WTR	04/03/12	04/03/12	LEVEL1	
WG120560-3	SB		CVTOC	BLANK WTR	04/03/12	04/03/12	WG120560-1	
WG120560-4	MS		CVTOC	GRND WTR	04/03/12	04/03/12	L55233-5	
WG120560-5	LD		CVTOC	FRESH WTR	04/03/12	04/03/12	L55356-3	
WG120560-6	LD		CVTOC	STORM WTR	04/03/12	04/03/12	L55384-2	
WG120560-7	MS		CVTOC	STORM WTR	04/03/12	04/03/12	L55384-4	
WG120560-8	MB		CVTOC	BLANK WTR	04/04/12	04/04/12	MB2 120403	
WG120560-9	LCS		CVTOC	BLANK WTR	04/04/12	04/04/12	LEVEL1	
WG120560-10	LD		CVTOC	FRESH WTR	04/04/12	04/04/12	L55381-1	
WG120560-11	MS		CVTOC	FRESH WTR	04/04/12	04/04/12	L55381-4	
WG120560-12	MB		CVTOC	BLANK WTR	04/04/12	04/04/12	MB1 120404	
WG120560-13	LCS		CVTOC	BLANK WTR	04/04/12	04/04/12	LEVEL1	
WG120560-14	SB		CVTOC	BLANK WTR	04/04/12	04/04/12	WG120560-12	
WG120560-15	LD		CVTOC	GRND WTR	04/04/12	04/04/12	L55270-2	
WG120560-16	MS		CVTOC	FRESH WTR	04/04/12	04/04/12	L55356-6	
WG120560-17	MB		CVDOC	BLANK WTR	04/04/12	04/05/12	MB1 120404	
WG120560-18	LCS		CVDOC	BLANK WTR	04/05/12	04/05/12	LEVEL1	
WG120560-19	SB		CVDOC	BLANK WTR	04/04/12	04/05/12	WG120560-17	
WG120560-20	LD		CVDOC	FRESH WTR	04/04/12	04/05/12	L55381-1	
WG120560-21	MS		CVDOC	FRESH WTR	04/04/12	04/05/12	L55381-3	
WG120560-22	MB		CVDOC	BLANK WTR	03/30/12	04/05/12	MB2 120330	
WG120560-23	LD		CVDOC	STORM WTR	03/30/12	04/05/12	L55384-1	
WG120560-24	MS		CVDOC	STORM WTR	03/30/12	04/05/12	L55384-3	
WG120560-25	MB		CVDOC	BLANK WTR	03/30/12	04/05/12	MB1 120330	
WG120560-26	MB		CVDOC	BLANK WTR	03/28/12	04/05/12	MB1 120328	
WG120560-27	LCS		CVDOC	BLANK WTR	04/05/12	04/05/12	LEVEL1	
WG120560-28	LD		CVDOC	STORM WTR	03/28/12	04/05/12	L55185-2	
WG120560-29	MS		CVDOC	STORM WTR	03/28/12	04/06/12	L55185-3	
WG120560-30	MB		CVTOC	BLANK WTR	04/06/12	04/06/12	MB1 120405	
WG120560-31	LCS		CVTOC	BLANK WTR	04/06/12	04/06/12	LEVEL1	
WG120560-32	SB		CVTOC	BLANK WTR	04/06/12	04/06/12	WG120560-30	
WG120560-33	LD		CVTOC	GRND WTR	04/06/12	04/06/12	L55402-2	
WG120560-34	MS		CVTOC	GRND WTR	04/06/12	04/06/12	L55403-5	
WG120560-35	MB		CVDOC	BLANK WTR	03/31/12	04/06/12	MB1 120331	
WG120560-36	MB		CVTOC	BLANK WTR	04/06/12	04/06/12	MB1 120406	

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WG120560-37	LCS		CVTOC	BLANK WTR	04/06/12	04/06/12	LEVEL1
WG120560-38	SB		CVTOC	BLANK WTR	04/06/12	04/06/12	WG120560-36
WG120560-39	LD		CVTOC	LEACHATE	04/06/12	04/06/12	L55399-1
WG120560-40	MS		CVTOC	LEACHATE	04/06/12	04/06/12	L55400-5

WG123061

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56427-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/07/12	09/13/12	09/13/12	
L56427-5	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/07/12	09/14/12	09/14/12	
L56428-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/12/12	09/13/12	09/13/12	
L56428-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/07/12	09/13/12	09/13/12	
L56428-4	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/12/12	09/13/12	09/13/12	
L56430-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/10/12	09/13/12	09/13/12	
L56430-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/13/12	09/13/12	09/13/12	
L56430-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/11/12	09/13/12	09/13/12	
L56432-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/12/12	09/13/12	09/13/12	
L56432-3	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/13/12	09/13/12	09/13/12	
L56453-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/13/12	09/13/12	09/13/12	
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	
L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	
L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	
L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/14/12	09/14/12	
WG123061-1	MB		CVTOC	BLANK WTR	09/13/12	09/13/12	09/13/12	MB1 120913
WG123061-2	LCS		CVTOC	BLANK WTR	09/13/12	09/13/12	09/13/12	LEVEL1
WG123061-3	SB		CVTOC	BLANK WTR	09/13/12	09/13/12	09/13/12	WG123061-1
WG123061-4	MS		CVTOC	GRND WTR	09/13/12	09/13/12	09/13/12	L56428-1
WG123061-5	LD		CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	L56484-4
WG123061-6	MS		CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	L56484-5
WG123061-7	MB		CVDOC	BLANK WTR	09/13/12	09/14/12	09/14/12	MB1 120913
WG123061-8	LCS		CVDOC	BLANK WTR	09/14/12	09/14/12	09/14/12	LEVEL1
WG123061-9	SB		CVDOC	BLANK WTR	09/13/12	09/14/12	09/14/12	WG123061-7
WG123061-10	LD		CVDOC	FRESH WTR	09/13/12	09/14/12	09/14/12	L56484-3

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WG123061-11 MS
WG123061-12 LD

CVDOC	FRESH WTR	09/13/12	09/14/12	L56484-4
CVTOC	GRND WTR	09/14/12	09/14/12	L56427-5

WG124253

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55434-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	10/31/12	11/02/12	11/15/12	SAMP
L55434-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	10/31/12	11/16/12	11/16/12	SAMP
L55434-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	10/31/12	11/02/12	11/15/12	SAMP
L55434-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	10/31/12	11/16/12	11/16/12	SAMP
L55434-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	10/31/12	11/02/12	11/15/12	FREP@L55434-2
L55434-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	10/31/12	11/16/12	11/16/12	FREP@L55434-2
L56881-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	BLANK WTR	10/31/12	11/02/12	11/16/12	Field Blank
L56881-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	BLANK WTR	10/31/12	11/16/12	11/16/12	Field Blank
L56913-1	421422-VALS-M	SWD-VALS-M Vashon Leachate Monthly	CVTOC	LEACHATE	11/14/12	11/16/12	11/16/12	
L56914-1	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	11/14/12	11/16/12	11/16/12	
L56914-3	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	11/14/12	11/16/12	11/16/12	
L56914-4	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	11/14/12	11/16/12	11/16/12	
L56914-5	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	11/14/12	11/16/12	11/16/12	
L56919-1	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	11/15/12	11/16/12	11/16/12	
L56919-3	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	11/15/12	11/16/12	11/16/12	
L56933-2	421422-VAGW-APP3	SWD-VAGW-Appendix III GW Analytes	CVTOC	GRND WTR	11/15/12	11/16/12	11/16/12	
WG124253-1	MB		CVDOC	BLANK WTR		11/02/12	11/15/12	MB1 121102 3:00
WG124253-2	LCS		CVDOC	BLANK WTR		11/15/12	11/15/12	LEVEL1
WG124253-3	SB		CVDOC	BLANK WTR		11/02/12	11/15/12	WG124253-1
WG124253-4	LD		CVDOC	STORM WTR		11/02/12	11/15/12	L55434-1
WG124253-5	MS		CVDOC	STORM WTR		11/02/12	11/15/12	L55434-3
WG124253-6	LD		CVTOC	GRND WTR		11/16/12	11/16/12	L56919-1
WG124253-7	MS		CVTOC	GRND WTR		11/16/12	11/16/12	L56919-3
WG124253-8	MB		CVTOC	BLANK WTR		11/16/12	11/16/12	MB1 121115
WG124253-9	LCS		CVTOC	BLANK WTR		11/16/12	11/16/12	LEVEL1
WG124253-10	SB		CVTOC	BLANK WTR		11/16/12	11/16/12	WG124253-8
WG124253-11	LD		CVTOC	STORM WTR		11/16/12	11/16/12	L55434-2
WG124253-12	MS		CVTOC	STORM WTR		11/16/12	11/16/12	L55434-3
WG124253-13	LD		CVTOC	LEACHATE		11/16/12	11/16/12	L56914-3
WG124253-14	MS		CVTOC	LEACHATE		11/16/12	11/16/12	L56914-4

WG124397

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56888-4	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	11/20/12	11/28/12	11/28/12	

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L56892-3	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	11/16/12	11/28/12	11/28/12	
L56894-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	11/16/12	11/28/12	11/28/12	
L56915-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	11/26/12	11/28/12	11/28/12	
L56917-1	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	11/16/12	11/28/12	11/28/12	
L56926-3	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	11/26/12	11/28/12	11/28/12	
L56929-1	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	11/26/12	11/28/12	11/28/12	
L56994-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/19/12	11/20/12	11/28/12	
L56994-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/12	11/28/12	11/28/12	
L57003-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	11/20/12	11/28/12	11/28/12	
L57003-3	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	11/20/12	11/28/12	11/28/12	
WG124397-1	MB		CVTOC	BLANK WTR		11/28/12	11/28/12	MB1 121128
WG124397-2	LCS		CVTOC	BLANK WTR		11/28/12	11/28/12	LEVEL1
WG124397-3	MB		CVDOC	BLANK WTR		11/20/12	11/28/12	MB1 121120
WG124397-4	LCS		CVDOC	BLANK WTR		11/28/12	11/28/12	LEVEL1
WG124397-5	SB		CVDOC	BLANK WTR		11/20/12	11/28/12	WG124397-3
WG124397-6	MS		CVDOC	STORM WTR		11/20/12	11/28/12	L56994-1
WG124397-7	MB		CVTOC	BLANK WTR		11/28/12	11/28/12	MB1 121126
WG124397-8	LCS		CVTOC	BLANK WTR		11/28/12	11/28/12	LEVEL1
WG124397-9	SB		CVTOC	BLANK WTR		11/28/12	11/28/12	WG124397-7
WG124397-10	MS		CVTOC	STORM WTR		11/28/12	11/28/12	L56994-1
WG124397-11	LD		CVTOC	GRND WTR		11/28/12	11/28/12	L56888-4
WG124397-12	MS		CVTOC	GRND WTR		11/28/12	11/28/12	L56929-1

WG120341

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55194-1	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	FRESH WTR	03/19/12	03/21/12	03/21/12	
L55194-2	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	FRESH WTR	03/19/12	03/21/12	03/21/12	
L55194-3	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	FRESH WTR	03/19/12	03/21/12	03/21/12	
L55195-1	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	SALT WTR	03/19/12	03/21/12	03/21/12	
L55195-2	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	SALT WTR	03/19/12	03/21/12	03/21/12	
L55195-3	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	SALT WTR	03/19/12	03/21/12	03/21/12	
L55219-5	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/15/12	03/21/12	03/21/12	
L55236-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	03/15/12	03/21/12	03/21/12	
L55241-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	03/15/12	03/21/12	03/21/12	
L55243-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/19/12	03/21/12	03/21/12	
L55243-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/19/12	03/21/12	03/21/12	
L55269-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/20/12	03/21/12	03/21/12	
L55269-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/20/12	03/21/12	03/21/12	
L55272-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/21/12	03/23/12	03/23/12	
L55272-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	03/21/12	03/23/12	03/23/12	

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L55284-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/20/12	03/23/12	03/23/12	
L55284-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/20/12	03/23/12	03/23/12	
L55284-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/20/12	03/23/12	03/23/12	
L55284-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/20/12	03/23/12	03/23/12	
L55284-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/20/12	03/23/12	03/23/12	
L55284-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	03/20/12	03/23/12	03/23/12	
L55309-1	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	03/14/12	03/21/12	03/21/12	
L55319-1	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	03/15/12	03/16/12	03/22/12	
L55319-1	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	03/15/12	03/21/12	03/21/12	
L55319-2	422027	Lab Lake Wash PBT-EPA Grant	CVDOC	STORM WTR	03/15/12	03/16/12	03/22/12	
L55319-2	422027	Lab Lake Wash PBT-EPA Grant	CVTOC	STORM WTR	03/15/12	03/21/12	03/21/12	
WG120341-1	MB		CVTOC	BLANK WTR		03/21/12	03/21/12	MB1 120321
WG120341-2	LCS		CVTOC	BLANK WTR		03/21/12	03/21/12	LEVEL1
WG120341-3	SB		CVTOC	BLANK WTR		03/21/12	03/21/12	WG120341-1
WG120341-4	LD		CVTOC	GRND WTR		03/21/12	03/21/12	L55243-3
WG120341-5	MS		CVTOC	GRND WTR		03/21/12	03/21/12	L55269-3
WG120341-6	MS		CVTOC	FRESH WTR		03/21/12	03/21/12	L55194-1
WG120341-7	LD		CVTOC	SALT WTR		03/21/12	03/21/12	L55195-3
WG120341-8	MS		CVTOC	STORM WTR		03/21/12	03/21/12	L55319-2
WG120341-9	LD		CVTOC	STORM WTR		03/21/12	03/21/12	L55309-1
WG120341-10	MB		CVDOC	BLANK WTR		03/16/12	03/22/12	MB1 120316
WG120341-11	LCS		CVDOC	BLANK WTR		03/22/12	03/22/12	LEVEL1
WG120341-12	SB		CVDOC	BLANK WTR		03/16/12	03/22/12	WG120341-10
WG120341-13	LD		CVDOC	STORM WTR		03/16/12	03/22/12	L55319-1
WG120341-14	MS		CVDOC	STORM WTR		03/16/12	03/22/12	L55319-2
WG120341-15	MB		CVTOC	BLANK WTR		03/23/12	03/23/12	MB1 120322
WG120341-16	LCS		CVTOC	BLANK WTR		03/23/12	03/23/12	LEVEL1
WG120341-17	SB		CVTOC	BLANK WTR		03/23/12	03/23/12	WG120341-15
WG120341-18	LD		CVTOC	STORM WTR		03/23/12	03/23/12	L55284-3
WG120341-19	MS		CVTOC	STORM WTR		03/23/12	03/23/12	L55284-5
WG120341-20	LD		CVTOC	GRND WTR		03/23/12	03/23/12	L55272-1
WG120341-21	MS		CVTOC	GRND WTR		03/23/12	03/23/12	L55272-3

WG120777

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55371-1	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	FRESH WTR	04/16/12	04/19/12	04/19/12	
L55371-2	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	FRESH WTR	04/16/12	04/19/12	04/19/12	
L55371-3	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	FRESH WTR	04/16/12	04/19/12	04/19/12	
L55372-1	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	SALT WTR	04/16/12	04/19/12	04/19/12	
L55372-2	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	SALT WTR	04/16/12	04/19/12	04/19/12	

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L55372-3	423589-030-1	LDWG-Water Column PCB Analysis	CVTOC	SALT WTR	04/16/12	04/19/12	04/19/12	
L55405-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/09/12	04/19/12	04/19/12	
L55405-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/09/12	04/19/12	04/19/12	
L55436-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/09/12	04/18/12	04/18/12	
L55436-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/09/12	04/18/12	04/18/12	
L55436-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/10/12	04/18/12	04/18/12	
L55438-1	421422-CHSW-A5-TD	SWD-CHSW - A5 TD Cedar Hills Surface Area 5 Top Deck	CVTOC	FRESH WTR	04/16/12	04/19/12	04/19/12	
L55438-2	421422-CHSW-A5-TD	SWD-CHSW - A5 TD Cedar Hills Surface Area 5 Top Deck	CVTOC	FRESH WTR	04/16/12	04/19/12	04/19/12	
L55440-1	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/16/12	04/19/12	04/19/12	
L55440-2	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/16/12	04/19/12	04/19/12	
L55440-3	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/17/12	04/19/12	04/19/12	
L55440-4	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/17/12	04/19/12	04/19/12	
L55440-5	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/17/12	04/19/12	04/19/12	
L55440-6	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/17/12	04/19/12	04/19/12	
L55444-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/10/12	04/18/12	04/18/12	
L55444-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/10/12	04/18/12	04/18/12	
L55444-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/12/12	04/18/12	04/18/12	
L55446-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/16/12	04/19/12	04/19/12	
L55446-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/16/12	04/19/12	04/19/12	
L55446-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/16/12	04/19/12	04/19/12	
L55471-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/17/12	04/19/12	04/19/12	
L55471-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/17/12	04/19/12	04/19/12	
L55471-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/17/12	04/19/12	04/19/12	
L55532-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	BLANK WTR	04/10/12	04/19/12	04/19/12	
L55532-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	BLANK WTR	04/17/12	04/19/12	04/19/12	
WG120777-1	MB		CVTOC	BLANK WTR	04/18/12	04/18/12	04/18/12	MB1 120418
WG120777-2	LCS		CVTOC	BLANK WTR	04/18/12	04/18/12	04/18/12	LEVEL1
WG120777-3	LCS		CVTOC	BLANK WTR	04/19/12	04/19/12	04/19/12	LEVEL1
WG120777-4	SB		CVTOC	BLANK WTR	04/19/12	04/19/12	04/19/12	WG120777-1
WG120777-5	LD		CVTOC	GRND WTR	04/19/12	04/19/12	04/19/12	L55446-1
WG120777-6	MS		CVTOC	GRND WTR	04/19/12	04/19/12	04/19/12	L55446-5
WG120777-7	LD		CVTOC	FRESH WTR	04/19/12	04/19/12	04/19/12	L55440-2
WG120777-8	MS		CVTOC	FRESH WTR	04/19/12	04/19/12	04/19/12	L55440-6
WG120777-9	MB		CVTOC	BLANK WTR	04/19/12	04/19/12	04/19/12	MB2 120418
WG120777-10	LCS		CVTOC	BLANK WTR	04/19/12	04/19/12	04/19/12	LEVEL1
WG120777-11	MS		CVTOC	FRESH WTR	04/19/12	04/19/12	04/19/12	L55371-3
WG120777-12	LD		CVTOC	SALT WTR	04/19/12	04/19/12	04/19/12	L55372-2

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#2)

WG120382

MB:WG120382-1 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120382-2 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	9.9	99		85--115

SB:WG120382-3 MB:WG120382-1 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	10.2	102		80--120

LD:WG120382-4 L55195-3 Matrix: SALT WTR Listtype:CVDOC Method:SM5310-B Project:423589-030-1 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.78	1.62	9		0--20

MB:WG120382-5 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

MB:WG120382-6 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LD:WG120382-7 L55284-2 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	4.44	4.09	8		0--20

MS:WG120382-8 L55284-4 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.57	10	12.3	108		75--125

MB:WG120382-9 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120382-10 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.43	94		85--115

SB:WG120382-11 MB:WG120382-9 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.2	102		80--120

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MS:WG120382-12 L55043-3 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CFSW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.85	10	11.8	109		75--125

LD:WG120382-13 L55274-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-PUGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	3.68	3.99	8		0--20

MS:WG120382-14 L55274-3 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-PUGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.3	10	11.7	104		75--125

MB:WG120382-15 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120382-16 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.2	102		85--115

SB:WG120382-17 MB:WG120382-15 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	9.61	96		80--120

LD:WG120382-18 L55154-1 Matrix: SEWER WTR Listtype:CVTOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	15	30	mg/L	704	725	3		0--20

MS:WG120382-19 L55154-3 Matrix: SEWER WTR Listtype:CVTOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	15	30	mg/L	226	10	559	111		75--125

MB:WG120382-20 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120382-21 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	10.5	105		85--115

SB:WG120382-22 MB:WG120382-20 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	11.1	111		80--120

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LD:WG120382-23 L55154-1 Matrix: SEWER WTR Listtype:CVDOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	15	30	mg/L	434	454	4		0--20

MS:WG120382-24 L55154-3 Matrix: SEWER WTR Listtype:CVDOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	15	30	mg/L	44	10	397	118		75--125

MS:WG120382-25 L55194-1 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:423589-030-1 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	2.15	10	13.4	113		75--125

LD:WG120382-26 L55043-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CFSW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	2.08	6.8	106	*	0--20

MB:WG120382-27 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120382-28 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.39	94		85--115

WG120560

MB:WG120560-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120560-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.08	91		85--115

SB:WG120560-3 MB:WG120560-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	9.24	92		80--120

MS:WG120560-4 L55233-5 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.34	10	11.8	105		75--125

LD:WG120560-5 L55356-3 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-VASW-2 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	40.4	35	14		0--20

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#2)

LD:WG120560-6 L55384-2 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	6.1	6.16	1		0--20

MS:WG120560-7 L55384-4 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.45	10	11.1	96		75--125

MB:WG120560-8 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120560-9 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.36	94		85--115

LD:WG120560-10 L55381-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421195-190 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.78	4.76	0		0--20

MS:WG120560-11 L55381-4 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421195-190 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.21	10	13.4	92		75--125

MB:WG120560-12 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120560-13 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.1	91		85--115

SB:WG120560-14 MB:WG120560-12 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	8.88	89		80--120

LD:WG120560-15 L55270-2 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.9	0.92			0--20

MS:WG120560-16 L55356-6 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-VASW-2 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	21.5	10	61.7	80		75--125

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#2)

MB:WG120560-17 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120560-18 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	9.65	96		85--115

SB:WG120560-19 MB:WG120560-17 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	9.95	100		80--120

LD:WG120560-20 L55381-1 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:421195-190 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	4.77	4.36	9		0--20

MS:WG120560-21 L55381-3 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:421195-190 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	5.76	10	14.9	91		75--125

MB:WG120560-22 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LD:WG120560-23 L55384-1 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	7.16	7.23	1		0--20

MS:WG120560-24 L55384-3 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.24	10	10.3	90		75--125

MB:WG120560-25 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

MB:WG120560-26 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120560-27 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	9.38	94		85--115

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LD:WG120560-28 L55185-2 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	2.5	5	mg/L	91.3	90	1		0--20

MS:WG120560-29 L55185-3 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-320-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	2.5	5	mg/L	52.2	10	99.8	95		75--125

MB:WG120560-30 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120560-31 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.43	94		85--115

SB:WG120560-32 MB:WG120560-30 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	8.98	90		80--120

LD:WG120560-33 L55402-2 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.83	0.72			0--20

MS:WG120560-34 L55403-5 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.66	10	10.4	97		75--125

MB:WG120560-35 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

MB:WG120560-36 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120560-37 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.82	98		85--115

SB:WG120560-38 MB:WG120560-36 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.7	107		80--120

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LD:WG120560-39 L55399-1 Matrix: LEACHATE Listtype:CVTOC Method:SM5310-B Project:421422-VALS-Q Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	7.31	6.83	7		0--20

MS:WG120560-40 L55400-5 Matrix: LEACHATE Listtype:CVTOC Method:SM5310-B Project:421422-CHLS-M Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	18	35	mg/L	439	10	747	88		75--125

WG123061

MB:WG123061-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG123061-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.73	97		85--115

SB:WG123061-3 MB:WG123061-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	9.26	93		80--120

MS:WG123061-4 L56428-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-HTGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.08	10	11.2	101		75--125

LD:WG123061-5 L56484-4 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	2.47	2.35	5		0--20

MS:WG123061-6 L56484-5 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	2.39	10	12.6	102		75--125

MB:WG123061-7 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG123061-8 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	9.74	97		85--115

SB:WG123061-9 MB:WG123061-7 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	10.8	108		80--120

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LD:WG123061-10 L56484-3 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	2.02	1.87	8		0--20

MS:WG123061-11 L56484-4 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.93	10	12.5	106		75--125

LD:WG123061-12 L56427-5 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-DUGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.09	1.01	8		0--20

WG124253

MB:WG124253-1 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG124253-2 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	9.84	98		85--115

SB:WG124253-3 MB:WG124253-1 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	10.5	105		80--120

LD:WG124253-4 L55434-1 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	8.98	9.67	7		0--20

MS:WG124253-5 L55434-3 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	6.88	10	17.2	103		75--125

LD:WG124253-6 L56919-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-ENGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	0.53			0--20

MS:WG124253-7 L56919-3 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-ENGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.61	10	11.3	107		75--125

MB:WG124253-8 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#2)

LCS:WG124253-9 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.4	104		85--115

SB:WG124253-10 MB:WG124253-8 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.6	106		80--120

LD:WG124253-11 L55434-2 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	7.5	7.45	1		0--20

MS:WG124253-12 L55434-3 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	6.89	10	17	101		75--125

LD:WG124253-13 L56914-3 Matrix: LEACHATE Listtype:CVTOC Method:SM5310-B Project:421422-CHLS-M Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	5	10	mg/L	16	16.5	3		0--20

MS:WG124253-14 L56914-4 Matrix: LEACHATE Listtype:CVTOC Method:SM5310-B Project:421422-CHLS-M Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	18	35	mg/L	523	10	869	99		75--125

WG124397

MB:WG124397-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG124397-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.2	102		85--115

MB:WG124397-3 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG124397-4 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	9.97	100		85--115

SB:WG124397-5 MB:WG124397-3 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	10.8	108		80--120

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#2)

MS:WG124397-6 L56994-1 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	14.8	10	23.6	88		75--125

MB:WG124397-7 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG124397-8 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.93	99		85--115

SB:WG124397-9 MB:WG124397-7 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.1	101		80--120

MS:WG124397-10 L56994-1 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	1.5	3	mg/L	18.8	10	49.5	102		75--125

LD:WG124397-11 L56888-4 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-HOGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.12	0.99	13		0--20

MS:WG124397-12 L56929-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-ENGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.16	10	11.4	103		75--125

WG120341

MB:WG120341-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120341-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.95	99		85--115

SB:WG120341-3 MB:WG120341-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.3	103		80--120

LD:WG120341-4 L55243-3 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-PUGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.4	1.32	6		0--20

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#2)

MS:WG120341-5 L55269-3 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-PUGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.22	10	11.5	103		75--125

MS:WG120341-6 L55194-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:423589-030-1 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.9	10	11.9	100		75--125

LD:WG120341-7 L55195-3 Matrix: SALT WTR Listtype:CVTOC Method:SM5310-B Project:423589-030-1 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.93	2.03	5		0--20

MS:WG120341-8 L55319-2 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:422027 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	2.5	5	mg/L	49.4	10	92.8	87		75--125

LD:WG120341-9 L55309-1 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:422027 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	1	2	mg/L	6.82	7.09	4		0--20

MB:WG120341-10 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120341-11 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	9.28	93		85--115

SB:WG120341-12 MB:WG120341-10 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	10	100		80--120

LD:WG120341-13 L55319-1 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:422027 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	23.1	22.9	1		0--20

MS:WG120341-14 L55319-2 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:422027 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	23.5	10	33.4	99		75--125

MB:WG120341-15 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#2)

LCS:WG120341-16 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.38	94		85--115

SB:WG120341-17 MB:WG120341-15 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	9	90		80--120

LD:WG120341-18 L55284-3 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	8.68	8.49	2		0--20

MS:WG120341-19 L55284-5 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	6.05	10	15.9	99		75--125

LD:WG120341-20 L55272-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-PUGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.22	1.15	6		0--20

MS:WG120341-21 L55272-3 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-PUGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.8	10	10.6	98		75--125

WG120777

MB:WG120777-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120777-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	8.58	86		85--115

LCS:WG120777-3 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.87	99		85--115

SB:WG120777-4 MB:WG120777-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	9.62	96		80--120

LD:WG120777-5 L55446-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.87	0.82			0--20

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TOC and DOC (#2)

MS:WG120777-6 L55446-5 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	0.88	10	11.2	103		75--125

LD:WG120777-7 L55440-2 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHSW-Q Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.69	4.86	4		0--20

MS:WG120777-8 L55440-6 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHSW-Q Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	3.43	10	13.2	98		75--125

MB:WG120777-9 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG120777-10 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	10.1	101		85--115

MS:WG120777-11 L55371-3 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:423589-030-1 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.99	10	11.4	94		75--125

LD:WG120777-12 L55372-2 Matrix: SALT WTR Listtype:CVTOC Method:SM5310-B Project:423589-030-1 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.64	1.75	7		0--20

LIMSView Batch Report for Green River Bulk Water Storm Samples - Data Validation for TSS (#1)

WG118621

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54191-1	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	11/17/11	11/18/11	11/21/11	
L54191-2	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	11/17/11	11/18/11	11/21/11	
L54191-3	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	11/17/11	11/18/11	11/21/11	
L54191-4	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	11/17/11	11/18/11	11/21/11	
L54191-5	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	11/17/11	11/18/11	11/21/11	
L54191-6	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	11/17/11	11/18/11	11/21/11	
L54285-1	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
L54285-2	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
L54285-3	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
L54285-4	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
L54351-1	421422-ENLS	SWD-ENLS Enumclaw Wastewater Permit	CVTSS	IW WTR	11/15/11	11/18/11	11/21/11	
L54534-1	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-2	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-3	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-4	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-6	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-7	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-8	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-9	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-11	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-12	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-13	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-15	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-16	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/14/11	11/18/11	11/21/11	
L54534-19	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/15/11	11/18/11	11/21/11	
L54534-20	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/15/11	11/18/11	11/21/11	
L54534-22	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/15/11	11/18/11	11/21/11	
L54534-23	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/15/11	11/18/11	11/21/11	
L54565-1	421195-140	Lake Sawyer	CVTSS	FRESH WTR	11/13/11	11/18/11	11/21/11	
L54565-2	421195-140	Lake Sawyer	CVTSS	FRESH WTR	11/13/11	11/18/11	11/21/11	
L54565-3	421195-140	Lake Sawyer	CVTSS	FRESH WTR	11/13/11	11/18/11	11/21/11	
L54573-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTSS	GRND WTR	11/16/11	11/18/11	11/21/11	
L54574-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTSS	GRND WTR	11/15/11	11/18/11	11/21/11	
L54576-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/14/11	11/18/11	11/21/11	
L54576-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/14/11	11/18/11	11/21/11	
L54578-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTSS	GRND WTR	11/14/11	11/18/11	11/21/11	
L54578-3	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTSS	GRND WTR	11/15/11	11/18/11	11/21/11	
L54579-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTSS	GRND WTR	11/15/11	11/18/11	11/21/11	

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L54579-3	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTSS	GRND WTR	11/18/11	11/18/11	11/21/11	
L54604-1	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	11/16/11	11/18/11	11/21/11	
L54604-2	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	11/16/11	11/18/11	11/21/11	
L54604-3	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	11/16/11	11/18/11	11/21/11	
L54604-4	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	11/16/11	11/18/11	11/21/11	
L54604-5	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	11/16/11	11/18/11	11/21/11	
L54604-6	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	11/17/11	11/18/11	11/21/11	
L54604-7	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	11/17/11	11/18/11	11/21/11	
L54604-8	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	11/17/11	11/18/11	11/21/11	
L54604-9	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	11/17/11	11/18/11	11/21/11	
L54604-11	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	11/17/11	11/18/11	11/21/11	
L54604-12	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	11/17/11	11/18/11	11/21/11	
L54624-1	421879-210	NPDES SW Monitoring	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
L54624-2	421879-210	NPDES SW Monitoring	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
L54625-1	421879-210	NPDES SW Monitoring	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
L54626-2	421879-220	NPDES SW Sammamish	CVTSS	STORM WTR	11/14/11	11/18/11	11/21/11	
L54627-1	421879-220	NPDES SW Sammamish	CVTSS	STORM WTR	11/15/11	11/18/11	11/21/11	
L54661-1	421879-220	NPDES SW Sammamish	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
L54675-1	421422-CHSW-P2	SWD-CHSW P - 2 Cedar Hills Surface Water Permit 2	CVTSS	FRESH WTR	11/17/11	11/18/11	11/21/11	
L54675-2	421422-CHSW-P2	SWD-CHSW P - 2 Cedar Hills Surface Water Permit 2	CVTSS	FRESH WTR	11/17/11	11/18/11	11/21/11	
L54675-3	421422-CHSW-P2	SWD-CHSW P - 2 Cedar Hills Surface Water Permit 2	CVTSS	FRESH WTR	11/17/11	11/18/11	11/21/11	
L54681-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
L54681-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
L54681-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
L54681-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/16/11	11/18/11	11/21/11	
WG118621- MB			CVTSS	BLANK WTR	11/18/11	11/21/11		MB1 111118
WG118621- LCS			CVTSS	BLANK WTR	11/18/11	11/21/11		LEVEL1
WG118621- LD			CVTSS	FRESH WTR	11/18/11	11/21/11		L54534-23
WG118621- LD			CVTSS	GRND WTR	11/18/11	11/21/11		L54574-1
WG118621-! MB			CVTSS	BLANK WTR	11/18/11	11/21/11		MB2 111118
WG118621-! LCS			CVTSS	BLANK WTR	11/18/11	11/21/11		LEVEL1
WG118621-! LD			CVTSS	GRND WTR	11/18/11	11/21/11		L54578-3
WG118621-! LD			CVTSS	FRESH WTR	11/18/11	11/21/11		L54604-9
WG118621-! LD			CVTSS	STORM WTR	11/18/11	11/21/11		L54624-1
WG118621- MB			CVTSS	BLANK WTR	11/18/11	11/21/11		MB3 111118
WG118621- LCS			CVTSS	BLANK WTR	11/18/11	11/21/11		LEVEL1
WG118621- LD			CVTSS	STORM WTR	11/18/11	11/21/11		L54661-1
WG118621- LD			CVTSS	FRESH WTR	11/18/11	11/21/11		L54675-2
WG118621- LD			CVTSS	STORM WTR	11/18/11	11/21/11		L54681-1
WG118621- LD			CVTSS	STORM WTR	11/18/11	11/21/11		L54285-1
WG118621- LD			CVTSS	STORM WTR	11/18/11	11/21/11		L54191-2

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WG118621-:LD		CVTSS	IW WTR	11/18/11	11/21/11	L54351-1
WG118621-:MB		CVTSS	BLANK WTR	11/18/11	11/21/11	MB4 111118
WG118621-:LCS		CVTSS	BLANK WTR	11/18/11	11/21/11	LEVEL1
WG118621-:LD		CVTSS	FRESH WTR	11/18/11	11/21/11	L54565-1
WG118621-:LD		CVTSS	GRND WTR	11/18/11	11/21/11	L54579-3

WG119582

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54686-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	01/31/12	02/02/12	02/02/12	
L54686-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	01/31/12	02/02/12	02/02/12	
L54928-6	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	01/31/12	02/02/12	02/02/12	
L54928-7	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	01/31/12	02/02/12	02/02/12	
L54928-8	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	01/31/12	02/02/12	02/02/12	
L54928-9	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	01/31/12	02/02/12	02/02/12	
L54928-10	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	01/31/12	02/02/12	02/02/12	
L54956-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	01/31/12	02/02/12	02/02/12	
L54958-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	01/30/12	02/02/12	02/02/12	
L54958-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	01/30/12	02/02/12	02/02/12	
L54958-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	02/01/12	02/02/12	02/02/12	
L54959-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	01/30/12	02/02/12	02/02/12	
L54961-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	01/30/12	02/02/12	02/02/12	
L54963-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	02/01/12	02/02/12	02/02/12	
L54963-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	02/01/12	02/02/12	02/02/12	
L55015-1	421195-140	Lake Sawyer	CVTSS	STORM WTR	01/30/12	02/02/12	02/02/12	
L55015-2	421195-140	Lake Sawyer	CVTSS	STORM WTR	01/30/12	02/02/12	02/02/12	
L55015-3	421195-140	Lake Sawyer	CVTSS	STORM WTR	01/30/12	02/02/12	02/02/12	
L55015-4	421195-140	Lake Sawyer	CVTSS	STORM WTR	01/30/12	02/02/12	02/02/12	
L55015-5	421195-140	Lake Sawyer	CVTSS	STORM WTR	01/30/12	02/02/12	02/02/12	
L55015-6	421195-140	Lake Sawyer	CVTSS	STORM WTR	01/30/12	02/02/12	02/02/12	
L55015-7	421195-140	Lake Sawyer	CVTSS	STORM WTR	01/30/12	02/02/12	02/02/12	
WG119582-:MB			CVTSS	BLANK WTR		02/02/12	02/02/12	MB1 2/2/12
WG119582-:LCS			CVTSS	BLANK WTR		02/02/12	02/02/12	LEVEL1
WG119582-:LD			CVTSS	FRESH WTR		02/02/12	02/02/12	L54928-8
WG119582-:LD			CVTSS	GRND WTR		02/02/12	02/02/12	L54959-5
WG119582-!MB			CVTSS	BLANK WTR		02/02/12	02/02/12	MB2 2/2/12
WG119582-!LCS			CVTSS	BLANK WTR		02/02/12	02/02/12	LEVEL1
WG119582-:LD			CVTSS	STORM WTR		02/02/12	02/02/12	L55015-3
WG119582-:LD			CVTSS	STORM WTR		02/02/12	02/02/12	L54686-5

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WG119613

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54686-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	01/31/12	02/06/12	02/06/12	
L54686-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	01/31/12	02/06/12	02/06/12	
L54686-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	01/31/12	02/06/12	02/06/12	
L54924-6	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	02/02/12	02/06/12	02/06/12	
L54963-5	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	02/03/12	02/06/12	02/06/12	
L55020-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	02/02/12	02/06/12	02/06/12	
L55020-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	02/02/12	02/06/12	02/06/12	
L55020-5	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	02/02/12	02/06/12	02/06/12	
L55021-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTSS	GRND WTR	02/03/12	02/06/12	02/06/12	
L55022-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	02/03/12	02/06/12	02/06/12	
WG119613-!MB			CVTSS	BLANK WTR		02/06/12	02/06/12	MB1 2/6/12
WG119613-!LCS			CVTSS	BLANK WTR		02/06/12	02/06/12	LEVEL1
WG119613-!LD			CVTSS	STORM WTR		02/06/12	02/06/12	L54686-1
WG119613-!LD			CVTSS	GRND WTR		02/06/12	02/06/12	L55020-5

WG119910

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55034-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTSS	GRND WTR	02/27/12	02/28/12	02/29/12	
L55035-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTSS	GRND WTR	02/27/12	02/28/12	02/29/12	
L55035-3	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTSS	GRND WTR	02/27/12	02/28/12	02/29/12	
L55061-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTSS	GRND WTR	02/27/12	02/28/12	02/29/12	
L55062-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTSS	GRND WTR	02/24/12	02/28/12	02/29/12	
L55062-3	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTSS	GRND WTR	02/27/12	02/28/12	02/29/12	
L55062-4	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTSS	GRND WTR	02/27/12	02/28/12	02/29/12	
L55062-5	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTSS	GRND WTR	02/23/12	02/28/12	02/29/12	
L55077-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	02/24/12	02/28/12	02/29/12	
L55077-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	02/24/12	02/28/12	02/29/12	
L55077-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	02/24/12	02/28/12	02/29/12	
L55077-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	02/24/12	02/28/12	02/29/12	
L55175-2	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	02/24/12	02/28/12	02/29/12	
L55175-3	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	02/24/12	02/28/12	02/29/12	
L55175-6	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	02/24/12	02/28/12	02/29/12	
WG119919-!MB			CVTSS	BLANK WTR		02/28/12	02/29/12	MB 2/28/12
WG119919-!LCS			CVTSS	BLANK WTR		02/28/12	02/29/12	LEVEL1
WG119919-!LD			CVTSS	STORM WTR		02/28/12	02/29/12	L55077-6
WG119919-!LD			CVTSS	STORM WTR		02/28/12	02/29/12	L55175-3
WG119919-!LD			CVTSS	GRND WTR		02/28/12	02/29/12	L55062-1

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WG120009

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54649-1	421422-CHSW-P	SWD-CHSW P Cedar Hills Surface Water Permit	CVTSS	FRESH WTR	03/05/12	03/07/12	03/07/12	
L54649-2	421422-CHSW-P	SWD-CHSW P Cedar Hills Surface Water Permit	CVTSS	FRESH WTR	03/05/12	03/07/12	03/07/12	
L54649-3	421422-CHSW-P	SWD-CHSW P Cedar Hills Surface Water Permit	CVTSS	FRESH WTR	03/05/12	03/07/12	03/07/12	
L55065-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTSS	GRND WTR	03/05/12	03/07/12	03/07/12	
L55065-3	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTSS	GRND WTR	03/05/12	03/07/12	03/07/12	
L55065-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/06/12	03/07/12	03/07/12	
L55177-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/05/12	03/07/12	03/07/12	
L55177-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/05/12	03/07/12	03/07/12	
L55177-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/05/12	03/07/12	03/07/12	
L55177-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/05/12	03/07/12	03/07/12	
L55177-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/05/12	03/07/12	03/07/12	
L55198-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/06/12	03/07/12	03/07/12	
L55198-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/06/12	03/07/12	03/07/12	
L55198-5	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/06/12	03/07/12	03/07/12	
L55210-1	421195-190	Vashon Island Surface Water	CVTSS	FRESH WTR	03/06/12	03/07/12	03/07/12	
L55210-2	421195-190	Vashon Island Surface Water	CVTSS	FRESH WTR	03/06/12	03/07/12	03/07/12	
L55210-3	421195-190	Vashon Island Surface Water	CVTSS	FRESH WTR	03/06/12	03/07/12	03/07/12	
L55210-4	421195-190	Vashon Island Surface Water	CVTSS	FRESH WTR	03/06/12	03/07/12	03/07/12	
L55225-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTSS	GRND WTR	03/05/12	03/07/12	03/07/12	
L55225-3	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTSS	GRND WTR	03/05/12	03/07/12	03/07/12	
WG120009-:MB			CVTSS	BLANK WTR		03/07/12	03/07/12	MB1 3/7/12
WG120009-:LCS			CVTSS	BLANK WTR		03/07/12	03/07/12	LEVEL1
WG120009-:LD			CVTSS	FRESH WTR		03/07/12	03/07/12	L54649-3
WG120009-:LD			CVTSS	GRND WTR		03/07/12	03/07/12	L55225-3
WG120009-!LD			CVTSS	STORM WTR		03/07/12	03/07/12	L55177-5
WG120009-!LD			CVTSS	FRESH WTR		03/07/12	03/07/12	L55210-3

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TSS (#1)

WG118621

MB:WG118621-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG118621-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	99	99		80--120

LD:WG118621-3 L54534-23 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421235 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	2.2	2.4	9		0--25

LD:WG118621-4 L54574-1 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-CFGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	7.2	7.4	3		0--25

MB:WG118621-5 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG118621-6 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	91	91		80--120

LD:WG118621-7 L54578-3 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-CFGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1.3	2.5	mg/L	24.3	24.5	1		0--25

LD:WG118621-8 L54604-9 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421422-CHSW-M Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	194	215	10		0--25

LD:WG118621-9 L54624-1 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:421879-210 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	120	120	0		0--25

MB:WG118621-10 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG118621-11 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	97	97		80--120

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TSS (#1)

LD:WG118621-12 L54661-1 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:421879-220 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1.3	2.5	mg/L	34.8	44.8	25		0-25

LD:WG118621-13 L54675-2 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421422-CHSW-P2 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	19	25	27	*	0-25

LD:WG118621-14 L54681-1 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1.3	2.5	mg/L	6.75	6	12		0-25

LD:WG118621-15 L54285-1 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:421195-180 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1.7	3.3	mg/L	27	26.7	1		0-25

LD:WG118621-16 L54191-2 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:422027 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	12.4	14.2	14		0-25

LD:WG118621-17 L54351-1 Matrix: IW WTR Listtype:CVTSS Method:SM2540-D Project:421422-ENLS Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	10	20	mg/L	404	366	10		0-25

MB:WG118621-18 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG118621-19 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	97	97		80-120

LD:WG118621-20 L54565-1 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421195-140 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	1	1			0-25

LD:WG118621-21 L54579-3 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-CFGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	<MDL	<MDL			0-25

WG119582

MB:WG119582-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LIMSView QC Report for Green River Bulk Water Storm Samples - Data Validation for TSS (#1)

LCS:WG119582-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD

(Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	90	90		80-120

LD:WG119582-3 L54928-8 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421422-CHSW-Q Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	14.6	14	4		0-25

LD:WG119582-4 L54959-5 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-CHGW Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	<MDL	<MDL			0-25

MB:WG119582-5 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG119582-6 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD

(Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	93	93		80-120

LD:WG119582-7 L55015-3 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:421195-140 Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	20.8	21.8	5		0-25

LD:WG119582-8 L54686-5 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1.1	2.3	mg/L	5.68	5.68	0		0-25

WG119613

MB:WG119613-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG119613-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD

(Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	97	97		80-120

LD:WG119613-3 L54686-1 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1.1	2.2	mg/L	8.89	9.56	7		0-25

LD:WG119613-4 L55020-5 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-VAGW Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	<MDL	<MDL			0-25

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WG119919

MB:WG119919-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG119919-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	93	93		80--120

LD:WG119919-3 L55077-6 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	102	102	1		0--25

LD:WG119919-4 L55175-3 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:422027 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	57.2	62.6	9		0--25

LD:WG119919-5 L55062-1 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-HOGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	<MDL	<MDL			0--25

WG120009

MB:WG120009-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG120009-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	94	94		80--120

LD:WG120009-3 L54649-3 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421422-CHSW-P Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	18	17.6	2		0--25

LD:WG120009-4 L55225-3 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-HOGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	2	2.2	10		0--25

LD:WG120009-5 L55177-5 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	5.71	5.71	0		0--25

LD:WG120009-6 L55210-3 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421195-190 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	4.8	4.2	13		0--25

LIMSView Batch Report for Green River Bulk Water Storm Samples - Data Validation for TSS (#2)

WG120085

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55060-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/08/12	03/13/12	03/13/12	
L55060-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/08/12	03/13/12	03/13/12	
L55198-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/08/12	03/13/12	03/13/12	
L55219-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/08/12	03/13/12	03/13/12	
L55219-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/08/12	03/13/12	03/13/12	
L55219-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/08/12	03/13/12	03/13/12	
L55220-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/09/12	03/13/12	03/13/12	
L55220-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/09/12	03/13/12	03/13/12	
L55220-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/09/12	03/13/12	03/13/12	
L55223-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	03/12/12	03/13/12	03/13/12	
L55231-1	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	03/12/12	03/13/12	03/13/12	
L55231-2	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	03/12/12	03/13/12	03/13/12	
L55231-5	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	03/12/12	03/13/12	03/13/12	
L55231-6	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	03/12/12	03/13/12	03/13/12	
L55231-7	422027	Lab Lake Wash PBT-EPA Grant	CVTSS	STORM WTR	03/12/12	03/13/12	03/13/12	
L55283-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/10/12	03/13/12	03/13/12	
L55283-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/10/12	03/13/12	03/19/12	
L55283-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/10/12	03/13/12	03/13/12	
L55283-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/10/12	03/13/12	03/13/12	
L55283-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/10/12	03/13/12	03/13/12	
WG120085-1	MB		CVTSS	BLANK WTR		03/13/12	03/13/12	MB 3/13/12
WG120085-2	LCS		CVTSS	BLANK WTR		03/13/12	03/13/12	LEVEL1
WG120085-3	LD		CVTSS	GRND WTR		03/13/12	03/13/12	L55220-4
WG120085-4	LD		CVTSS	STORM WTR		03/13/12	03/13/12	L55283-3
WG120085-5	LD		CVTSS	STORM WTR		03/13/12	03/13/12	L55231-5

WG120274

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55194-1	423589-030-1	LDWG-Water Column PCB Analysis	CVTSS	FRESH WTR	03/19/12	03/22/12	03/22/12	
L55194-2	423589-030-1	LDWG-Water Column PCB Analysis	CVTSS	FRESH WTR	03/19/12	03/22/12	03/22/12	
L55194-3	423589-030-1	LDWG-Water Column PCB Analysis	CVTSS	FRESH WTR	03/19/12	03/22/12	03/22/12	
L55195-1	423589-030-1	LDWG-Water Column PCB Analysis	CVTSS	SALT WTR	03/19/12	03/22/12	03/22/12	
L55195-2	423589-030-1	LDWG-Water Column PCB Analysis	CVTSS	SALT WTR	03/19/12	03/22/12	03/22/12	
L55195-3	423589-030-1	LDWG-Water Column PCB Analysis	CVTSS	SALT WTR	03/19/12	03/22/12	03/22/12	
L55269-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	03/20/12	03/22/12	03/22/12	
L55269-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	03/20/12	03/22/12	03/22/12	
L55272-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	03/21/12	03/22/12	03/22/12	

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L55272-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	03/21/12	03/22/12	03/22/12	
L55284-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/20/12	03/22/12	03/22/12	
L55284-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/20/12	03/22/12	03/22/12	
L55284-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/20/12	03/22/12	03/22/12	
L55284-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/20/12	03/22/12	03/22/12	
L55284-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/20/12	03/22/12	03/22/12	
L55284-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/20/12	03/22/12	03/22/12	
WG120274-1	MB		CVTSS	BLANK WTR		03/22/12	03/22/12	MB1 3/22/12
WG120274-2	LCS		CVTSS	BLANK WTR		03/22/12	03/22/12	LEVEL1
WG120274-3	LD		CVTSS	GRND WTR		03/22/12	03/22/12	L55272-1
WG120274-4	LD		CVTSS	STORM WTR		03/22/12	03/22/12	L55284-3
WG120274-5	LD		CVTSS	FRESH WTR		03/22/12	03/22/12	L55194-3
WG120274-6	LD		CVTSS	FRESH WTR		03/22/12	03/22/12	L55195-3

WG120467

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55066-1	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTSS	FRESH WTR	03/29/12	04/04/12	04/04/12	
L55233-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	03/30/12	04/04/12	04/04/12	
L55233-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	03/29/12	04/04/12	04/04/12	
L55233-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	03/29/12	04/04/12	04/04/12	
L55233-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	03/29/12	04/04/12	04/04/12	
L55240-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	03/28/12	04/04/12	04/04/12	
L55268-1	421422-CHGW-NP	SWD-CHGW-NP Cedar Hills Groundwater Non-Potable	CVTSS	GRND WTR	03/30/12	04/04/12	04/04/12	
L55270-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/03/12	04/04/12	04/04/12	
L55270-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/03/12	04/04/12	04/04/12	
L55277-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	03/28/12	04/04/12	04/04/12	
L55278-1	421422-DUSW	SWD-DUSW Duvall Surface Water Quarterly	CVTSS	FRESH WTR	03/28/12	04/04/12	04/04/12	
L55356-3	421422-VASW-2	SWD-VASW-2 Vashon Surface Water Quarterly	CVTSS	FRESH WTR	03/29/12	04/04/12	04/04/12	
L55356-6	421422-VASW-2	SWD-VASW-2 Vashon Surface Water Quarterly	CVTSS	FRESH WTR	03/29/12	04/04/12	04/04/12	
L55356-7	421422-VASW-2	SWD-VASW-2 Vashon Surface Water Quarterly	CVTSS	FRESH WTR	03/29/12	04/04/12	04/04/12	
L55384-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/29/12	04/04/12	04/04/12	
L55384-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/29/12	04/04/12	04/04/12	
L55384-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/29/12	04/04/12	04/04/12	
L55384-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	03/29/12	04/04/12	04/04/12	
L55397-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/03/12	04/04/12	04/04/12	
L55397-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/03/12	04/04/12	04/04/12	
WG120467-1	MB		CVTSS	BLANK WTR		04/04/12	04/04/12	MB14/4/12
WG120467-2	LCS		CVTSS	BLANK WTR		04/04/12	04/04/12	LEVEL1
WG120467-3	LD		CVTSS	GRND WTR		04/04/12	04/04/12	L55240-3
WG120467-4	LD		CVTSS	FRESH WTR		04/04/12	04/04/12	L55356-7

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WG120467-5 LD

CVTSS STORM WTR 04/04/12 04/04/12 L55384-1

WG123139

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56239-1	421250ON	Ambient Offshore Water Column-North	CVTSS	FRESH WTR	09/17/12	09/19/12	09/19/12	
L56239-2	421250ON	Ambient Offshore Water Column-North	CVTSS	FRESH WTR	09/17/12	09/19/12	09/19/12	
L56239-3	421250ON	Ambient Offshore Water Column-North	CVTSS	FRESH WTR	09/17/12	09/19/12	09/19/12	
L56341-5	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	09/18/12	09/19/12	09/19/12	
L56385-1	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-2	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-3	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-4	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-5	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-6	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-7	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-8	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-9	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-10	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-11	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-12	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56392-1	421250OS	Ambient Offshore Water Column-South	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-2	421250OS	Ambient Offshore Water Column-South	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-3	421250OS	Ambient Offshore Water Column-South	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-4	421250OS	Ambient Offshore Water Column-South	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-5	421250OS	Ambient Offshore Water Column-South	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-6	421250OS	Ambient Offshore Water Column-South	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-7	421250OS	Ambient Offshore Water Column-South	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56395-1	421250ON	Ambient Offshore Water Column-North	CVTSS	SALT WTR	09/17/12	09/19/12	09/19/12	
L56395-2	421250ON	Ambient Offshore Water Column-North	CVTSS	SALT WTR	09/17/12	09/19/12	09/19/12	
L56395-3	421250ON	Ambient Offshore Water Column-North	CVTSS	SALT WTR	09/17/12	09/19/12	09/19/12	
L56430-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/13/12	09/19/12	09/19/12	
L56431-1	421422-ENLS	SWD-ENLS Enumclaw Wastewater Permit	CVTSS	IW WTR	09/18/12	09/19/12	09/19/12	
L56433-4	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/17/12	09/19/12	09/19/12	
L56454-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/17/12	09/19/12	09/19/12	
L56454-3	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/17/12	09/19/12	09/19/12	
L56455-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	09/17/12	09/19/12	09/19/12	
L56455-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	09/17/12	09/19/12	09/19/12	
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	
L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	

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L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	
L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	
L56492-4	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	09/18/12	09/19/12	09/19/12	
WG123139-1	MB		CVTSS	BLANK WTR		09/19/12	09/19/12	MB1 9/19/12
WG123139-2	LCS		CVTSS	BLANK WTR		09/19/12	09/19/12	LEVEL1
WG123139-3	LD		CVTSS	FRESH WTR		09/19/12	09/19/12	L56385-7
WG123139-4	LD		CVTSS	GRND WTR		09/19/12	09/19/12	L56455-3
WG123139-5	MB		CVTSS	BLANK WTR		09/19/12	09/19/12	MB2 9/19/12
WG123139-6	LCS		CVTSS	BLANK WTR		09/19/12	09/19/12	LEVEL1
WG123139-7	LD		CVTSS	IW WTR		09/19/12	09/19/12	L56431-1
WG123139-8	LD		CVTSS	FRESH WTR		09/19/12	09/19/12	L56484-1
WG123139-9	LD		CVTSS	FRESH WTR		09/19/12	09/19/12	L56239-3
WG123139-10	LD		CVTSS	SALT WTR		09/19/12	09/19/12	L56392-1

WG123452

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56604-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/04/12	10/08/12	10/08/12	
L56608-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/04/12	10/08/12	10/08/12	
L56613-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/04/12	10/08/12	10/08/12	
L56613-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/04/12	10/08/12	10/08/12	
L56614-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/05/12	10/08/12	10/08/12	
L56614-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/05/12	10/08/12	10/08/12	
L56629-1	421422-CHGW-NP	SWD-CHGW-NP Cedar Hills Groundwater Non-Potable	CVTSS	GRND WTR	10/05/12	10/08/12	10/08/12	
L56679-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	10/04/12	10/08/12	10/08/12	
L56679-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	10/04/12	10/08/12	10/08/12	
L56679-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	10/04/12	10/08/12	10/08/12	
WG123452-1	MB		CVTSS	BLANK WTR		10/08/12	10/08/12	MB 10/8/12
WG123452-2	LCS		CVTSS	BLANK WTR		10/08/12	10/08/12	LEVEL1
WG123452-3	LD		CVTSS	FRESH WTR		10/08/12	10/08/12	L56679-2
WG123452-4	LD		CVTSS	GRND WTR		10/08/12	10/08/12	L56613-2

WG123975

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55434-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	10/31/12	11/05/12	11/05/12	SAMP
L55434-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	10/31/12	11/05/12	11/05/12	SAMP
L55434-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	10/31/12	11/05/12	11/05/12	FREP@L55434-2
L56321-9	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	10/30/12	11/05/12	11/05/12	
L56452-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/31/12	11/05/12	11/05/12	

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L56452-4	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/31/12	11/05/12	11/05/12	
L56706-5	421422-CHSW-P2	SWD-CHSW P - 2 Cedar Hills Surface Water Permit 2	CVTSS	FRESH WTR	10/30/12	11/05/12	11/05/12	
L56863-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/01/12	11/05/12	11/05/12	
L56863-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/01/12	11/05/12	11/05/12	
L56872-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/02/12	11/05/12	11/05/12	
L56879-1	421422-CHSW-P	SWD-CHSW P Cedar Hills Surface Water Permit	CVTSS	FRESH WTR	10/30/12	11/05/12	11/05/12	
L56881-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	BLANK WTR	10/31/12	11/05/12	11/05/12	
L56887-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/01/12	11/05/12	11/05/12	
L56888-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/02/12	11/05/12	11/05/12	
L56888-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/02/12	11/05/12	11/05/12	
L56888-5	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/02/12	11/05/12	11/05/12	
WG123975-1	MB		CVTSS	BLANK WTR		11/05/12	11/05/12	MB1 121105
WG123975-2	LCS		CVTSS	BLANK WTR		11/05/12	11/05/12	LEVEL1
WG123975-3	LD		CVTSS	STORM WTR		11/05/12	11/05/12	L55434-2
WG123975-4	LD		CVTSS	FRESH WTR		11/05/12	11/05/12	L56321-9
WG123975-5	LD		CVTSS	GRND WTR		11/05/12	11/05/12	L56452-4

WG124311

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56807-1	421879-210	NPDES SW Monitoring	CVTSS	STORM WTR	11/23/12	11/26/12	11/26/12	
L56807-2	421879-210	NPDES SW Monitoring	CVTSS	STORM WTR	11/23/12	11/26/12	11/26/12	
L56994-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/19/12	11/26/12	11/26/12	
L57018-1	421092	West Point Grit Disposal/Hauling	CVTSS	STORM WTR	11/19/12	11/26/12	11/26/12	
L57018-2	421092	West Point Grit Disposal/Hauling	CVTSS	STORM WTR	11/19/12	11/26/12	11/26/12	
L57018-3	421092	West Point Grit Disposal/Hauling	CVTSS	STORM WTR	11/19/12	11/26/12	11/26/12	
WG124311-1	MB		CVTSS	BLANK WTR		11/26/12	11/26/12	MB 11/26/12
WG124311-2	LCS		CVTSS	BLANK WTR		11/26/12	11/26/12	LEVEL1
WG124311-3	LD		CVTSS	STORM WTR		11/26/12	11/26/12	L56994-1
WG124311-4	LD		CVTSS	STORM WTR		11/26/12	11/26/12	L56807-1
WG124311-5	LD		CVTSS	STORM WTR		11/26/12	11/26/12	L57018-3

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WG120085

MB:WG120085-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG120085-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	95	95		80--120

LD:WG120085-3 L55220-4 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-DUGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	27.2	27.2	0		0--25

LD:WG120085-4 L55283-3 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	35.2	34.4	2		0--25

LD:WG120085-5 L55231-5 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:422027 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	2	4	mg/L	19.6	18.4	6		0--25

WG120274

MB:WG120274-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG120274-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	97	97		80--120

LD:WG120274-3 L55272-1 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-PUGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	11	11.2	2		0--25

LD:WG120274-4 L55284-3 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	7.2	6.2	15		0--25

LD:WG120274-5 L55194-3 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:423589-030-1 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	4.9	4.9	0		0--25

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LD:WG120274-6 L55195-3 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:423589-030-1 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	20	mg/L	5.6	6.2			0--25

WG120467

MB:WG120467-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG120467-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	94	94		80--120

LD:WG120467-3 L55240-3 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-PUGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	53.4	54.2	1		0--25

LD:WG120467-4 L55356-7 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421422-VASW-2 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	2	4	mg/L	308	323	5		0--25

LD:WG120467-5 L55384-1 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	2	4	mg/L	66.4	69.6	5		0--25

WG123139

MB:WG123139-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG123139-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	94	94		80--120

LD:WG123139-3 L56385-7 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:422019 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	3.2	3	6		0--25

LD:WG123139-4 L56455-3 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-PUGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	46.6	47	1		0--25

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MB:WG123139-5 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG123139-6 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	87	87		80--120

LD:WG123139-7 L56431-1 Matrix: IW WTR Listtype:CVTSS Method:SM2540-D Project:421422-ENLS Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	10	20	mg/L	374	392	5		0--25

LD:WG123139-8 L56484-1 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	3.8	4.2	10		0--25

LD:WG123139-9 L56239-3 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421250ON Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	5.8	7	19		0--25

LD:WG123139-10 L56392-1 Matrix: SALT WTR Listtype:CVTSS Method:SM2540-D Project:421250OS Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	20	mg/L	6	6.4			0--25

WG123452

MB:WG123452-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG123452-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	84	84		80--120

LD:WG123452-3 L56679-2 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	5	5.2	4		0--25

LD:WG123452-4 L56613-2 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-CHGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	7.4	7.4	0		0--25

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WG123975

MB:WG123975-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG123975-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	111	111		80--120

LD:WG123975-3 L55434-2 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	6	5.8	3		0--25

LD:WG123975-4 L56321-9 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421422-CHSW-Q Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	155	152	2		0--25

LD:WG123975-5 L56452-4 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-CHGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	75.6	76.2	1		0--25

WG124311

MB:WG124311-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG124311-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	95	95		80--120

LD:WG124311-3 L56994-1 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	43.6	44.6	2		0--25

LD:WG124311-4 L56807-1 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:421879-210 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	73.6	69.4	6		0--25

LD:WG124311-5 L57018-3 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:421092 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1.4	2.9	mg/L	111	112	1		0--25

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WG117365

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L53926-1	421184-110	OCS-City of Enumclaw	MTICPMS	EFFLUENT	09/05/11	09/14/11	09/14/11	
L53926-3	421184-110	OCS-City of Enumclaw	MTICPMS	INFLUENT	09/05/11	09/14/11	09/14/11	
L54010-1	421184-100	OCS-City of Buckley	MTICPMS	EFFLUENT	09/12/11	09/14/11	09/14/11	
L54043-1	421422-VASW	SWD-VASW Vashon SW Qtrly	MTHARD-ICPMS	FRESH WTR	09/08/11	09/14/11	09/19/11	
L54043-1	421422-VASW	SWD-VASW Vashon SW Qtrly	MTICPMS	FRESH WTR	09/08/11	09/14/11	09/14/11	
L54043-3	421422-VASW	SWD-VASW Vashon SW Qtrly	MTHARD-ICPMS	FRESH WTR	09/08/11	09/14/11	09/19/11	
L54043-3	421422-VASW	SWD-VASW Vashon SW Qtrly	MTICPMS	FRESH WTR	09/08/11	09/14/11	09/14/11	
L54043-4	421422-VASW	SWD-VASW Vashon SW Qtrly	MTHARD-ICPMS	FRESH WTR	09/08/11	09/14/11	09/19/11	
L54043-4	421422-VASW	SWD-VASW Vashon SW Qtrly	MTICPMS	FRESH WTR	09/08/11	09/14/11	09/14/11	
L54090-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/06/11	09/14/11	09/14/11	
L54090-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/06/11	09/14/11	09/14/11	
L54090-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/06/11	09/14/11	09/14/11	
L54117-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/07/11	09/14/11	09/14/11	
L54117-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/07/11	09/14/11	09/14/11	
L54117-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/07/11	09/14/11	09/14/11	
L54117-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/07/11	09/14/11	09/14/11	
L54125-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/12/11	09/14/11	09/14/11	
L54125-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/12/11	09/14/11	09/14/11	
L54125-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/12/11	09/14/11	09/14/11	
WG117365-1	MB		MTHARD-ICPMS	BLANK WTR		09/14/11	09/19/11	METHOD BLANK
WG117365-1	MB		MTICPMS	BLANK WTR		09/14/11	09/14/11	METHOD BLANK
WG117365-2	SB		MTHARD-ICPMS	BLANK WTR		09/14/11	09/19/11	WG117365-1 MS-20
WG117365-2	SB		MTICPMS	BLANK WTR		09/14/11	09/14/11	WG117365-1 MS-20
WG117365-3	LD		MTHARD-ICPMS	FRESH WTR		09/14/11	09/19/11	L54043-1 RPD-LIQ
WG117365-3	LD		MTICPMS	FRESH WTR		09/14/11	09/14/11	L54043-1 RPD-LIQ
WG117365-4	MS		MTHARD-ICPMS	FRESH WTR		09/14/11	09/19/11	L54043-1 MS-20
WG117365-4	MS		MTICPMS	FRESH WTR		09/14/11	09/14/11	L54043-1 MS-20

WG117467

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L53996-1	423258-400	Reclaimed Water Soil Cove-GW 2011	MTHARD-ICPMS	OTHR WTR	08/16/11	09/20/11	09/27/11	
L53996-1	423258-400	Reclaimed Water Soil Cove-GW 2011	MTICPMS	OTHR WTR	08/16/11	09/20/11	09/26/11	
L53996-2	423258-400	Reclaimed Water Soil Cove-GW 2011	MTHARD-ICPMS	OTHR WTR	08/16/11	09/20/11	09/27/11	
L53996-2	423258-400	Reclaimed Water Soil Cove-GW 2011	MTICPMS	OTHR WTR	08/16/11	09/20/11	09/26/11	
L53996-3	423258-400	Reclaimed Water Soil Cove-GW 2011	MTHARD-ICPMS	OTHR WTR	08/16/11	09/20/11	09/27/11	
L53996-3	423258-400	Reclaimed Water Soil Cove-GW 2011	MTICPMS	OTHR WTR	08/16/11	09/20/11	09/26/11	
L54076-1	421422-CHSW-Q	SWD-CHSW Q Cedar Hills SW Qtrly	MTHARD-ICPMS	FRESH WTR	09/19/11	09/20/11	09/27/11	

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L54076-1	421422-CHSW-Q	SWD-CHSW Q Cedar Hills SW Qtrly	MTICPMS	FRESH WTR	09/19/11	09/20/11	09/26/11	
L54106-1	421196-130	Roads Groundwater	MTICPMS	GRND WTR	09/19/11	09/20/11	09/26/11	
L54106-2	421196-130	Roads Groundwater	MTICPMS	GRND WTR	09/19/11	09/20/11	09/26/11	
L54106-3	421196-130	Roads Groundwater	MTICPMS	GRND WTR	09/19/11	09/20/11	09/26/11	
L54126-1	423589-320-4	CSO Basin Study	MTICPMS	SEWER WTR	09/13/11	09/20/11	09/26/11	
L54126-3	423589-320-4	CSO Basin Study	MTICPMS	SEWER WTR	09/13/11	09/20/11	09/26/11	
L54147-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/11	09/20/11	09/26/11	
L54147-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/11	09/20/11	09/26/11	
L54147-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/11	09/20/11	09/26/11	
L54147-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/11	09/20/11	09/26/11	
L54148-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/14/11	09/20/11	09/26/11	
L54148-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/14/11	09/20/11	09/26/11	
L54149-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/15/11	09/20/11	09/26/11	
L54149-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/15/11	09/20/11	09/26/11	
L54154-2	423589-320-4	CSO Basin Study	MTICPMS	SEWER WTR	09/14/11	09/20/11	09/26/11	
L54154-3	423589-320-4	CSO Basin Study	MTICPMS	SEWER WTR	09/14/11	09/20/11	09/26/11	
WG117467-1	MB		MTHARD-ICPMS	BLANK WTR		09/20/11	09/27/11	METHOD BLANK
WG117467-1	MB		MTICPMS	BLANK WTR		09/20/11	09/26/11	METHOD BLANK
WG117467-2	SB		MTHARD-ICPMS	BLANK WTR		09/20/11	09/27/11	WG117467-1 MS-20
WG117467-2	SB		MTICPMS	BLANK WTR		09/20/11	09/26/11	WG117467-1 MS-20
WG117467-3	LD		MTHARD-ICPMS	FRESH WTR		09/20/11	09/27/11	L54076-1 RPD-LIQ
WG117467-3	LD		MTICPMS	FRESH WTR		09/20/11	09/26/11	L54076-1 RPD-LIQ
WG117467-4	MS		MTHARD-ICPMS	FRESH WTR		09/20/11	09/27/11	L54076-1 MS-20
WG117467-4	MS		MTICPMS	FRESH WTR		09/20/11	09/26/11	L54076-1 MS-20

WG118904

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54628-1	421184-110	OCS-City of Enumclaw	MTICPMS	EFFLUENT	12/06/11	12/12/11	12/12/11	
L54628-3	421184-110	OCS-City of Enumclaw	MTICPMS	INFLUENT	12/06/11	12/12/11	12/12/11	
L54659-1	421195-260	Ravensdale Monthly GW	MTICPMS	GRND WTR	12/08/11	12/12/11	12/12/11	
L54681-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/16/11	12/12/11	12/12/11	
L54681-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/16/11	12/12/11	12/12/11	
L54681-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/16/11	12/12/11	12/12/11	
L54681-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/16/11	12/12/11	12/12/11	
L54714-6	421196-130	Roads Groundwater	MTICPMS	GRND WTR	12/07/11	12/12/11	12/12/11	
L54714-7	421196-130	Roads Groundwater	MTICPMS	GRND WTR	12/07/11	12/12/11	12/12/11	
L54714-8	421196-130	Roads Groundwater	MTICPMS	GRND WTR	12/08/11	12/12/11	12/12/11	
L54714-9	421196-130	Roads Groundwater	MTICPMS	GRND WTR	12/08/11	12/12/11	12/12/11	
L54714-10	421196-130	Roads Groundwater	MTICPMS	GRND WTR	12/08/11	12/12/11	12/12/11	
L54714-11	421196-130	Roads Groundwater	MTICPMS	GRND WTR	12/07/11	12/12/11	12/12/11	

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L54714-12	421196-130	Roads Groundwater	MTICPMS	GRND WTR	12/09/11	12/12/11	12/12/11	
L54714-13	421196-130	Roads Groundwater	MTICPMS	GRND WTR	12/09/11	12/12/11	12/12/11	
L54714-14	421196-130	Roads Groundwater	MTICPMS	GRND WTR	12/09/11	12/12/11	12/12/11	
L54714-15	421196-130	Roads Groundwater	MTICPMS	GRND WTR	12/09/11	12/12/11	12/12/11	
WG118904-1	MB		MTICPMS	BLANK WTR		12/12/11	12/12/11	METHOD BLANK
WG118904-2	SB		MTICPMS	BLANK WTR		12/12/11	12/12/11	WG118904-1 MS-20
WG118904-3	LD		MTICPMS	GRND WTR		12/12/11	12/12/11	L54714-6 RPD-LIQ
WG118904-4	MS		MTICPMS	GRND WTR		12/12/11	12/12/11	L54714-6 MS-20

WG119896

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54686-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	01/31/12	02/27/12	02/27/12	
L54686-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	01/31/12	02/27/12	02/27/12	
L54686-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	01/31/12	02/27/12	02/27/12	
L54686-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	01/31/12	02/27/12	02/27/12	
L54686-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	01/31/12	02/27/12	02/27/12	
L54686-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	01/31/12	02/27/12	02/27/12	
L55077-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	02/24/12	02/27/12	02/27/12	
L55077-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	02/24/12	02/27/12	02/27/12	
L55077-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	02/24/12	02/27/12	02/27/12	
L55077-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	02/24/12	02/27/12	02/27/12	
WG119896-1	MB		MTICPMS	BLANK WTR		02/27/12	02/27/12	METHOD BLANK
WG119896-2	SB		MTICPMS	BLANK WTR		02/27/12	02/27/12	WG119896-1 MS-20
WG119896-3	LD		MTICPMS	STORM WTR		02/27/12	02/27/12	L54686-1 RPD-LIQ
WG119896-4	MS		MTICPMS	STORM WTR		02/27/12	02/27/12	L54686-1 MS-20

WG120032

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54687-1	423589-320-4	CSO Basin Study	MTICPMS	STORM WTR	01/25/12	03/08/12	03/08/12	
L54687-2	423589-320-4	CSO Basin Study	MTICPMS	STORM WTR	01/25/12	03/08/12	03/08/12	
L54687-3	423589-320-4	CSO Basin Study	MTICPMS	STORM WTR	01/25/12	03/08/12	03/08/12	
L55011-1	423589-320-4	CSO Basin Study	MTICPMS	STORM WTR	02/29/12	03/08/12	03/08/12	
L55011-2	423589-320-4	CSO Basin Study	MTICPMS	STORM WTR	02/29/12	03/08/12	03/08/12	
L55011-3	423589-320-4	CSO Basin Study	MTICPMS	STORM WTR	02/29/12	03/08/12	03/08/12	
L55012-1	423589-320-4	CSO Basin Study	MTICPMS	SEWER WTR	02/15/12	03/08/12	03/08/12	
L55012-3	423589-320-4	CSO Basin Study	MTICPMS	SEWER WTR	02/15/12	03/08/12	03/08/12	
L55157-1	421190	Accreditation	MTICPMS	FRESH WTR	02/21/12	03/08/12	03/08/12	
L55177-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/05/12	03/08/12	03/08/12	
L55177-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/05/12	03/08/12	03/08/12	

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L55177-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/05/12	03/08/12	03/09/12	
L55177-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/05/12	03/08/12	03/08/12	
L55177-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/05/12	03/08/12	03/08/12	
L55186-1	423589-320-4	CSO Basin Study	MTICPMS	STORM WTR	02/29/12	03/08/12	03/08/12	
L55186-2	423589-320-4	CSO Basin Study	MTICPMS	STORM WTR	02/29/12	03/08/12	03/08/12	
L55186-3	423589-320-4	CSO Basin Study	MTICPMS	STORM WTR	02/29/12	03/08/12	03/08/12	
L55252-1	421155	Quality Assurance	MTICPMS	FRESH WTR	03/06/12	03/08/12	03/08/12	
WG120032-1	MB		MTICPMS	BLANK WTR		03/08/12	03/08/12	METHOD BLANK
WG120032-2	SB		MTICPMS	BLANK WTR		03/08/12	03/08/12	WG120032-1 MS-20
WG120032-3	LD		MTICPMS	STORM WTR		03/08/12	03/08/12	L54687-3 RPD-LIQ
WG120032-4	MS		MTICPMS	STORM WTR		03/08/12	03/08/12	L54687-3 MS-20

WG120431

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55283-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/10/12	04/02/12	04/03/12	
L55283-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/10/12	04/02/12	04/03/12	
L55283-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/10/12	04/02/12	04/03/12	
L55283-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/10/12	04/02/12	04/03/12	
L55283-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/10/12	04/02/12	04/03/12	
L55284-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55284-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55284-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55284-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55284-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55284-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55384-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/29/12	04/02/12	04/03/12	
L55384-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/29/12	04/02/12	04/03/12	
L55384-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/29/12	04/02/12	04/03/12	
L55384-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	03/29/12	04/02/12	04/03/12	FREP@L55384-3
WG120431-1	MB		MTICPMS	BLANK WTR		04/02/12	04/03/12	METHOD BLANK
WG120431-2	SB		MTICPMS	BLANK WTR		04/02/12	04/03/12	WG120431-1 MS-20
WG120431-3	LD		MTICPMS	STORM WTR		04/02/12	04/03/12	L55283-6 RPD-LIQ
WG120431-4	MS		MTICPMS	STORM WTR		04/02/12	04/03/12	L55283-6 MS-20

WG123352

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	

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L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	
WG123352-1	MB		MTICPMS	BLANK WTR		10/01/12	10/01/12	METHOD BLANK
WG123352-2	SB		MTICPMS	BLANK WTR		10/01/12	10/01/12	WG123352-1 MS-20
WG123352-3	LD		MTICPMS	FRESH WTR		10/01/12	10/01/12	L56484-4 RPD-LIQ
WG123352-4	MS		MTICPMS	FRESH WTR		10/01/12	10/01/12	L56484-4 MS-20

WG124307

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55434-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	10/31/12	11/26/12	11/26/12	SAMP
L55434-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	10/31/12	11/26/12	11/26/12	SAMP
L55434-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	10/31/12	11/26/12	11/26/12	FREP@L55434-2
L56881-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	BLANK WTR	10/31/12	11/26/12	11/26/12	Field Blank
L56994-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/19/12	11/26/12	11/26/12	
WG124307-1	MB		MTICPMS	BLANK WTR		11/26/12	11/26/12	METHOD BLANK
WG124307-2	SB		MTICPMS	BLANK WTR		11/26/12	11/26/12	WG124307-1 MS-20
WG124307-3	LD		MTICPMS	STORM WTR		11/26/12	11/26/12	L55434-1 RPD-LIQ
WG124307-4	MS		MTICPMS	STORM WTR		11/26/12	11/26/12	L55434-1 MS-20

WG124802

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56869-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
L56869-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
L56869-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
L56869-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
L56869-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
L56869-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
WG124802-1	MB		MTICPMS	BLANK WTR		12/26/12	12/26/12	METHOD BLANK
WG124802-2	SB		MTICPMS	BLANK WTR		12/26/12	12/26/12	WG124802-1 MS-20
WG124802-3	LD		MTICPMS	STORM WTR		12/26/12	12/26/12	L56869-1 RPD-LIQ
WG124802-4	MS		MTICPMS	STORM WTR		12/26/12	12/26/12	L56869-1 MS-20

WG117297

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L53821-1	421422-VAGW	SWD-VAGW Vashon GW Qtrly	MTICPMS-DISSL	GRND WTR	09/01/11	09/08/11	09/12/11	
L53821-2	421422-VAGW	SWD-VAGW Vashon GW Qtrly	MTICPMS-DISSL	GRND WTR	09/01/11	09/08/11	09/12/11	
L53936-3	421422-DUGW	SWD-VAGW Vashon GW Qtrly	MTICPMS-DISSL	GRND WTR	09/02/11	09/08/11	09/12/11	

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L53937-1	421422-CFSW	SWD-CFSW Cedar Falls SW Qtrly	MTICPMS-DISS	FRESH WTR	08/31/11	09/08/11	09/12/11	
L54037-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/01/11	09/08/11	09/12/11	
L54037-3	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/02/11	09/08/11	09/12/11	
L54043-1	421422-VASW	SWD-VASW Vashon SW Qtrly	MTICPMS-DISS	FRESH WTR	09/08/11	09/08/11	09/12/11	
L54043-3	421422-VASW	SWD-VASW Vashon SW Qtrly	MTICPMS-DISS	FRESH WTR	09/08/11	09/08/11	09/12/11	
L54043-4	421422-VASW	SWD-VASW Vashon SW Qtrly	MTICPMS-DISS	FRESH WTR	09/08/11	09/08/11	09/12/11	
L54053-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/01/11	09/08/11	09/12/11	
L54054-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/02/11	09/08/11	09/12/11	
L54054-3	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/02/11	09/08/11	09/12/11	
L54054-4	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/02/11	09/08/11	09/12/11	
L54054-5	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/02/11	09/08/11	09/12/11	
L54055-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/06/11	09/08/11	09/12/11	
L54055-3	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/06/11	09/08/11	09/12/11	
L54062-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/08/11	09/08/11	09/12/11	
L54090-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/06/11	09/08/11	09/12/11	
L54090-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/06/11	09/08/11	09/12/11	
L54090-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/06/11	09/08/11	09/12/11	
WG117297-1	MB		MTICPMS-DISS	BLANK WTR		09/08/11	09/12/11	METHOD BLANK
WG117297-2	SB		MTICPMS-DISS	BLANK WTR		09/08/11	09/12/11	WG117297-1 MS-20
WG117297-3	LD		MTICPMS-DISS	FRESH WTR		09/08/11	09/12/11	L53937-1 RPD-LIQ
WG117297-4	MS		MTICPMS-DISS	FRESH WTR		09/08/11	09/12/11	L53937-1 MS-20

WG117449

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54063-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/09/11	09/19/11	09/20/11	
L54063-3	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/13/11	09/19/11	09/20/11	
L54063-4	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/09/11	09/19/11	09/20/11	
L54065-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/12/11	09/19/11	09/20/11	
L54065-3	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/12/11	09/19/11	09/20/11	
L54072-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	09/12/11	09/19/11	09/20/11	
L54073-1	421422-HTGW	SWD-HTGW Houghton GW Qtrly	MTICPMS-DISS	GRND WTR	09/15/11	09/19/11	09/20/11	
L54073-3	421422-HTGW	SWD-HTGW Houghton GW Qtrly	MTICPMS-DISS	GRND WTR	09/15/11	09/19/11	09/20/11	
L54075-1	421422-HTGW	SWD-HTGW Houghton GW Qtrly	MTICPMS-DISS	GRND WTR	09/14/11	09/19/11	09/20/11	
L54125-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/12/11	09/19/11	09/20/11	
L54125-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/12/11	09/19/11	09/20/11	
L54125-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/12/11	09/19/11	09/20/11	
L54147-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/11	09/19/11	09/20/11	
L54147-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/11	09/19/11	09/20/11	
L54147-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/11	09/19/11	09/20/11	
L54147-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/11	09/19/11	09/20/11	

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L54148-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/14/11	09/19/11	09/20/11	
L54148-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/14/11	09/19/11	09/20/11	
L54149-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/15/11	09/19/11	09/20/11	
L54149-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/15/11	09/19/11	09/20/11	
WG117449-1	MB		MTICPMS-DISS	BLANK WTR		09/19/11	09/20/11	METHOD BLANK
WG117449-2	SB		MTICPMS-DISS	BLANK WTR		09/19/11	09/20/11	WG117449-1 MS-20
WG117449-3	LD		MTICPMS-DISS	GRND WTR		09/19/11	09/20/11	L54073-3 RPD-LIQ
WG117449-4	MS		MTICPMS-DISS	GRND WTR		09/19/11	09/20/11	L54073-3 MS-20

WG117646

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L53871-3	421422-CFGW	SWD-CFGW Cedar Falls GW Qtrly	MTICPMS-DISS	GRND WTR	09/21/11	09/27/11	09/27/11	
L54073-4	421422-HTGW	SWD-HTGW Houghton GW Qtrly	MTICPMS-DISS	GRND WTR	09/21/11	09/27/11	09/27/11	
L54073-5	421422-HTGW	SWD-HTGW Houghton GW Qtrly	MTICPMS-DISS	GRND WTR	09/19/11	09/27/11	09/27/11	
L54075-3	421422-HTGW	SWD-HTGW Houghton GW Qtrly	MTICPMS-DISS	GRND WTR	09/21/11	09/27/11	09/27/11	
L54076-1	421422-CHSW-Q	SWD-CHSW Q Cedar Hills SW Qtrly	MTICPMS-DISS	FRESH WTR	09/19/11	09/27/11	09/27/11	
L54076-2	421422-CHSW-M	SWD-CHSW M Cedar Hills SW Mthly	MTICPMS-DISS	FRESH WTR	09/26/11	09/27/11	09/27/11	
L54076-3	421422-CHSW-M	SWD-CHSW M Cedar Hills SW Mthly	MTICPMS-DISS	FRESH WTR	09/26/11	09/27/11	09/27/11	
L54079-1	421422-CFGW	SWD-CFGW Cedar Falls GW Qtrly	MTICPMS-DISS	GRND WTR	09/21/11	09/27/11	09/27/11	
L54081-1	421422-PUGW	SWD-PUGW Puyallup GW Qtrly	MTICPMS-DISS	GRND WTR	09/23/11	09/27/11	09/27/11	
L54083-1	421422-PUGW	SWD-PUGW Puyallup GW Qtrly	MTICPMS-DISS	GRND WTR	09/22/11	09/27/11	09/27/11	
L54083-3	421422-PUGW	SWD-PUGW Puyallup GW Qtrly	MTICPMS-DISS	GRND WTR	09/22/11	09/27/11	09/27/11	
L54084-1	421422-PUGW	SWD-PUGW Puyallup GW Qtrly	MTICPMS-DISS	GRND WTR	09/26/11	09/27/11	09/27/11	
L54084-3	421422-PUGW	SWD-PUGW Puyallup GW Qtrly	MTICPMS-DISS	GRND WTR	09/23/11	09/27/11	09/27/11	
L54117-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/07/11	09/27/11	09/27/11	
L54117-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/07/11	09/27/11	09/27/11	
L54117-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/07/11	09/27/11	09/27/11	
L54117-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/07/11	09/27/11	09/27/11	
L54174-2	423589-320-4	CSO Basin Study	MTICPMS-DISS	SEWER WTR	09/21/11	09/27/11	09/27/11	
WG117646-1	MB		MTICPMS-DISS	BLANK WTR		09/27/11	09/27/11	METHOD BLANK
WG117646-2	SB		MTICPMS-DISS	BLANK WTR		09/27/11	09/27/11	WG117646-1 MS-20
WG117646-3	LD		MTICPMS-DISS	FRESH WTR		09/27/11	09/27/11	L54076-2 RPD-LIQ
WG117646-4	MS		MTICPMS-DISS	FRESH WTR		09/27/11	09/27/11	L54076-2 MS-20

WG118907

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54556-1	421422-HOGW	SWD-HOGW Hobart GW Qtrly	MTICPMS-DISS	GRND WTR	12/05/11	12/12/11	12/12/11	
L54556-2	421422-HOGW	SWD-HOGW Hobart GW Qtrly	MTICPMS-DISS	GRND WTR	12/05/11	12/12/11	12/12/11	
L54556-5	421422-HOGW	SWD-HOGW Hobart GW Qtrly	MTICPMS-DISS	GRND WTR	12/06/11	12/12/11	12/12/11	

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L54556-6	421422-HOGW	SWD-HOGW Hobart GW Qtrly	MTICPMS-DISS	GRND WTR	12/06/11	12/12/11	12/12/11	
L54584-4	421422-HOGW	SWD-HOGW Hobart GW Qtrly	MTICPMS-DISS	GRND WTR	12/05/11	12/12/11	12/12/11	
L54681-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/16/11	12/12/11	12/12/11	
L54681-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/16/11	12/12/11	12/12/11	
L54681-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/16/11	12/12/11	12/12/11	
L54681-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/16/11	12/12/11	12/12/11	
L54703-3	421422-HOGW	SWD-HOGW Hobart GW Qtrly	MTICPMS-DISS	GRND WTR	12/02/11	12/12/11	12/12/11	
L54703-4	421422-HOGW	SWD-HOGW Hobart GW Qtrly	MTICPMS-DISS	GRND WTR	12/02/11	12/12/11	12/12/11	
L54705-1	421422-CHGW	SWD-CHGW Cedar Hills GW Qtrly	MTICPMS-DISS	GRND WTR	12/05/11	12/12/11	12/12/11	
L54705-3	421422-PUGW	SWD-PUGW Puyallup GW Qtrly	MTICPMS-DISS	GRND WTR	12/06/11	12/12/11	12/12/11	
L54706-4	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	12/07/11	12/12/11	12/12/11	
L54706-5	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	12/07/11	12/12/11	12/12/11	
L54708-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	12/08/11	12/12/11	12/12/11	
L54708-3	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	12/08/11	12/12/11	12/12/11	
L54709-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	12/08/11	12/12/11	12/12/11	
L54709-3	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	12/08/11	12/12/11	12/12/11	
L54709-4	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	12/08/11	12/12/11	12/12/11	
WG118907-1	MB		MTICPMS-DISS	BLANK WTR		12/12/11	12/12/11	METHOD BLANK
WG118907-2	SB		MTICPMS-DISS	BLANK WTR		12/12/11	12/12/11	WG118907-1 MS-20
WG118907-3	LD		MTICPMS-DISS	GRND WTR		12/12/11	12/12/11	L54556-1 RPD-LIQ
WG118907-4	MS		MTICPMS-DISS	GRND WTR		12/12/11	12/12/11	L54556-1 MS-20

WG119904

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54686-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	01/31/12	02/27/12	02/27/12	
L54686-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	01/31/12	02/27/12	02/27/12	
L54686-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	01/31/12	02/27/12	02/27/12	
L54686-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	01/31/12	02/27/12	02/27/12	
L54686-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	01/31/12	02/27/12	02/27/12	
L54686-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	01/31/12	02/27/12	02/27/12	
L55077-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	02/24/12	02/27/12	02/27/12	
L55077-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	02/24/12	02/27/12	02/27/12	
L55077-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	02/24/12	02/27/12	02/27/12	
L55077-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	02/24/12	02/27/12	02/27/12	
L55190-1	421155	Quality Assurance	MTICPMS-DISS	FILTER WTR	02/02/12	02/27/12	02/27/12	
WG119904-1	MB		MTICPMS-DISS	BLANK WTR		02/27/12	02/27/12	METHOD BLANK
WG119904-2	SB		MTICPMS-DISS	BLANK WTR		02/27/12	02/27/12	WG119904-1 MS-20
WG119904-3	LD		MTICPMS-DISS	STORM WTR		02/27/12	02/27/12	L54686-4 RPD-LIQ
WG119904-4	MS		MTICPMS-DISS	STORM WTR		02/27/12	02/27/12	L54686-4 MS-20
WG119904-5	MB		MTICPMS-DISS	BLANK WTR		02/27/12	02/27/12	ACID BLANK FOR L55190-1

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WG120037

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54687-1	423589-320-4	CSO Basin Study	MTICPMS-DISS	STORM WTR	01/25/12	03/08/12	03/08/12	
L54687-2	423589-320-4	CSO Basin Study	MTICPMS-DISS	STORM WTR	01/25/12	03/08/12	03/08/12	
L54687-3	423589-320-4	CSO Basin Study	MTICPMS-DISS	STORM WTR	01/25/12	03/08/12	03/08/12	
L55011-1	423589-320-4	CSO Basin Study	MTICPMS-DISS	STORM WTR	02/29/12	03/08/12	03/08/12	
L55011-2	423589-320-4	CSO Basin Study	MTICPMS-DISS	STORM WTR	02/29/12	03/08/12	03/08/12	
L55011-3	423589-320-4	CSO Basin Study	MTICPMS-DISS	STORM WTR	02/29/12	03/08/12	03/08/12	
L55012-1	423589-320-4	CSO Basin Study	MTICPMS-DISS	SEWER WTR	02/15/12	03/08/12	03/08/12	
L55012-3	423589-320-4	CSO Basin Study	MTICPMS-DISS	SEWER WTR	02/15/12	03/08/12	03/08/12	
L55177-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/05/12	03/08/12	03/08/12	
L55177-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/05/12	03/08/12	03/08/12	
L55177-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/05/12	03/08/12	03/08/12	
L55177-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/05/12	03/08/12	03/08/12	
L55177-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/05/12	03/08/12	03/08/12	
L55186-1	423589-320-4	CSO Basin Study	MTICPMS-DISS	STORM WTR	02/29/12	03/08/12	03/08/12	
L55186-2	423589-320-4	CSO Basin Study	MTICPMS-DISS	STORM WTR	02/29/12	03/08/12	03/08/12	
L55186-3	423589-320-4	CSO Basin Study	MTICPMS-DISS	STORM WTR	02/29/12	03/08/12	03/08/12	
WG120037-1	MB		MTICPMS-DISS	BLANK WTR		03/08/12	03/08/12	METHOD BLANK
WG120037-2	SB		MTICPMS-DISS	BLANK WTR		03/08/12	03/08/12	WG120037-1 MS-20
WG120037-3	LD		MTICPMS-DISS	SEWER WTR		03/08/12	03/08/12	L54687-3 RPD-LIQ
WG120037-4	MS		MTICPMS-DISS	SEWER WTR		03/08/12	03/08/12	L54687-3 MS-20

WG120089

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54928-1	421422-CHSW-Q	SWD-CHSW Q Cedar Hills SW Qtrly	MTICPMS-DISS	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55198-4	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	03/08/12	03/13/12	03/13/12	
L55219-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	03/08/12	03/13/12	03/13/12	
L55219-3	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	03/08/12	03/13/12	03/13/12	
L55219-4	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	03/08/12	03/13/12	03/13/12	
L55220-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	03/09/12	03/13/12	03/13/12	
L55220-3	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	03/09/12	03/13/12	03/13/12	
L55220-4	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	03/09/12	03/13/12	03/13/12	
L55223-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	MTICPMS-DISS	GRND WTR	03/12/12	03/13/12	03/13/12	
L55224-1	421422-CHSW-M	SWD-CHSW M Cedar Hills SW Mthly	MTICPMS-DISS	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55224-2	421422-CHSW-M	SWD-CHSW M Cedar Hills SW Mthly	MTICPMS-DISS	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55224-3	421422-CHSW-M	SWD-CHSW M Cedar Hills SW Mthly	MTICPMS-DISS	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55224-4	421422-CHSW-M	SWD-CHSW M Cedar Hills SW Mthly	MTICPMS-DISS	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55224-5	421422-CHSW-M	SWD-CHSW M Cedar Hills SW Mthly	MTICPMS-DISS	FRESH WTR	03/12/12	03/13/12	03/13/12	

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L55224-6	421422-CHSW-M	SWD-CHSW M Cedar Hills SW Mthly	MTICPMS-DISS	FRESH WTR	03/12/12	03/13/12	03/13/12	
L55283-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/10/12	03/13/12	03/13/12	
L55283-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/10/12	03/13/12	03/13/12	
L55283-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/10/12	03/13/12	03/13/12	
L55283-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/10/12	03/13/12	03/13/12	
L55283-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/10/12	03/13/12	03/13/12	
WG120089-1	MB		MTICPMS-DISS	BLANK WTR		03/13/12	03/13/12	METHOD BLANK
WG120089-2	SB		MTICPMS-DISS	BLANK WTR		03/13/12	03/13/12	WG120089-1 MS-20
WG120089-3	LD		MTICPMS-DISS	FRESH WTR		03/13/12	03/13/12	L54928-1 RPD-LIQ
WG120089-4	MS		MTICPMS-DISS	FRESH WTR		03/13/12	03/13/12	L54928-1 MS-20

WG120441

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55284-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55284-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55284-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55284-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55284-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55284-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/20/12	04/02/12	04/03/12	
L55384-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/29/12	04/02/12	04/03/12	
L55384-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/29/12	04/02/12	04/03/12	
L55384-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/29/12	04/02/12	04/03/12	
L55384-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	03/29/12	04/02/12	04/03/12	FREP@L55384-3
WG120441-1	MB		MTICPMS-DISS	BLANK WTR		04/02/12	04/03/12	METHOD BLANK
WG120441-2	SB		MTICPMS-DISS	BLANK WTR		04/02/12	04/03/12	WG120441-1 MS-20
WG120441-3	LD		MTICPMS-DISS	STORM WTR		04/02/12	04/03/12	L55384-4 RPD-LIQ
WG120441-4	MS		MTICPMS-DISS	STORM WTR		04/02/12	04/03/12	L55384-4 MS-20

WG123353

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
WG123353-1	MB		MTICPMS-DISS	BLANK WTR		10/01/12	10/01/12	METHOD BLANK
WG123353-2	SB		MTICPMS-DISS	BLANK WTR		10/01/12	10/01/12	WG123353-1 MS-20
WG123353-3	LD		MTICPMS-DISS	FRESH WTR		10/01/12	10/01/12	L56484-5 RPD-LIQ
WG123353-4	MS		MTICPMS-DISS	FRESH WTR		10/01/12	10/01/12	L56484-5 MS-20

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WG124364

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55434-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	10/31/12	11/28/12	11/28/12	SAMP
L55434-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	10/31/12	11/28/12	11/28/12	SAMP
L55434-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	10/31/12	11/28/12	11/28/12	FREP@L55434-2
L56881-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	BLANK WTR	10/31/12	11/28/12	11/28/12	Field Blank
L56994-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/19/12	11/28/12	11/28/12	
WG124364-1	MB		MTICPMS-DISS	BLANK WTR		11/28/12	11/28/12	METHOD BLANK
WG124364-2	SB		MTICPMS-DISS	BLANK WTR		11/28/12	11/28/12	WG124364-1 MS-20
WG124364-3	LD		MTICPMS-DISS	STORM WTR		11/28/12	11/28/12	L55434-1 RPD-LIQ
WG124364-4	MS		MTICPMS-DISS	STORM WTR		11/28/12	11/28/12	L55434-1 MS-20

WG124836

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56869-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	12/03/12	12/31/12	12/31/12	
L56869-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	12/03/12	12/31/12	12/31/12	
L56869-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	12/03/12	12/31/12	12/31/12	
L56869-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	12/03/12	12/31/12	12/31/12	
L56869-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	12/03/12	12/31/12	12/31/12	
L56869-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	12/03/12	12/31/12	12/31/12	
WG124836-1	MB		MTICPMS-DISS	BLANK WTR		12/31/12	12/31/12	METHOD BLANK
WG124836-2	SB		MTICPMS-DISS	BLANK WTR		12/31/12	12/31/12	WG124836-1 MS-20
WG124836-3	LD		MTICPMS-DISS	STORM WTR		12/31/12	12/31/12	L56869-1 RPD-LIQ
WG124836-4	MS		MTICPMS-DISS	STORM WTR		12/31/12	12/31/12	L56869-1 MS-20

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WG117365

MB:WG117365-1 Matrix: BLANK WTR Listtype:MTHARD-ICPMS Method:EPA 200.8/SW846 6020A*SM2340B Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Hardness, Calc	0.331	0.331	mg CaCO ₃ /L	<MDL	

MB:WG117365-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total, ICP-MS	0.1	0.5	ug/L	<MDL	
Sodium, Total, ICP-MS	100	100	ug/L	<MDL	
Magnesium, Total, ICP-MS	50	50	ug/L	<MDL	
Potassium, Total, ICP-MS	100	500	ug/L	<MDL	
Calcium, Total, ICP-MS	50	50	ug/L	<MDL	
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	<MDL	
Chromium, Total, ICP-MS	0.2	1	ug/L	<MDL	
Iron, Total, ICP-MS	10	50	ug/L	<MDL	
Manganese, Total, ICP-MS	0.1	0.5	ug/L	0.615	B
Cobalt, Total, ICP-MS	0.05	0.25	ug/L	<MDL	
Nickel, Total, ICP-MS	0.1	0.5	ug/L	<MDL	
Copper, Total, ICP-MS	0.4	2	ug/L	<MDL	
Zinc, Total, ICP-MS	0.5	2.5	ug/L	<MDL	
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	
Tin, Total, ICP-MS	0.3	1.5	ug/L	<MDL	
Antimony, Total, ICP-MS	0.3	1	ug/L	<MDL	
Barium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	
Thallium, Total, ICP-MS	0.04	0.2	ug/L	<MDL	
Lead, Total, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG117365-2 MB:WG117365-1 Matrix: BLANK WTR Listtype:MTHARD-ICPMS Method:EPA 200.8/SW846 6020A*SM2340B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Hardness, Calc	0.331	0.331	mg CaCO ₃ /L	<MDL	33.1	32.9	100		85--115

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SB:WG117365-2 MB:WG117365-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Beryllium, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.3	101		85--115
Sodium, Total, ICP-MS	100	100	ug/L	<MDL	5000	5030	101		85--115
Magnesium, Total, ICP-MS	50	50	ug/L	<MDL	5000	5100	102		85--115
Potassium, Total, ICP-MS	100	500	ug/L	<MDL	5000	4740	95		85--115
Calcium, Total, ICP-MS	50	50	ug/L	<MDL	5000	4780	96		85--115
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	<MDL	20	19.1	96		85--115
Chromium, Total, ICP-MS	0.2	1	ug/L	<MDL	20	20.3	102		85--115
Iron, Total, ICP-MS	10	50	ug/L	<MDL	5000	4970	99		85--115
Manganese, Total, ICP-MS	0.1	0.5	ug/L	0.615	20	20.4	99		85--115
Cobalt, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.2	101		85--115
Nickel, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.6	98		85--115
Copper, Total, ICP-MS	0.4	2	ug/L	<MDL	20	19	95		85--115
Zinc, Total, ICP-MS	0.5	2.5	ug/L	<MDL	20	19.7	98		85--115
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.1	96		85--115
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	20	19.1	95		85--115
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.9	105		85--115
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	19	95		85--115
Tin, Total, ICP-MS	0.3	1.5	ug/L	<MDL	20	20	100		85--115
Antimony, Total, ICP-MS	0.3	1	ug/L	<MDL	20	18.1	91		85--115
Barium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.9	105		85--115
Thallium, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	19.8	99		85--115
Lead, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.8	99		85--115

LD:WG117365-3 L54043-1 Matrix: FRESH WTR Listtype:MTHARD-ICPMS Method:EPA 200.8/SW846 6020A*SM2340B Project:421422-VASW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Hardness, Calc	0.331	0.331	mg CaCO ₃ /L	159	157	1		0--20

LD:WG117365-3 L54043-1 Matrix: FRESH WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:421422-VASW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Beryllium, Total, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20
Sodium, Total, ICP-MS	100	100	ug/L	10800	10500	2		0--20
Magnesium, Total, ICP-MS	50	50	ug/L	25000	24300	3		0--20
Potassium, Total, ICP-MS	100	500	ug/L	2210	2200	1		0--20
Calcium, Total, ICP-MS	50	50	ug/L	22500	22800	1		0--20
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	2.64	2.67	1		0--20
Chromium, Total, ICP-MS	0.2	1	ug/L	1.68	1.71	2		0--20

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Iron, Total, ICP-MS	10	50	ug/L	1730	1760	1	0-20
Manganese, Total, ICP-MS	0.1	0.5	ug/L	857	849	1	0-20
Cobalt, Total, ICP-MS	0.05	0.25	ug/L	0.525	0.533	1	0-20
Nickel, Total, ICP-MS	0.1	0.5	ug/L	3.61	3.61	0	0-20
Copper, Total, ICP-MS	0.4	2	ug/L	1.3	1.3		0-20
Zinc, Total, ICP-MS	0.5	2.5	ug/L	2.1	2.2		0-20
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	5.11	5.06	1	0-20
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	<MDL		0-20
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL		0-20
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	<MDL		0-20
Tin, Total, ICP-MS	0.3	1.5	ug/L	<MDL	<MDL		0-20
Antimony, Total, ICP-MS	0.3	1	ug/L	<MDL	<MDL		0-20
Barium, Total, ICP-MS	0.05	0.25	ug/L	13.2	13.6	2	0-20
Thallium, Total, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL		0-20
Lead, Total, ICP-MS	0.1	0.5	ug/L	0.736	0.745	1	0-20

MS:WG117365-4 L54043-1 Matrix: FRESH WTR Listtype:MTHARD-ICPMS Method:EPA 200.8/SW846 6020A*SM2340B Project:421422-VASW Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Hardness, Calc	0.331	0.331	mg CaCO ₃ /L	159	33.1	191		4xRule	75--125

MS:WG117365-4 L54043-1 Matrix: FRESH WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:421422-VASW Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Beryllium, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	21.5	108		75--125
Sodium, Total, ICP-MS	100	100	ug/L	10800	5000	16100	106		75--125
Magnesium, Total, ICP-MS	50	50	ug/L	25000	5000	29900		4xRule	75--125
Potassium, Total, ICP-MS	100	500	ug/L	2210	5000	7000	96		75--125
Calcium, Total, ICP-MS	50	50	ug/L	22500	5000	27300		4xRule	75--125
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	2.64	20	22.5	100		75--125
Chromium, Total, ICP-MS	0.2	1	ug/L	1.68	20	22.8	105		75--125
Iron, Total, ICP-MS	10	50	ug/L	1730	5000	6500	95		75--125
Manganese, Total, ICP-MS	0.1	0.5	ug/L	857	20	869		4xRule	75--125
Cobalt, Total, ICP-MS	0.05	0.25	ug/L	0.525	20	18.2	88		75--125
Nickel, Total, ICP-MS	0.1	0.5	ug/L	3.61	20	26.5	114		75--125
Copper, Total, ICP-MS	0.4	2	ug/L	1.3	20	21.2	99		75--125
Zinc, Total, ICP-MS	0.5	2.5	ug/L	2.1	20	22.5	102		75--125
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	5.11	20	26.4	107		75--125
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	20	19.5	98		75--125
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	21.4	107		75--125
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.2	96		75--125

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Tin, Total, ICP-MS	0.3	1.5	ug/L	<MDL	20	17.4	87	75--125
Antimony, Total, ICP-MS	0.3	1	ug/L	<MDL	20	18.1	90	75--125
Barium, Total, ICP-MS	0.05	0.25	ug/L	13.2	20	35.1	109	75--125
Thallium, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	19.7	99	75--125
Lead, Total, ICP-MS	0.1	0.5	ug/L	0.736	20	20.5	99	75--125

WG117467

MB:WG117467-1 Matrix: BLANK WTR Listtype:MTHARD-ICPMS Method:EPA 200.8/SW846 6020A*SM2340B Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Hardness, Calc	0.331	0.331	mg CaCO ₃ /L	<MDL	

MB:WG117467-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Total, ICP-MS	0.1	0.5	ug/L	<MDL	
Sodium, Total, ICP-MS	100	100	ug/L	<MDL	
Magnesium, Total, ICP-MS	50	50	ug/L	<MDL	
Aluminum, Total, ICP-MS	2	10	ug/L	<MDL	
Potassium, Total, ICP-MS	100	500	ug/L	<MDL	
Calcium, Total, ICP-MS	50	50	ug/L	<MDL	
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	<MDL	
Chromium, Total, ICP-MS	0.2	1	ug/L	<MDL	
Iron, Total, ICP-MS	10	50	ug/L	<MDL	
Manganese, Total, ICP-MS	0.1	0.5	ug/L	<MDL	
Cobalt, Total, ICP-MS	0.05	0.25	ug/L	<MDL	
Nickel, Total, ICP-MS	0.1	0.5	ug/L	<MDL	
Copper, Total, ICP-MS	0.4	2	ug/L	<MDL	
Zinc, Total, ICP-MS	0.5	2.5	ug/L	<MDL	
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	
Tin, Total, ICP-MS	0.3	1.5	ug/L	<MDL	
Antimony, Total, ICP-MS	0.3	1	ug/L	<MDL	
Barium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	
Thallium, Total, ICP-MS	0.04	0.2	ug/L	<MDL	
Lead, Total, ICP-MS	0.1	0.5	ug/L	<MDL	

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

SB:WG117467-2 MB:WG117467-1 Matrix: BLANK WTR Listtype:MTHARD-ICPMS Method:EPA 200.8/SW846 6020A*SM2340B Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Hardness, Calc	0.331	0.331	mg CaCO ₃ /L	<MDL	33.1	34.3	104		85--115

SB:WG117467-2 MB:WG117467-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Beryllium, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.6	103		85--115
Sodium, Total, ICP-MS	100	100	ug/L	<MDL	5000	5350	107		85--115
Magnesium, Total, ICP-MS	50	50	ug/L	<MDL	5000	5320	106		85--115
Aluminum, Total, ICP-MS	2	10	ug/L	<MDL	20	22.2	111		85--115
Potassium, Total, ICP-MS	100	500	ug/L	<MDL	5000	4960	99		85--115
Calcium, Total, ICP-MS	50	50	ug/L	<MDL	5000	4960	99		85--115
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	<MDL	20	20.3	102		85--115
Chromium, Total, ICP-MS	0.2	1	ug/L	<MDL	20	19.1	96		85--115
Iron, Total, ICP-MS	10	50	ug/L	<MDL	5000	5110	102		85--115
Manganese, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.8	104		85--115
Cobalt, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.5	98		85--115
Nickel, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.3	102		85--115
Copper, Total, ICP-MS	0.4	2	ug/L	<MDL	20	20.1	101		85--115
Zinc, Total, ICP-MS	0.5	2.5	ug/L	<MDL	20	19.5	98		85--115
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.9	99		85--115
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	20	20.3	102		85--115
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.9	105		85--115
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.6	98		85--115
Tin, Total, ICP-MS	0.3	1.5	ug/L	<MDL	20	20.3	102		85--115
Antimony, Total, ICP-MS	0.3	1	ug/L	<MDL	20	20.2	101		85--115
Barium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	19	95		85--115
Thallium, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	21	105		85--115
Lead, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.9	104		85--115

LD:WG117467-3 L54076-1 Matrix: FRESH WTR Listtype:MTHARD-ICPMS Method:EPA 200.8/SW846 6020A*SM2340B Project:421422-CHSW-Q Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Hardness, Calc	0.331	0.331	mg CaCO ₃ /L	39.7	39	2		0--20

LD:WG117467-3 L54076-1 Matrix: FRESH WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:421422-CHSW-Q Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Beryllium, Total, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20

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Sodium, Total, ICP-MS	100	100	ug/L	6430	6230	3	0-20
Magnesium, Total, ICP-MS	50	50	ug/L	3420	3380	1	0-20
Aluminum, Total, ICP-MS	2	10	ug/L	269	267	1	0-20
Potassium, Total, ICP-MS	100	500	ug/L	3320	3320	0	0-20
Calcium, Total, ICP-MS	50	50	ug/L	10300	10000	2	0-20
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	1.26	1.23	3	0-20
Chromium, Total, ICP-MS	0.2	1	ug/L	0.74	0.72		0-20
Iron, Total, ICP-MS	10	50	ug/L	370	370	0	0-20
Manganese, Total, ICP-MS	0.1	0.5	ug/L	12.8	12.6	1	0-20
Cobalt, Total, ICP-MS	0.05	0.25	ug/L	0.19	0.19		0-20
Nickel, Total, ICP-MS	0.1	0.5	ug/L	2.73	2.74	0	0-20
Copper, Total, ICP-MS	0.4	2	ug/L	13	12.9	1	0-20
Zinc, Total, ICP-MS	0.5	2.5	ug/L	34.5	33.8	2	0-20
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.62	0.63	2	0-20
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	<MDL		0-20
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL		0-20
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	<MDL		0-20
Tin, Total, ICP-MS	0.3	1.5	ug/L	<MDL	<MDL		0-20
Antimony, Total, ICP-MS	0.3	1	ug/L	1.58	1.54	3	0-20
Barium, Total, ICP-MS	0.05	0.25	ug/L	13.6	13.2	2	0-20
Thallium, Total, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL		0-20
Lead, Total, ICP-MS	0.1	0.5	ug/L	0.912	0.914	0	0-20

MS:WG117467-4 L54076-1 Matrix: FRESH WTR Listtype:MTHARD-ICPMS Method:EPA 200.8/SW846 6020A*SM2340B Project:421422-CHSW-Q Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Hardness, Calc	0.331	0.331	mg CaCO ₃ /L	39.7	33.1	74.5	105		75--125

MS:WG117467-4 L54076-1 Matrix: FRESH WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:421422-CHSW-Q Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Beryllium, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	21	105		75--125
Sodium, Total, ICP-MS	100	100	ug/L	6430	5000	12200	116		75--125
Magnesium, Total, ICP-MS	50	50	ug/L	3420	5000	8740	106		75--125
Aluminum, Total, ICP-MS	2	10	ug/L	269	20	283		4xRule	75--125
Potassium, Total, ICP-MS	100	500	ug/L	3320	5000	8470	103		75--125
Calcium, Total, ICP-MS	50	50	ug/L	10300	5000	15400	103		75--125
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	1.26	20	22.5	106		75--125
Chromium, Total, ICP-MS	0.2	1	ug/L	0.74	20	20.5	99		75--125
Iron, Total, ICP-MS	10	50	ug/L	370	5000	5620	105		75--125
Manganese, Total, ICP-MS	0.1	0.5	ug/L	12.8	20	34.2	107		75--125

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

Cobalt, Total, ICP-MS	0.05	0.25	ug/L	0.19	20	19.9	98	75--125
Nickel, Total, ICP-MS	0.1	0.5	ug/L	2.73	20	24.5	109	75--125
Copper, Total, ICP-MS	0.4	2	ug/L	13	20	35	110	75--125
Zinc, Total, ICP-MS	0.5	2.5	ug/L	34.5	20	54.4	99	75--125
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.62	20	21.4	104	75--125
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	20	20.4	102	75--125
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	21.6	108	75--125
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.1	100	75--125
Tin, Total, ICP-MS	0.3	1.5	ug/L	<MDL	20	19.4	97	75--125
Antimony, Total, ICP-MS	0.3	1	ug/L	1.58	20	21.8	101	75--125
Barium, Total, ICP-MS	0.05	0.25	ug/L	13.6	20	32.6	95	75--125
Thallium, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	21.3	107	75--125
Lead, Total, ICP-MS	0.1	0.5	ug/L	0.912	20	22	106	75--125

WG118904

MB:WG118904-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Chromium, Total, ICP-MS	0.2	1	ug/L	<MDL	
Nickel, Total, ICP-MS	0.1	0.5	ug/L	<MDL	
Copper, Total, ICP-MS	0.4	2	ug/L	<MDL	
Zinc, Total, ICP-MS	0.5	2.5	ug/L	<MDL	
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	
Lead, Total, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG118904-2 MB:WG118904-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Chromium, Total, ICP-MS	0.2	1	ug/L	<MDL	20	21.3	106		85--115
Nickel, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	22	110		85--115
Copper, Total, ICP-MS	0.4	2	ug/L	<MDL	20	21.8	109		85--115
Zinc, Total, ICP-MS	0.5	2.5	ug/L	<MDL	20	23	115		85--115
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	21.5	108		85--115
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	20	22.3	111		85--115
Lead, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	22	110		85--115

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

LD:WG118904-3 L54714-6 Matrix: GRND WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:421196-130 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Chromium, Total, ICP-MS	0.2	1	ug/L	0.9	0.91			0--20
Nickel, Total, ICP-MS	0.1	0.5	ug/L	0.893	0.918	3		0--20
Copper, Total, ICP-MS	0.4	2	ug/L	0.56	0.58			0--20
Zinc, Total, ICP-MS	0.5	2.5	ug/L	0.95	1.6			0--20
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.31	0.33			0--20
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	<MDL			0--20
Lead, Total, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20

MS:WG118904-4 L54714-6 Matrix: GRND WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:421196-130 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Chromium, Total, ICP-MS	0.2	1	ug/L	0.9	20	20.8	99		75--125
Nickel, Total, ICP-MS	0.1	0.5	ug/L	0.893	20	22.5	108		75--125
Copper, Total, ICP-MS	0.4	2	ug/L	0.56	20	21.7	106		75--125
Zinc, Total, ICP-MS	0.5	2.5	ug/L	0.95	20	22.1	106		75--125
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.31	20	20.9	103		75--125
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	20	20.7	104		75--125
Lead, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	21	105		75--125

WG119896

MB:WG119896-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG119896-2 MB:WG119896-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.5	103		85--115

LD:WG119896-3 L54686-1 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.53	0.577	8		0--20

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

MS:WG119896-4 L54686-1 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.53	20	19.9	97		75--125

WG120032

MB:WG120032-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	<MDL	
Chromium, Total, ICP-MS	0.2	1	ug/L	<MDL	
Nickel, Total, ICP-MS	0.1	0.5	ug/L	<MDL	
Copper, Total, ICP-MS	0.4	2	ug/L	<MDL	
Zinc, Total, ICP-MS	0.5	2.5	ug/L	<MDL	
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	
Lead, Total, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG120032-2 MB:WG120032-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	<MDL	20	20	100		85--115
Chromium, Total, ICP-MS	0.2	1	ug/L	<MDL	20	20.6	103		85--115
Nickel, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	21.6	108		85--115
Copper, Total, ICP-MS	0.4	2	ug/L	<MDL	20	22	110		85--115
Zinc, Total, ICP-MS	0.5	2.5	ug/L	<MDL	20	22.7	114		85--115
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	21.3	107		85--115
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.7	103		85--115
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	21.3	107		85--115
Lead, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	21.3	107		85--115

LD:WG120032-3 L54687-3 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-320-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	9.73	9.73	0		0--20
Chromium, Total, ICP-MS	0.2	1	ug/L	8.59	8.7	1		0--20
Nickel, Total, ICP-MS	0.1	0.5	ug/L	9.03	8.97	1		0--20
Copper, Total, ICP-MS	0.4	2	ug/L	34.5	34.7	1		0--20
Zinc, Total, ICP-MS	0.5	2.5	ug/L	170	169	1		0--20

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

Arsenic, Total, ICP-MS	0.1	0.5	ug/L	2.06	2.08	1	0-20
Silver, Total, ICP-MS	0.04	0.2	ug/L	0.19	0.18		0-20
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	0.363	0.368	1	0-20
Lead, Total, ICP-MS	0.1	0.5	ug/L	29.7	30	1	0-20

MS:WG120032-4 L54687-3 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-320-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	9.73	20	28.7	95		75--125
Chromium, Total, ICP-MS	0.2	1	ug/L	8.59	20	28.4	99		75--125
Nickel, Total, ICP-MS	0.1	0.5	ug/L	9.03	20	29.6	103		75--125
Copper, Total, ICP-MS	0.4	2	ug/L	34.5	20	55.1	103		75--125
Zinc, Total, ICP-MS	0.5	2.5	ug/L	170	20	187		4xRule	75--125
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	2.06	20	21.8	99		75--125
Silver, Total, ICP-MS	0.04	0.2	ug/L	0.19	20	20.5	101		75--125
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	0.363	20	21.2	104		75--125
Lead, Total, ICP-MS	0.1	0.5	ug/L	29.7	20	50.7	105		75--125

WG120431

MB:WG120431-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG120431-2 MB:WG120431-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.5	97		85--115

LD:WG120431-3 L55283-6 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.591	0.583	1		0-20

MS:WG120431-4 L55283-6 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.591	20	19.5	94		75--125

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

WG123352

MB:WG123352-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG123352-2 MB:WG123352-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.3	97		85--115

LD:WG123352-3 L56484-4 Matrix: FRESH WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.779	0.785	1		0--20

MS:WG123352-4 L56484-4 Matrix: FRESH WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.779	20	19.2	92		75--125

WG124307

MB:WG124307-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG124307-2 MB:WG124307-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.2	101		85--115

LD:WG124307-3 L55434-1 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.856	0.882	3		0--20

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

MS:WG124307-4 L55434-1 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.856	20	21.7	104		75--125

WG124802

MB:WG124802-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG124802-2 MB:WG124802-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19	95		85--115

LD:WG124802-3 L56869-1 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.793	0.774	2		0--20

MS:WG124802-4 L56869-1 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.793	20	19.7	94		75--125

WG117297

MB:WG117297-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	
Magnesium, Dissolved, ICP-MS	50	50	ug/L	<MDL	
Aluminum, Dissolved, ICP-MS	2	10	ug/L	<MDL	
Potassium, Dissolved, ICP-MS	100	500	ug/L	<MDL	
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL	
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL

SB:WG117297-2 MB:WG117297-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	21.9	109		85--115
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	5000	4990	100		85--115
Magnesium, Dissolved, ICP-MS	50	50	ug/L	<MDL	5000	4980	100		85--115
Aluminum, Dissolved, ICP-MS	2	10	ug/L	<MDL	20	20.3	101		85--115
Potassium, Dissolved, ICP-MS	100	500	ug/L	<MDL	5000	4910	98		85--115
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL	5000	4900	98		85--115
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	20	20.8	104		85--115
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	20	20.9	105		85--115
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	5000	5030	101		85--115
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.2	101		85--115
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.9	105		85--115
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.7	103		85--115
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	20	20.4	102		85--115
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	20	20.6	103		85--115
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.5	103		85--115
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	20	20.3	102		85--115
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	21.2	106		85--115
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.9	100		85--115
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL	20	20.2	101		85--115
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	20	19.7	98		85--115
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.5	97		85--115
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.1	101		85--115
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20	100		85--115

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

LD:WG117297-3 L53937-1 Matrix: FRESH WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-CFSW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20
Sodium, Dissolved, ICP-MS	100	100	ug/L	3960	4080	3		0--20
Magnesium, Dissolved, ICP-MS	50	50	ug/L	3080	3200	4		0--20
Aluminum, Dissolved, ICP-MS	2	10	ug/L	8.7	8.8			0--20
Potassium, Dissolved, ICP-MS	100	500	ug/L	410	410			0--20
Calcium, Dissolved, ICP-MS	50	50	ug/L	9030	9090	1		0--20
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	0.492	0.495	1		0--20
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	0.79	0.8			0--20
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	<MDL			0--20
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	1.73	1.71	1		0--20
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	<MDL			0--20
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	0.33	0.33			0--20
Copper, Dissolved, ICP-MS	0.4	2	ug/L	0.71	0.72			0--20
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	8.25	8.39	2		0--20
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.11	0.11			0--20
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	<MDL			0--20
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL			0--20
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	<MDL			0--20
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL	<MDL			0--20
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	<MDL			0--20
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	3.79	3.86	2		0--20
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL			0--20
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20

MS:WG117297-4 L53937-1 Matrix: FRESH WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-CFSW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	21.2	106		75--125
Sodium, Dissolved, ICP-MS	100	100	ug/L	3960	5000	8630	93		75--125
Magnesium, Dissolved, ICP-MS	50	50	ug/L	3080	5000	7590	90		75--125
Aluminum, Dissolved, ICP-MS	2	10	ug/L	8.7	20	26.9	91		75--125
Potassium, Dissolved, ICP-MS	100	500	ug/L	410	5000	5170	95		75--125
Calcium, Dissolved, ICP-MS	50	50	ug/L	9030	5000	13800	95		75--125
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	0.492	20	21.5	105		75--125
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	0.79	20	22.2	107		75--125
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	5000	4900	98		75--125
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	1.73	20	21.7	100		75--125
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	19	95		75--125

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	0.33	20	20.8	102	75--125
Copper, Dissolved, ICP-MS	0.4	2	ug/L	0.71	20	21.2	103	75--125
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	8.25	20	27	94	75--125
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.11	20	21.3	106	75--125
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	20	20.9	105	75--125
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.6	103	75--125
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.3	96	75--125
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL	20	19.3	97	75--125
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	20	19.1	96	75--125
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	3.79	20	22.5	93	75--125
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	19.6	98	75--125
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.2	96	75--125

WG117449

MB:WG117449-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	
Magnesium, Dissolved, ICP-MS	50	50	ug/L	<MDL	
Potassium, Dissolved, ICP-MS	100	500	ug/L	<MDL	
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL	
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

SB:WG117449-2 MB:WG117449-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	18.5	92		85--115
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	5000	5430	109		85--115
Magnesium, Dissolved, ICP-MS	50	50	ug/L	<MDL	5000	5720	114		85--115
Potassium, Dissolved, ICP-MS	100	500	ug/L	<MDL	5000	5500	110		85--115
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL	5000	5410	108		85--115
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	20	18.6	93		85--115
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	20	19.2	96		85--115
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	5000	4810	96		85--115
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	22.8	114		85--115
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.7	99		85--115
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.6	98		85--115
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	20	19.4	97		85--115
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	20	19.5	97		85--115
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19	95		85--115
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	20	19.2	96		85--115
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.3	101		85--115
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	18.9	95		85--115
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	20	19.1	95		85--115
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	18.9	95		85--115
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	19.9	100		85--115
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.9	100		85--115

LD:WG117449-3 L54073-3 Matrix: GRND WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-HTGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20
Sodium, Dissolved, ICP-MS	100	100	ug/L	7190	7150	1		0--20
Magnesium, Dissolved, ICP-MS	50	50	ug/L	13400	13500	1		0--20
Potassium, Dissolved, ICP-MS	100	500	ug/L	1550	1580	2		0--20
Calcium, Dissolved, ICP-MS	50	50	ug/L	22300	22400	1		0--20
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	2.39	2.4	0		0--20
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	1.9	1.88	1		0--20
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	<MDL			0--20
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	0.4	0.3			0--20
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	<MDL			0--20
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	2.82	2.83	1		0--20
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	<MDL			0--20
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	<MDL			0--20

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.34	0.34		0-20
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	0.57	<MDL		0-20
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL		0-20
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	<MDL		0-20
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	<MDL		0-20
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	7.03	7.61	8	0-20
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL		0-20
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL		0-20

MS:WG117449-4 L54073-3 Matrix: GRND WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-HTGW Pkey:STD

(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.6	98		75--125
Sodium, Dissolved, ICP-MS	100	100	ug/L	7190	5000	12400	105		75--125
Magnesium, Dissolved, ICP-MS	50	50	ug/L	13400	5000	19000	111		75--125
Potassium, Dissolved, ICP-MS	100	500	ug/L	1550	5000	7120	111		75--125
Calcium, Dissolved, ICP-MS	50	50	ug/L	22300	5000	28200		4xRule	75--125
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	2.39	20	21.1	94		75--125
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	1.9	20	21	96		75--125
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	5000	4690	94		75--125
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	0.4	20	17.5	85		75--125
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	16.9	85		75--125
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	2.82	20	24.5	109		75--125
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	20	21.7	109		75--125
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	20	19.9	99		75--125
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.34	20	21.5	106		75--125
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	0.57	20	21.6	105		75--125
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.2	101		75--125
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	18.3	92		75--125
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	20	18.7	93		75--125
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	7.03	20	25.3	92		75--125
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.2	101		75--125
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.3	101		75--125

WG117646

MB:WG117646-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	

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Magnesium, Dissolved, ICP-MS	50	50	ug/L	<MDL
Aluminum, Dissolved, ICP-MS	2	10	ug/L	<MDL
Potassium, Dissolved, ICP-MS	100	500	ug/L	<MDL
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL

SB:WG117646-2 MB:WG117646-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD

(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	21	105		85--115
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	5000	4840	97		85--115
Magnesium, Dissolved, ICP-MS	50	50	ug/L	<MDL	5000	5300	106		85--115
Aluminum, Dissolved, ICP-MS	2	10	ug/L	<MDL	20	21.9	110		85--115
Potassium, Dissolved, ICP-MS	100	500	ug/L	<MDL	5000	5090	102		85--115
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL	5000	4660	93		85--115
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	20	19.4	97		85--115
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	20	19.7	98		85--115
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	5000	4870	97		85--115
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.2	96		85--115
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.2	101		85--115
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.1	101		85--115
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	20	20.4	102		85--115
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	20	21	105		85--115
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.9	100		85--115
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	20	21.6	108		85--115

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	19.4	97	85--115
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.2	101	85--115
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL	20	19.9	99	85--115
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	20	19.9	99	85--115
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.4	97	85--115
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	19.3	96	85--115
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.4	102	85--115

LD:WG117646-3 L54076-2 Matrix: FRESH WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-CHSW-M Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20
Sodium, Dissolved, ICP-MS	100	100	ug/L	5240	5200	1		0--20
Magnesium, Dissolved, ICP-MS	50	50	ug/L	6330	6270	1		0--20
Aluminum, Dissolved, ICP-MS	2	10	ug/L	27.8	28.2	1		0--20
Potassium, Dissolved, ICP-MS	100	500	ug/L	1890	1890	0		0--20
Calcium, Dissolved, ICP-MS	50	50	ug/L	13900	13900	0		0--20
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	0.643	0.643	0		0--20
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	0.28	0.28			0--20
Iron, Dissolved, ICP-MS	10	50	ug/L	182	181	1		0--20
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	13.2	12.9	2		0--20
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	0.079	0.079			0--20
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	0.848	0.859	1		0--20
Copper, Dissolved, ICP-MS	0.4	2	ug/L	1.1	1.1			0--20
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	4.08	4	2		0--20
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.722	0.714	1		0--20
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	<MDL			0--20
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL			0--20
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	<MDL			0--20
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL	<MDL			0--20
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	<MDL			0--20
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	4.79	4.81	1		0--20
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL			0--20
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20

MS:WG117646-4 L54076-2 Matrix: FRESH WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-CHSW-M Pkey:STD

(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.9	105		75--125
Sodium, Dissolved, ICP-MS	100	100	ug/L	5240	5000	9970	95		75--125
Magnesium, Dissolved, ICP-MS	50	50	ug/L	6330	5000	12000	113		75--125

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

Aluminum, Dissolved, ICP-MS	2	10	ug/L	27.8	20	49.1	106	75--125
Potassium, Dissolved, ICP-MS	100	500	ug/L	1890	5000	7050	103	75--125
Calcium, Dissolved, ICP-MS	50	50	ug/L	13900	5000	18400	90	75--125
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	0.643	20	20.2	98	75--125
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	0.28	20	20.1	99	75--125
Iron, Dissolved, ICP-MS	10	50	ug/L	182	5000	5110	99	75--125
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	13.2	20	32	94	75--125
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	0.079	20	19.4	96	75--125
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	0.848	20	21	101	75--125
Copper, Dissolved, ICP-MS	0.4	2	ug/L	1.1	20	21.8	104	75--125
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	4.08	20	24.8	103	75--125
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.722	20	21.3	103	75--125
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	20	21.9	110	75--125
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	18.4	92	75--125
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.3	101	75--125
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL	20	20	100	75--125
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	20	20.4	102	75--125
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	4.79	20	24.7	100	75--125
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	19.3	97	75--125
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.6	103	75--125

WG118907

MB:WG118907-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	
Magnesium, Dissolved, ICP-MS	50	50	ug/L	<MDL	
Potassium, Dissolved, ICP-MS	100	500	ug/L	<MDL	
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL	
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	

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Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL

SB:WG118907-2 MB:WG118907-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.8	99		85--115
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	5000	4950	99		85--115
Magnesium, Dissolved, ICP-MS	50	50	ug/L	<MDL	5000	4870	97		85--115
Potassium, Dissolved, ICP-MS	100	500	ug/L	<MDL	5000	5260	105		85--115
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL	5000	4640	93		85--115
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	20	18.6	93		85--115
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	20	18.7	94		85--115
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	5000	4670	93		85--115
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.3	97		85--115
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.7	99		85--115
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20	100		85--115
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	20	19.6	98		85--115
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	20	21.6	108		85--115
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.7	98		85--115
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	20	21.9	110		85--115
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.6	103		85--115
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.2	101		85--115
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	20	19.4	97		85--115
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	18.8	94		85--115
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	19.3	96		85--115
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.1	96		85--115

LD:WG118907-3 L54556-1 Matrix: GRND WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-HOGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20
Sodium, Dissolved, ICP-MS	100	100	ug/L	1310	1300	1		0--20
Magnesium, Dissolved, ICP-MS	50	50	ug/L	1800	1790	1		0--20
Potassium, Dissolved, ICP-MS	100	500	ug/L	1320	1310	1		0--20
Calcium, Dissolved, ICP-MS	50	50	ug/L	6880	6950	1		0--20
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	<MDL			0--20

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	<MDL		0-20
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	<MDL		0-20
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	109	109	0	0-20
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	0.075	0.072		0-20
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	0.22	0.21		0-20
Copper, Dissolved, ICP-MS	0.4	2	ug/L	1.5	1.3		0-20
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	2	<MDL		0-20
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL		0-20
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	<MDL		0-20
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL		0-20
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	<MDL		0-20
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	<MDL		0-20
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	1.52	1.53	1	0-20
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL		0-20
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL		0-20

MS:WG118907-4 L54556-1 Matrix: GRND WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-HOGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.1	100		75--125
Sodium, Dissolved, ICP-MS	100	100	ug/L	1310	5000	6380	102		75--125
Magnesium, Dissolved, ICP-MS	50	50	ug/L	1800	5000	6800	100		75--125
Potassium, Dissolved, ICP-MS	100	500	ug/L	1320	5000	6680	107		75--125
Calcium, Dissolved, ICP-MS	50	50	ug/L	6880	5000	11700	97		75--125
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	20	18.9	95		75--125
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	20	19	95		75--125
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	5000	4790	96		75--125
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	109	20	130		4xRule	75--125
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	0.075	20	19.3	96		75--125
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	0.22	20	20.7	102		75--125
Copper, Dissolved, ICP-MS	0.4	2	ug/L	1.5	20	21.4	100		75--125
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	2	20	21.9	100		75--125
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.3	101		75--125
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	20	22.7	113		75--125
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.7	103		75--125
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.5	103		75--125
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	20	19.6	98		75--125
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	1.52	20	20.5	95		75--125
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	19.7	99		75--125
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.4	97		75--125

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

WG119904

MB:WG119904-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG119904-2 MB:WG119904-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.1	101		85--115

LD:WG119904-3 L54686-4 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.46	0.42			0--20

MS:WG119904-4 L54686-4 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.46	20	21	103		75--125

MB:WG119904-5 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	

WG120037

MB:WG120037-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

SB:WG120037-2 MB:WG120037-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	20	21	105		85--115
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	20	21.1	106		85--115
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	21.3	106		85--115
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	20	21.3	106		85--115
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	20	20.5	102		85--115
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	21	105		85--115
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.1	100		85--115
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	21.3	106		85--115
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	21	105		85--115

LD:WG120037-3 L54687-3 Matrix: SEWER WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-320-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	1.34	1.34	0		0--20
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	1.25	1.24	0		0--20
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	1.26	1.26	0		0--20
Copper, Dissolved, ICP-MS	0.4	2	ug/L	6.28	6.26	0		0--20
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	22.5	22.2	2		0--20
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.766	0.763	0		0--20
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL			0--20
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	0.057	0.061			0--20
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	0.48	0.49			0--20

MS:WG120037-4 L54687-3 Matrix: SEWER WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-320-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	1.34	20	22.1	104		75--125
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	1.25	20	22	104		75--125
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	1.26	20	22.2	105		75--125
Copper, Dissolved, ICP-MS	0.4	2	ug/L	6.28	20	27.2	104		75--125
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	22.5	20	42.4	99		75--125
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.766	20	21.7	105		75--125
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	20	100		75--125
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	0.057	20	20.8	104		75--125
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	0.48	20	21	103		75--125

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

WG120089

MB:WG120089-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	
Magnesium, Dissolved, ICP-MS	50	50	ug/L	<MDL	
Aluminum, Dissolved, ICP-MS	2	10	ug/L	<MDL	
Potassium, Dissolved, ICP-MS	100	500	ug/L	<MDL	
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL	
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL	
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG120089-2 MB:WG120089-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD

(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	18.7	93		85--115
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	5000	5070	101		85--115
Magnesium, Dissolved, ICP-MS	50	50	ug/L	<MDL	5000	4880	98		85--115
Aluminum, Dissolved, ICP-MS	2	10	ug/L	<MDL	20	21.5	108		85--115
Potassium, Dissolved, ICP-MS	100	500	ug/L	<MDL	5000	5040	101		85--115
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL	5000	4990	100		85--115
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	<MDL	20	20.3	101		85--115
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	<MDL	20	20.6	103		85--115
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	5000	4800	96		85--115

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.5	103	85--115
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.2	101	85--115
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.6	103	85--115
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	20	21.9	109	85--115
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	20	20.5	102	85--115
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.5	103	85--115
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	20	20.5	102	85--115
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	21.2	106	85--115
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	20	100	85--115
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL	20	20.4	102	85--115
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	20	20.1	101	85--115
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	20	100	85--115
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.2	101	85--115
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.3	102	85--115

LD:WG120089-3 L54928-1 Matrix: FRESH WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-CHSW-Q Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20
Sodium, Dissolved, ICP-MS	100	100	ug/L	7530	7540	0		0--20
Magnesium, Dissolved, ICP-MS	50	50	ug/L	2380	2350	1		0--20
Aluminum, Dissolved, ICP-MS	2	10	ug/L	18.1	18.3	2		0--20
Potassium, Dissolved, ICP-MS	100	500	ug/L	1190	1090	9		0--20
Calcium, Dissolved, ICP-MS	50	50	ug/L	13400	13400	0		0--20
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	0.34	0.36			0--20
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	0.43	0.45			0--20
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	<MDL			0--20
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	0.793	0.686	14		0--20
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	<MDL			0--20
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	0.32	0.31			0--20
Copper, Dissolved, ICP-MS	0.4	2	ug/L	1.3	1.4			0--20
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	2	1.7			0--20
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.14	0.14			0--20
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	<MDL			0--20
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL			0--20
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	<MDL			0--20
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL	<MDL			0--20
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	<MDL			0--20
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	5.16	5.12	1		0--20
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	<MDL			0--20
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

MS:WG120089-4 L54928-1 Matrix: FRESH WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-CHSW-Q Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Beryllium, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	17.5	87		75--125
Sodium, Dissolved, ICP-MS	100	100	ug/L	7530	5000	12500	100		75--125
Magnesium, Dissolved, ICP-MS	50	50	ug/L	2380	5000	7310	99		75--125
Aluminum, Dissolved, ICP-MS	2	10	ug/L	18.1	20	38.8	103		75--125
Potassium, Dissolved, ICP-MS	100	500	ug/L	1190	5000	6240	101		75--125
Calcium, Dissolved, ICP-MS	50	50	ug/L	13400	5000	18800	106		75--125
Vanadium, Dissolved, ICP-MS	0.075	0.375	ug/L	0.34	20	21.2	104		75--125
Chromium, Dissolved, ICP-MS	0.2	1	ug/L	0.43	20	21.3	104		75--125
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	5000	4910	98		75--125
Manganese, Dissolved, ICP-MS	0.1	0.5	ug/L	0.793	20	21.8	105		75--125
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.6	103		75--125
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	0.32	20	21.2	104		75--125
Copper, Dissolved, ICP-MS	0.4	2	ug/L	1.3	20	23.5	111		75--125
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	2	20	22.6	103		75--125
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.14	20	22.1	110		75--125
Selenium, Dissolved, ICP-MS	0.5	1	ug/L	<MDL	20	22.5	112		75--125
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	21.2	106		75--125
Cadmium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	20.1	101		75--125
Tin, Dissolved, ICP-MS	0.3	1.5	ug/L	<MDL	20	20.5	102		75--125
Antimony, Dissolved, ICP-MS	0.3	1	ug/L	<MDL	20	20.7	103		75--125
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	5.16	20	25.7	102		75--125
Thallium, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.3	102		75--125
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.5	102		75--125

WG120441

MB:WG120441-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG120441-2 MB:WG120441-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19	95		85--115

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

LD:WG120441-3 L55384-4 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.46	0.45			0--20

MS:WG120441-4 L55384-4 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.46	20	19.7	96		75--125

WG123353

MB:WG123353-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG123353-2 MB:WG123353-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.5	98		85--115

LD:WG123353-3 L56484-5 Matrix: FRESH WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.663	0.671	1		0--20

MS:WG123353-4 L56484-5 Matrix: FRESH WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.663	20	20.7	100		75--125

WG124364

MB:WG124364-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	

LIMSView QC Report for Green River Water Samples - Data Validation for Total and Dissolved Arsenic

SB:WG124364-2 MB:WG124364-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.1	100		85--115

LD:WG124364-3 L55434-1 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.864	0.848	2		0--20

MS:WG124364-4 L55434-1 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.864	20	20.9	100		75--125

WG124836

MB:WG124836-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG124836-2 MB:WG124836-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.7	98		85--115

LD:WG124836-3 L56869-1 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.598	0.581	3		0--20

MS:WG124836-4 L56869-1 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.598	20	20.4	99		75--125

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WG117324

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54090-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/06/11	09/12/11	09/15/11	
L54090-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/06/11	09/12/11	09/15/11	
L54090-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/06/11	09/12/11	09/15/11	
L54117-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/07/11	09/12/11	09/15/11	
L54117-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/07/11	09/12/11	09/15/11	
L54117-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/07/11	09/12/11	09/15/11	
L54117-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/07/11	09/12/11	09/15/11	
WG117324-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		09/12/11	09/15/11	MB110912
WG117324-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		09/12/11	09/15/11	WG117324-1
WG117324-3	SBD		ORPAH-SIM-LVI-LL	BLANK WTR		09/12/11	09/15/11	WG117324-2 WG117324-1

WG117420

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54125-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/12/11	09/16/11	09/23/11	
L54125-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/12/11	09/16/11	09/23/11	
L54125-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/12/11	09/16/11	09/23/11	
L54147-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/11	09/16/11	09/23/11	
L54147-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/11	09/16/11	09/23/11	
L54147-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/11	09/16/11	09/23/11	
L54147-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/11	09/16/11	09/23/11	
L54148-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/14/11	09/16/11	09/23/11	
L54148-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/14/11	09/16/11	09/23/11	
L54149-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/15/11	09/16/11	09/26/11	
L54149-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/15/11	09/16/11	09/26/11	
WG117420-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		09/16/11	09/23/11	MB110916
WG117420-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		09/16/11	09/23/11	WG117420-1
WG117420-3	MS		ORPAH-SIM-LVI-LL	FRESH WTR		09/16/11	09/23/11	L54125-4
WG117420-4	MSD		ORPAH-SIM-LVI-LL	FRESH WTR		09/16/11	09/23/11	WG117420-3 L54125-4

WG118646

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54681-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/16/11	11/22/11	12/09/11	
L54681-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/16/11	11/22/11	12/09/11	
L54681-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/16/11	11/22/11	12/09/11	
L54681-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/16/11	11/22/11	12/09/11	
WG118646-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		11/22/11	12/09/11	MB111122

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WG118646-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		11/22/11	12/09/11	WG118646-1
WG118646-3	MS		ORPAH-SIM-LVI-LL	STORM WTR		11/22/11	12/09/11	L54681-1
WG118646-4	LD		ORPAH-SIM-LVI-LL	STORM WTR		11/22/11	12/09/11	L54681-3

WG119622

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L54686-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	01/31/12	02/06/12	02/17/12	
L54686-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	01/31/12	02/06/12	02/17/12	
L54686-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	01/31/12	02/06/12	02/17/12	
L54686-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	01/31/12	02/06/12	02/17/12	
L54686-5	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	01/31/12	02/06/12	02/17/12	
L54686-6	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	01/31/12	02/06/12	02/17/12	
WG119622-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		02/06/12	02/17/12	MB120206
WG119622-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		02/06/12	02/17/12	WG119622-1
WG119622-3	SBD		ORPAH-SIM-LVI-LL	BLANK WTR		02/06/12	02/17/12	WG119622-2 WG119622-1
WG119622-4	MS		ORPAH-SIM-LVI-LL	STORM WTR		02/06/12	02/17/12	L54686-1
WG119622-5	LD		ORPAH-SIM-LVI-LL	STORM WTR		02/06/12	02/17/12	L54686-2

WG119922

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55077-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	02/24/12	02/29/12	03/20/12	
L55077-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	02/24/12	02/29/12	03/20/12	
L55077-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	02/24/12	02/29/12	03/20/12	
L55077-6	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	02/24/12	02/29/12	03/20/12	
WG119922-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		02/29/12	03/20/12	MB12029
WG119922-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		02/29/12	03/20/12	WG119922-1
WG119922-3	SBD		ORPAH-SIM-LVI-LL	BLANK WTR		02/29/12	03/20/12	WG119922-2 WG119922-1
WG119922-4	MS		ORPAH-SIM-LVI-LL	STORM WTR		02/29/12	03/20/12	L55077-1
WG119922-5	LD		ORPAH-SIM-LVI-LL	STORM WTR		02/29/12	03/20/12	L55077-2

WG120056

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55177-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/05/12	03/12/12	03/23/12	
L55177-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/05/12	03/12/12	03/23/12	
L55177-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/05/12	03/12/12	03/23/12	
L55177-5	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/05/12	03/12/12	03/23/12	
L55177-6	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/05/12	03/12/12	03/23/12	
L55283-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/10/12	03/12/12	03/23/12	

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L55283-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/10/12	03/12/12	03/23/12	
L55283-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/10/12	03/12/12	03/23/12	
L55283-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/10/12	03/12/12	03/23/12	
L55283-6	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/10/12	03/12/12	03/23/12	
WG120056-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		03/12/12	03/23/12	MB120312
WG120056-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		03/12/12	03/23/12	WG120056-1
WG120056-3	SBD		ORPAH-SIM-LVI-LL	BLANK WTR		03/12/12	03/23/12	WG120056-2 WG120056-1
WG120056-4	MS		ORPAH-SIM-LVI-LL	STORM WTR		03/12/12	03/23/12	L55177-1
WG120056-5	LD		ORPAH-SIM-LVI-LL	STORM WTR		03/12/12	03/23/12	L55177-2

WG120336

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55284-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/20/12	03/27/12	04/06/12	
L55284-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/20/12	03/27/12	04/06/12	
L55284-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/20/12	03/27/12	04/06/12	
L55284-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/20/12	03/27/12	04/06/12	
L55284-5	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/20/12	03/27/12	04/06/12	
L55284-6	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/20/12	03/27/12	04/06/12	
WG120336-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		03/27/12	04/06/12	MB120327
WG120336-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		03/27/12	04/06/12	WG120336-1
WG120336-3	SBD		ORPAH-SIM-LVI-LL	BLANK WTR		03/27/12	04/06/12	WG120336-2 WG120336-1
WG120336-4	MS		ORPAH-SIM-LVI-LL	STORM WTR		03/27/12	04/06/12	L55284-1
WG120336-5	LD		ORPAH-SIM-LVI-LL	STORM WTR		03/27/12	04/06/12	L55284-2

WG120476

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55384-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/29/12	04/04/12	04/09/12	
L55384-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/29/12	04/04/12	04/09/12	
L55384-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/29/12	04/04/12	04/09/12	
L55384-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	03/29/12	04/04/12	04/09/12	FREP@L55384-3
WG120476-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		04/04/12	04/09/12	MB120404
WG120476-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		04/04/12	04/09/12	WG120476-1
WG120476-3	MS		ORPAH-SIM-LVI-LL	STORM WTR		04/04/12	04/09/12	L55384-1
WG120476-4	MSD		ORPAH-SIM-LVI-LL	STORM WTR		04/04/12	04/09/12	WG120476-3 L55384-1

WG123089

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	

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L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	
L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	
L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	
WG123089-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		09/17/12	09/20/12	MB120917
WG123089-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		09/17/12	09/20/12	WG123089-1
WG123089-3	MS		ORPAH-SIM-LVI-LL	FRESH WTR		09/17/12	09/20/12	L56484-2
WG123089-4	MSD		ORPAH-SIM-LVI-LL	FRESH WTR		09/17/12	09/20/12	WG123089-3 L56484-2

WG124037

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L55434-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	10/31/12	11/07/12	11/13/12	SAMP
L55434-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	10/31/12	11/07/12	11/13/12	SAMP
L55434-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	10/31/12	11/07/12	11/13/12	FREP@L55434-2
L56881-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	BLANK WTR	10/31/12	11/07/12	11/13/12	Field Blank
WG124037-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		11/07/12	11/13/12	MB121107
WG124037-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		11/07/12	11/13/12	WG124037-1
WG124037-3	SBD		ORPAH-SIM-LVI-LL	BLANK WTR		11/07/12	11/13/12	WG124037-2 WG124037-1
WG124037-4	MS		ORPAH-SIM-LVI-LL	STORM WTR		11/07/12	11/13/12	L55434-1

WG124302

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56994-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/19/12	11/25/12	11/28/12	
WG124302-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		11/25/12	11/28/12	MB121125
WG124302-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		11/25/12	11/28/12	WG124302-1
WG124302-3	MS		ORPAH-SIM-LVI-LL	STORM WTR		11/25/12	11/28/12	L56994-1
WG124302-4	MSD		ORPAH-SIM-LVI-LL	STORM WTR		11/25/12	11/28/12	WG124302-3 L56994-1

WG124534

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56869-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
L56869-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
L56869-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
L56869-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
L56869-5	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
L56869-6	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
WG124534-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		12/10/12	12/12/12	MB121210

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WG124534-2	SB	ORPAH-SIM-LVI-LL	BLANK WTR	12/10/12	12/12/12	WG124534-1
WG124534-3	MS	ORPAH-SIM-LVI-LL	STORM WTR	12/10/12	12/12/12	L56869-2
WG124534-4	MSD	ORPAH-SIM-LVI-LL	STORM WTR	12/10/12	12/12/12	WG124534-3 L56869-2

LIMSView QC Report for Green River Water Samples - Data Validation for PAHs

WG117324

MB:WG117324-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.001	0.01	ug/L	0.0011	B
2-Methylnaphthalene	0.00061	0.0061	ug/L	0.00062	B
Acenaphthylene	0.0005	0.0041	ug/L	<MDL	
Acenaphthene	0.0003	0.003	ug/L	<MDL	
Fluorene	0.0003	0.003	ug/L	<MDL	
Phenanthrene	0.00031	0.0031	ug/L	0.0013	B
Anthracene	0.0005	0.005	ug/L	<MDL	
Fluoranthene	0.00033	0.0033	ug/L	0.0005	B
Pyrene	0.00035	0.0035	ug/L	0.00042	B
Benzo(a)anthracene	0.0005	0.005	ug/L	<MDL	
Chrysene	0.0005	0.005	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.001	0.01	ug/L	<MDL	
Benzo(a)pyrene	0.001	0.01	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.0005	0.005	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.0007	0.007	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0006	0.006	ug/L	<MDL	
Total LPAHs	0.0003	0.003	ug/L	0.0024	
Total HPAHS	0.00033	0.0033	ug/L	0.00092	

SBD:WG117324-3 SB:WG117324-2 MB:WG117324-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Spiked Blank Duplicate, Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit	TrueValue	SBD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.001	0.01	ug/L	0.0011	0.1	0.0691	68		40--160	0.1	0.0754	74	9		0--40	
2-Methylnaphthalene	0.00061	0.0061	ug/L	0.00062	0.1	0.0666	66		40--160	0.1	0.0732	73	9		0--40	
Acenaphthylene	0.0005	0.0041	ug/L	<MDL	0.1	0.0822	82		40--160	0.1	0.0918	92	11		0--40	
Acenaphthene	0.0003	0.003	ug/L	<MDL	0.1	0.0726	73		40--160	0.1	0.0808	81	11		0--40	
Fluorene	0.0003	0.003	ug/L	<MDL	0.1	0.0757	76		40--160	0.1	0.0827	83	9		0--40	
Phenanthrene	0.00031	0.0031	ug/L	0.0013	0.1	0.0764	75		40--160	0.1	0.08	79	5		0--40	
Anthracene	0.0005	0.005	ug/L	<MDL	0.1	0.0717	72		40--160	0.1	0.0795	79	10		0--40	
Fluoranthene	0.00033	0.0033	ug/L	0.0005	0.1	0.0906	90		40--160	0.1	0.091	91	0		0--40	
Pyrene	0.00035	0.0035	ug/L	0.00042	0.1	0.0853	85		40--160	0.1	0.0915	91	7		0--40	
Benzo(a)anthracene	0.0005	0.005	ug/L	<MDL	0.1	0.0943	94		40--160	0.1	0.0958	96	2		0--40	
Chrysene	0.0005	0.005	ug/L	<MDL	0.1	0.0855	85		40--160	0.1	0.0875	87	2		0--40	
Benzo(b,j,k)fluoranthene	0.001	0.01	ug/L	<MDL	0.2	0.197	98		40--160	0.2	0.196	98	0		0--40	
Benzo(a)pyrene	0.001	0.01	ug/L	<MDL	0.1	0.0875	88		40--160	0.1	0.0871	87	0		0--40	
Indeno(1,2,3-Cd)Pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.0992	99		40--160	0.1	0.0951	95	4		0--40	

LIMSView QC Report for Green River Water Samples - Data Validation for PAHs

Dibenzo(a,h)anthracene	0.0007	0.007	ug/L	<MDL	0.1	0.101	101	40-160	0.1	0.0952	95	6	0--40
Benzo(g,h,i)perylene	0.0006	0.006	ug/L	<MDL	0.1	0.0979	98	40-160	0.1	0.0945	95	3	0--40
Surrogate: (Lab Limits)		2-Fluorobiphenyl	d14-Terphenyl										
L54090-1		40--160		40--160									
L54090-1		68		92									
L54090-2		70		88									
L54090-3		65		88									
L54117-1		69		91									
L54117-2		75		92									
L54117-3		68		91									
L54117-4		72		101									
WG117324-1		77		95									
WG117324-2		76		91									
WG117324-3		82		94									

WG117420

MB:WG117420-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.0011	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.00061	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	0.00016	B
Fluorene	0.00015	0.0015	ug/L	0.00022	B
Phenanthrene	0.00016	0.00155	ug/L	0.0011	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.00052	B
Pyrene	0.00018	0.00175	ug/L	0.00039	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	
Chrysene	0.00025	0.0025	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	
Total LPAHs	0.00015	0.0015	ug/L	0.00258	
Total HPAHS	0.00017	0.00165	ug/L	0.00091	

LIMSView QC Report for Green River Water Samples - Data Validation for PAHs

SB:WG117420-2 MB:WG117420-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.0011	0.1	0.0768	76		40--160
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.00061	0.1	0.074	73		40--160
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.0904	90		40--160
Acenaphthene	0.00015	0.0015	ug/L	0.00016	0.1	0.0805	80		40--160
Fluorene	0.00015	0.0015	ug/L	0.00022	0.1	0.0842	84		40--160
Phenanthrene	0.00016	0.00155	ug/L	0.0011	0.1	0.0801	79		40--160
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0761	76		40--160
Fluoranthene	0.00017	0.00165	ug/L	0.00052	0.1	0.0962	96		40--160
Pyrene	0.00018	0.00175	ug/L	0.00039	0.1	0.0954	95		40--160
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.099	99		40--160
Chrysene	0.00025	0.0025	ug/L	<MDL	0.1	0.0895	89		40--160
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	0.2	0.209	105		40--160
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.0879	88		40--160
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	0.1	0.103	103		40--160
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	0.1	0.106	106		40--160
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	0.1	0.0995	100		40--160

MSD:WG117420-4 MS:WG117420-3 L54125-4 Matrix: FRESH WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit	TrueValue	MSD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0065	0.0943	0.0578	54		40--160	0.0943	0.0605	57	5		0--40	
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.0022	0.0943	0.052	53		40--160	0.0943	0.0478	48	8		0--40	
Acenaphthylene	0.00024	0.00193	ug/L	0.00025	0.0943	0.064	68		40--160	0.0943	0.0605	64	6		0--40	
Acenaphthene	0.00014	0.00142	ug/L	0.0009	0.0943	0.0557	58		40--160	0.0943	0.053	55	5		0--40	
Fluorene	0.00014	0.00142	ug/L	0.00092	0.0943	0.0599	63		40--160	0.0943	0.0576	60	4		0--40	
Phenanthrene	0.00015	0.00146	ug/L	0.0018	0.0943	0.0669	69		40--160	0.0943	0.0618	64	8		0--40	
Anthracene	0.00024	0.00236	ug/L	<MDL	0.0943	0.07	74		40--160	0.0943	0.0651	69	7		0--40	
Fluoranthene	0.00016	0.00156	ug/L	0.00062	0.0943	0.0935	98		40--160	0.0943	0.087	92	7		0--40	
Pyrene	0.00017	0.00165	ug/L	<MDL	0.0943	0.0853	90		40--160	0.0943	0.0758	80	12		0--40	
Benzo(a)anthracene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0999	106		40--160	0.0943	0.0944	100	6		0--40	
Chrysene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0868	92		40--160	0.0943	0.0818	87	6		0--40	
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	<MDL	0.189	0.192	102		40--160	0.189	0.181	96	6		0--40	
Benzo(a)pyrene	0.00047	0.00472	ug/L	<MDL	0.0943	0.0981	104		40--160	0.0943	0.0924	98	6		0--40	
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	<MDL	0.0943	0.101	107		40--160	0.0943	0.0959	102	5		0--40	
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	<MDL	0.0943	0.103	109		40--160	0.0943	0.0985	104	4		0--40	
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	<MDL	0.0943	0.0971	103		40--160	0.0943	0.092	98	5		0--40	

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Surrogate: (Lab Limits)	2-Fluorobiphenyl 40--160	d14-Terphenyl 40--160
L54125-1	58	101
L54125-3	56	102
L54125-4	59	101
L54147-1	62	103
L54147-2	60	102
L54147-3	60	101
L54147-4	63	103
L54148-1	61	101
L54148-2	61	103
L54149-1	68	103
L54149-2	68	102
WG117420-1	83	104
WG117420-2	88	102
WG117420-3	61	103
WG117420-4	54	96

WG118646

MB:WG118646-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.0011	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.00052	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	0.00027	B
Fluorene	0.00015	0.0015	ug/L	0.00021	B
Phenanthrene	0.00016	0.00155	ug/L	0.0014	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.00064	B
Pyrene	0.00018	0.00175	ug/L	0.00054	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	
Chrysene	0.00025	0.0025	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	
Total LPAHs	0.00015	0.0015	ug/L	0.00298	
Total HPAHS	0.00017	0.00165	ug/L	0.00118	

LIMSView QC Report for Green River Water Samples - Data Validation for PAHs

SB:WG118646-2 MB:WG118646-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.0011	0.1	0.069	68		40--160
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.00052	0.1	0.0639	63		40--160
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.0713	71		40--160
Acenaphthene	0.00015	0.0015	ug/L	0.00027	0.1	0.0648	64		40--160
Fluorene	0.00015	0.0015	ug/L	0.00021	0.1	0.0703	70		40--160
Phenanthrene	0.00016	0.00155	ug/L	0.0014	0.1	0.0655	64		40--160
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0592	59		40--160
Fluoranthene	0.00017	0.00165	ug/L	0.00064	0.1	0.0929	92		40--160
Pyrene	0.00018	0.00175	ug/L	0.00054	0.1	0.0854	85		40--160
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0922	92		40--160
Chrysene	0.00025	0.0025	ug/L	<MDL	0.1	0.0822	82		40--160
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	0.2	0.197	99		40--160
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.0843	84		40--160
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	0.1	0.0995	99		40--160
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	0.1	0.104	104		40--160
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	0.1	0.0962	96		40--160

MS:WG118646-3 L54681-1 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0287	0.0943	0.0777	52		40--160
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.00715	0.0943	0.0695	66		40--160
Acenaphthylene	0.00024	0.00193	ug/L	0.0016	0.0943	0.0719	75		40--160
Acenaphthene	0.00014	0.00142	ug/L	0.00506	0.0943	0.0601	58		40--160
Fluorene	0.00014	0.00142	ug/L	0.00252	0.0943	0.0656	67		40--160
Phenanthrene	0.00015	0.00146	ug/L	0.00682	0.0943	0.0703	67		40--160
Anthracene	0.00024	0.00236	ug/L	0.0016	0.0943	0.0705	73		40--160
Fluoranthene	0.00016	0.00156	ug/L	0.0147	0.0943	0.106	97		40--160
Pyrene	0.00017	0.00165	ug/L	0.0149	0.0943	0.091	81		40--160
Benzo(a)anthracene	0.00024	0.00236	ug/L	0.00329	0.0943	0.0879	90		40--160
Chrysene	0.00024	0.00236	ug/L	0.00888	0.0943	0.0822	78		40--160
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	0.013	0.189	0.177	87		40--160
Benzo(a)pyrene	0.00047	0.00472	ug/L	0.00492	0.0943	0.0878	88		40--160
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	0.00466	0.0943	0.0871	87		40--160
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	0.0011	0.0943	0.0891	93		40--160
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	0.00676	0.0943	0.0835	81		40--160

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LD:WG118646-4 L54681-3 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.071	0.119	50	*	0--40
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.0032	0.00301	6		0--40
Acenaphthylene	0.00024	0.00193	ug/L	0.0011	0.00084			0--40
Acenaphthene	0.00014	0.00142	ug/L	0.0014	0.0014			0--40
Fluorene	0.00014	0.00142	ug/L	0.0013	0.001			0--40
Phenanthrene	0.00015	0.00146	ug/L	0.0026	0.00254	2		0--40
Anthracene	0.00024	0.00236	ug/L	0.0016	0.00063			0--40
Fluoranthene	0.00016	0.00156	ug/L	0.00308	0.00349	13		0--40
Pyrene	0.00017	0.00165	ug/L	0.00243	0.00266	9		0--40
Benzo(a)anthracene	0.00024	0.00236	ug/L	0.00071	0.0008			0--40
Chrysene	0.00024	0.00236	ug/L	0.0013	0.0016			0--40
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	0.0017	0.0022			0--40
Benzo(a)pyrene	0.00047	0.00472	ug/L	0.00075	0.0011			0--40
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	0.00052	0.00083			0--40
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	<MDL	<MDL			0--40
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	0.00073	0.0011			0--40

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	40--160	40--160
L54681-1	65	96
L54681-2	63	100
L54681-3	63	93
L54681-4	62	100
WG118646-1	84	107
WG118646-2	81	101
WG118646-3	78	97
WG118646-4	70	98

WG119622

MB:WG119622-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.00505	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0028	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	0.00054	B
Fluorene	0.00015	0.0015	ug/L	0.00063	B

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Phenanthrene	0.00016	0.00155	ug/L	0.00223	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.00058	B
Pyrene	0.00018	0.00175	ug/L	0.0007	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	
Chrysene	0.00025	0.0025	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	
Total LPAHs	0.00015	0.0015	ug/L	0.00845	
Total HPAHS	0.00017	0.00165	ug/L	0.00128	

SBD:WG119622-3 SB:WG119622-2 MB:WG119622-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
 (Spiked Blank Duplicate, Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit	TrueValue	SBD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.00505	0.1	0.0874	82		40--160	0.1	0.0854	80	2		0--40	
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0028	0.1	0.111	108		40--160	0.1	0.107	105	3		0--40	
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.0883	88		40--160	0.1	0.0835	84	6		0--40	
Acenaphthene	0.00015	0.0015	ug/L	0.00054	0.1	0.0942	94		40--160	0.1	0.0925	92	2		0--40	
Fluorene	0.00015	0.0015	ug/L	0.00063	0.1	0.0874	87		40--160	0.1	0.0848	84	3		0--40	
Phenanthrene	0.00016	0.00155	ug/L	0.00223	0.1	0.0921	90		40--160	0.1	0.0919	90	0		0--40	
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0706	71		40--160	0.1	0.0663	66	6		0--40	
Fluoranthene	0.00017	0.00165	ug/L	0.00058	0.1	0.0932	93		40--160	0.1	0.0945	94	1		0--40	
Pyrene	0.00018	0.00175	ug/L	0.0007	0.1	0.128	127		40--160	0.1	0.129	129	1		0--40	
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0969	97		40--160	0.1	0.0964	96	1		0--40	
Chrysene	0.00025	0.0025	ug/L	<MDL	0.1	0.0968	97		40--160	0.1	0.0976	98	1		0--40	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	0.2	0.189	94		40--160	0.2	0.191	95	1		0--40	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.0718	72		40--160	0.1	0.0678	68	6		0--40	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	0.1	0.086	86		40--160	0.1	0.0867	87	1		0--40	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	0.1	0.0889	89		40--160	0.1	0.0896	90	1		0--40	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	0.1	0.087	87		40--160	0.1	0.0879	88	1		0--40	

MS:WG119622-4 L54686-1 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Naphthalene	0.00048	0.00476	ug/L	0.0372	0.0952	0.0898	55		40--160
2-Methylnaphthalene	0.00029	0.0029	ug/L	0.00444	0.0952	0.0844	84		40--160
Acenaphthylene	0.00024	0.00195	ug/L	0.00066	0.0952	0.0679	71		40--160
Acenaphthene	0.00014	0.00143	ug/L	0.00079	0.0952	0.0682	71		40--160

LIMSView QC Report for Green River Water Samples - Data Validation for PAHs

Fluorene	0.00014	0.00143	ug/L	0.0011	0.0952	0.0763	79	40--160
Phenanthrene	0.00015	0.00148	ug/L	0.00332	0.0952	0.0797	80	40--160
Anthracene	0.00024	0.00238	ug/L	0.00046	0.0952	0.0647	67	40--160
Fluoranthene	0.00016	0.00157	ug/L	0.0013	0.0952	0.0931	96	40--160
Pyrene	0.00017	0.00167	ug/L	0.0016	0.0952	0.159	165 *	40--160
Benzo(a)anthracene	0.00024	0.00238	ug/L	<MDL	0.0952	0.0912	96	40--160
Chrysene	0.00024	0.00238	ug/L	0.00045	0.0952	0.0906	95	40--160
Benzo(b,j,k)fluoranthene	0.00048	0.00476	ug/L	0.0008	0.19	0.15	78	40--160
Benzo(a)pyrene	0.00048	0.00476	ug/L	<MDL	0.0952	0.0627	66	40--160
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00238	ug/L	<MDL	0.0952	0.0595	62	40--160
Dibenzo(a,h)anthracene	0.00033	0.00333	ug/L	<MDL	0.0952	0.0597	63	40--160
Benzo(g,h,i)perylene	0.00029	0.00286	ug/L	<MDL	0.0952	0.062	65	40--160

LD:WG119622-5 L54686-2 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0587	0.0176	108	*	0--40
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.00606	0.00566	7		0--40
Acenaphthylene	0.00024	0.00193	ug/L	0.0011	0.0011			0--40
Acenaphthene	0.00014	0.00142	ug/L	0.00156	0.00147	5		0--40
Fluorene	0.00014	0.00142	ug/L	0.00162	0.0014	17		0--40
Phenanthrene	0.00015	0.00146	ug/L	0.0047	0.00359	27		0--40
Anthracene	0.00024	0.00236	ug/L	0.001	0.00055			0--40
Fluoranthene	0.00016	0.00156	ug/L	0.00198	0.00204	3		0--40
Pyrene	0.00017	0.00165	ug/L	0.00261	0.00285	9		0--40
Benzo(a)anthracene	0.00024	0.00236	ug/L	0.00035	0.00036			0--40
Chrysene	0.00024	0.00236	ug/L	0.00078	0.00066			0--40
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	0.0011	0.0013			0--40
Benzo(a)pyrene	0.00047	0.00472	ug/L	<MDL	<MDL			0--40
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	<MDL	0.00026			0--40
Dibenzo(a,h)anthracene	0.00033	0.00333	ug/L	<MDL	<MDL			0--40
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	<MDL	0.00032			0--40

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	40--160	40--160
L54686-1	70	140
L54686-2	94	145
L54686-3	93	143
L54686-4	93	138
L54686-5	95	137
L54686-6	97	141

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WG119622-1	83	119
WG119622-2	87	121
WG119622-3	85	122
WG119622-4	71	147
WG119622-5	86	141

WG119922

MB:WG119922-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.0012	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.00056	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	0.00016	B
Fluorene	0.00015	0.0015	ug/L	0.00018	B
Phenanthrene	0.00016	0.00155	ug/L	0.0012	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.00045	B
Pyrene	0.00018	0.00175	ug/L	0.00044	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	
Chrysene	0.00025	0.0025	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	
Total LPAHs	0.00015	0.0015	ug/L	0.00274	
Total HPAHS	0.00017	0.00165	ug/L	0.00089	

SBD:WG119922-3 SB:WG119922-2 MB:WG119922-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Spiked Blank Duplicate, Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit	TrueValue	SBD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.0012	0.1	0.0644	63		40--160	0.1	0.076	75		17	0--40	
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.00056	0.1	0.0626	62		40--160	0.1	0.0756	75		19	0--40	
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.0837	84		40--160	0.1	0.0949	95		13	0--40	
Acenaphthene	0.00015	0.0015	ug/L	0.00016	0.1	0.0738	74		40--160	0.1	0.0834	83		12	0--40	
Fluorene	0.00015	0.0015	ug/L	0.00018	0.1	0.0886	88		40--160	0.1	0.1	100		12	0--40	
Phenanthrene	0.00016	0.00155	ug/L	0.0012	0.1	0.077	76		40--160	0.1	0.0842	83		9	0--40	
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0694	69		40--160	0.1	0.0781	78		12	0--40	
Fluoranthene	0.00017	0.00165	ug/L	0.00045	0.1	0.0995	99		40--160	0.1	0.105	104		5	0--40	

LIMSView QC Report for Green River Water Samples - Data Validation for PAHs

Pyrene	0.00018	0.00175	ug/L	0.00044	0.1	0.106	106	40--160	0.1	0.111	111	4	0--40
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0927	93	40--160	0.1	0.1	100	8	0--40
Chrysene	0.00025	0.0025	ug/L	<MDL	0.1	0.0886	89	40--160	0.1	0.0943	94	6	0--40
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	0.2	0.183	91	40--160	0.2	0.195	98	7	0--40
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.074	74	40--160	0.1	0.0791	79	7	0--40
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	0.1	0.0954	95	40--160	0.1	0.103	103	7	0--40
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	0.1	0.097	97	40--160	0.1	0.104	104	7	0--40
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	0.1	0.0961	96	40--160	0.1	0.103	103	7	0--40

MS:WG119922-4 L55077-1 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0501	0.0943	0.0666	17	*	40--160
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.0019	0.0943	0.0669	69		40--160
Acenaphthylene	0.00024	0.00193	ug/L	0.00054	0.0943	0.0837	88		40--160
Acenaphthene	0.00014	0.00142	ug/L	0.00046	0.0943	0.0696	73		40--160
Fluorene	0.00014	0.00142	ug/L	0.00067	0.0943	0.0906	95		40--160
Phenanthrene	0.00015	0.00146	ug/L	0.00209	0.0943	0.0714	73		40--160
Anthracene	0.00024	0.00236	ug/L	0.00028	0.0943	0.0754	80		40--160
Fluoranthene	0.00016	0.00156	ug/L	0.0012	0.0943	0.0911	95		40--160
Pyrene	0.00017	0.00165	ug/L	0.00099	0.0943	0.1	105		40--160
Benzo(a)anthracene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0913	97		40--160
Chrysene	0.00024	0.00236	ug/L	0.00043	0.0943	0.0844	89		40--160
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	0.00053	0.189	0.16	85		40--160
Benzo(a)pyrene	0.00047	0.00472	ug/L	<MDL	0.0943	0.0798	85		40--160
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	0.00026	0.0943	0.0813	86		40--160
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	<MDL	0.0943	0.0819	87		40--160
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	0.00029	0.0943	0.0854	90		40--160

LD:WG119922-5 L55077-2 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0446	0.00847	136	*	0--40
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.0025	0.0025			0--40
Acenaphthylene	0.00024	0.00193	ug/L	0.00079	0.0014			0--40
Acenaphthene	0.00014	0.00142	ug/L	0.00085	0.0023	92	*	0--40
Fluorene	0.00014	0.00142	ug/L	0.0008	0.00219	93	*	0--40
Phenanthrene	0.00015	0.00146	ug/L	0.00198	0.016	156	*	0--40
Anthracene	0.00024	0.00236	ug/L	0.00034	0.0048	174	*	0--40
Fluoranthene	0.00016	0.00156	ug/L	0.0015	0.0238	176	*	0--40
Pyrene	0.00017	0.00165	ug/L	0.0013	0.0285	182	*	0--40

LIMSView QC Report for Green River Water Samples - Data Validation for PAHs

Benzo(a)anthracene	0.00024	0.00236	ug/L	<MDL	0.0127	200	*	0--40
Chrysene	0.00024	0.00236	ug/L	0.00041	0.0134	188	*	0--40
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	<MDL	0.0158	200	*	0--40
Benzo(a)pyrene	0.00047	0.00472	ug/L	<MDL	0.00988	200	*	0--40
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	0.00032	0.00508	176	*	0--40
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	<MDL	0.0015			0--40
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	0.00038	0.00562	175	*	0--40

Surrogate: 2-Fluorobiphenyl d14-Terphenyl

(Lab Limits)	40--160	40--160
L55077-1	73	136
L55077-2	74	131
L55077-4	72	122
L55077-6	79	130
WG119922-1	71	131
WG119922-2	61	120
WG119922-3	77	125
WG119922-4	69	122
WG119922-5	82	124

WG120056

MB:WG120056-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.00087	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.00041	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	<MDL	
Fluorene	0.00015	0.0015	ug/L	<MDL	
Phenanthrene	0.00016	0.00155	ug/L	0.001	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.00035	B
Pyrene	0.00018	0.00175	ug/L	0.00033	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	
Chrysene	0.00025	0.0025	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	

LIMSView QC Report for Green River Water Samples - Data Validation for PAHs

Total LPAHs	0.00015	0.0015	ug/L	0.00187
Total HPAHS	0.00017	0.00165	ug/L	0.00068

SBD:WG120056-3 SB:WG120056-2 MB:WG120056-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Spiked Blank Duplicate, Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit	TrueValue	SBD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.00087	0.1	0.0784	78		40--160	0.1	0.0806	80		3		0--40
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.00041	0.1	0.0798	79		40--160	0.1	0.0807	80		1		0--40
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.0978	98		40--160	0.1	0.101	101		3		0--40
Acenaphthene	0.00015	0.0015	ug/L	<MDL	0.1	0.0826	83		40--160	0.1	0.0852	85		3		0--40
Fluorene	0.00015	0.0015	ug/L	<MDL	0.1	0.0926	93		40--160	0.1	0.0931	93		0		0--40
Phenanthrene	0.00016	0.00155	ug/L	0.001	0.1	0.0862	85		40--160	0.1	0.0874	86		1		0--40
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0802	80		40--160	0.1	0.0818	82		2		0--40
Fluoranthene	0.00017	0.00165	ug/L	0.00035	0.1	0.102	102		40--160	0.1	0.0994	99		3		0--40
Pyrene	0.00018	0.00175	ug/L	0.00033	0.1	0.111	111		40--160	0.1	0.116	115		4		0--40
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.103	103		40--160	0.1	0.0985	99		5		0--40
Chrysene	0.00025	0.0025	ug/L	<MDL	0.1	0.0967	97		40--160	0.1	0.094	94		3		0--40
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	0.2	0.211	105		40--160	0.2	0.203	102		4		0--40
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.0966	97		40--160	0.1	0.0916	92		5		0--40
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	0.1	0.0925	93		40--160	0.1	0.0893	89		4		0--40
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	0.1	0.0935	93		40--160	0.1	0.0898	90		4		0--40
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	0.1	0.0909	91		40--160	0.1	0.0873	87		4		0--40

MS:WG120056-4 L55177-1 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD

(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0676	0.0943	0.113	48		40--160
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.0016	0.0943	0.0686	71		40--160
Acenaphthylene	0.00024	0.00193	ug/L	0.00039	0.0943	0.0838	88		40--160
Acenaphthene	0.00014	0.00142	ug/L	0.00033	0.0943	0.0682	72		40--160
Fluorene	0.00014	0.00142	ug/L	0.00047	0.0943	0.0829	87		40--160
Phenanthrene	0.00015	0.00146	ug/L	0.0014	0.0943	0.0712	74		40--160
Anthracene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0739	78		40--160
Fluoranthene	0.00016	0.00156	ug/L	0.00083	0.0943	0.0927	97		40--160
Pyrene	0.00017	0.00165	ug/L	0.0007	0.0943	0.101	107		40--160
Benzo(a)anthracene	0.00024	0.00236	ug/L	<MDL	0.0943	0.088	93		40--160
Chrysene	0.00024	0.00236	ug/L	0.00035	0.0943	0.0807	85		40--160
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	0.00055	0.189	0.155	82		40--160
Benzo(a)pyrene	0.00047	0.00472	ug/L	<MDL	0.0943	0.0751	80		40--160
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0564	60		40--160
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	<MDL	0.0943	0.0563	60		40--160

LIMSView QC Report for Green River Water Samples - Data Validation for PAHs

Benzo(g,h,i)perylene 0.00028 0.00283 ug/L <MDL 0.0943 0.0566 60 40--160

LD:WG120056-5 L55177-2 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.00664	0.0641	162	*	0--40
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.002	0.0023			0--40
Acenaphthylene	0.00024	0.00193	ug/L	0.00067	0.00064			0--40
Acenaphthene	0.00014	0.00142	ug/L	0.00077	0.0008			0--40
Fluorene	0.00014	0.00142	ug/L	0.00075	0.00087			0--40
Phenanthrene	0.00015	0.00146	ug/L	0.00194	0.00175	11		0--40
Anthracene	0.00024	0.00236	ug/L	0.00048	0.00045			0--40
Fluoranthene	0.00016	0.00156	ug/L	0.00159	0.0015	8		0--40
Pyrene	0.00017	0.00165	ug/L	0.0012	0.0012			0--40
Benzo(a)anthracene	0.00024	0.00236	ug/L	0.00024	0.00035			0--40
Chrysene	0.00024	0.00236	ug/L	0.00048	0.00053			0--40
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	0.00082	0.00095			0--40
Benzo(a)pyrene	0.00047	0.00472	ug/L	<MDL	<MDL			0--40
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	0.00028	<MDL			0--40
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	<MDL	<MDL			0--40
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	0.00034	<MDL			0--40

Surrogate: 2-Fluorobiphenyl d14-Terphenyl

(Lab Limits)	40--160	40--160
L55177-1	79	122
L55177-2	81	128
L55177-4	85	119
L55177-5	65	116
L55177-6	84	114
L55283-1	72	103
L55283-2	74	103
L55283-3	83	132
L55283-4	89	128
L55283-6	94	126
WG120056-1	70	88
WG120056-2	78	107
WG120056-3	86	115
WG120056-4	68	104
WG120056-5	86	131

LIMSView QC Report for Green River Water Samples - Data Validation for PAHs

WG120336

MB:WG120336-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.0019	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0012	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	0.0002	B
Fluorene	0.00015	0.0015	ug/L	0.00022	B
Phenanthrene	0.00016	0.00155	ug/L	0.0013	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.00048	B
Pyrene	0.00018	0.00175	ug/L	0.00048	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	
Chrysene	0.00025	0.0025	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	
Total LPAHs	0.00015	0.0015	ug/L	0.00362	
Total HPAHS	0.00017	0.00165	ug/L	0.00096	

SBD:WG120336-3 SB:WG120336-2 MB:WG120336-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Spiked Blank Duplicate, Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit	TrueValue	SBD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.0019	0.1	0.0828	81		40--160	0.1	0.0868	85		5		0--40
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0012	0.1	0.0985	97		40--160	0.1	0.103	102		5		0--40
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.0862	86		40--160	0.1	0.093	93		8		0--40
Acenaphthene	0.00015	0.0015	ug/L	0.0002	0.1	0.0894	89		40--160	0.1	0.0944	94		5		0--40
Fluorene	0.00015	0.0015	ug/L	0.00022	0.1	0.103	103		40--160	0.1	0.108	108		4		0--40
Phenanthrene	0.00016	0.00155	ug/L	0.0013	0.1	0.0835	82		40--160	0.1	0.0873	86		4		0--40
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0832	83		40--160	0.1	0.0882	88		6		0--40
Fluoranthene	0.00017	0.00165	ug/L	0.00048	0.1	0.0904	90		40--160	0.1	0.0945	94		4		0--40
Pyrene	0.00018	0.00175	ug/L	0.00048	0.1	0.103	102		40--160	0.1	0.111	111		8		0--40
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0969	97		40--160	0.1	0.103	103		6		0--40
Chrysene	0.00025	0.0025	ug/L	<MDL	0.1	0.094	94		40--160	0.1	0.0992	99		5		0--40
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	0.2	0.184	92		40--160	0.2	0.193	97		5		0--40
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.0746	75		40--160	0.1	0.0814	81		9		0--40
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	0.1	0.089	89		40--160	0.1	0.0949	95		6		0--40

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Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	0.1	0.0977	98	40--160	0.1	0.104	104	7	0--40
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	0.1	0.0809	81	40--160	0.1	0.0865	87	7	0--40

MS:WG120336-4 L55284-1 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0039	0.0943	0.0625	62		40--160
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.002	0.0943	0.0752	78		40--160
Acenaphthylene	0.00024	0.00193	ug/L	<MDL	0.0943	0.0772	82		40--160
Acenaphthene	0.00014	0.00142	ug/L	0.00033	0.0943	0.0715	75		40--160
Fluorene	0.00014	0.00142	ug/L	0.00067	0.0943	0.089	94		40--160
Phenanthrene	0.00015	0.00146	ug/L	0.00227	0.0943	0.0808	83		40--160
Anthracene	0.00024	0.00236	ug/L	0.00069	0.0943	0.0877	92		40--160
Fluoranthene	0.00016	0.00156	ug/L	0.0011	0.0943	0.0916	96		40--160
Pyrene	0.00017	0.00165	ug/L	<MDL	0.0943	0.103	110		40--160
Benzo(a)anthracene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0999	106		40--160
Chrysene	0.00024	0.00236	ug/L	0.00047	0.0943	0.0935	99		40--160
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	0.00053	0.189	0.158	83		40--160
Benzo(a)pyrene	0.00047	0.00472	ug/L	<MDL	0.0943	0.0729	77		40--160
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0663	70		40--160
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	<MDL	0.0943	0.0717	76		40--160
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	<MDL	0.0943	0.0628	67		40--160

LD:WG120336-5 L55284-2 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0043	0.0174	121	*	0--40
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.0028	0.0026			0--40
Acenaphthylene	0.00024	0.00193	ug/L	0.00059	0.00061			0--40
Acenaphthene	0.00014	0.00142	ug/L	0.00072	0.0007			0--40
Fluorene	0.00014	0.00142	ug/L	0.00067	0.00075			0--40
Phenanthrene	0.00015	0.00146	ug/L	0.0016	0.00167	4		0--40
Anthracene	0.00024	0.00236	ug/L	0.0004	0.00065			0--40
Fluoranthene	0.00016	0.00156	ug/L	0.0012	0.0014			0--40
Pyrene	0.00017	0.00165	ug/L	0.0011	0.0013			0--40
Benzo(a)anthracene	0.00024	0.00236	ug/L	<MDL	0.0003			0--40
Chrysene	0.00024	0.00236	ug/L	0.00043	0.00049			0--40
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	<MDL	0.00063			0--40
Benzo(a)pyrene	0.00047	0.00472	ug/L	<MDL	<MDL			0--40
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	<MDL	<MDL			0--40
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	<MDL	<MDL			0--40

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Benzo(g,h,i)perylene 0.00028 0.00283 ug/L <MDL <MDL 0--40

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	40--160	40--160
L55284-1	80	118
L55284-2	104	125
L55284-3	114	120
L55284-4	101	125
L55284-5	88	111
L55284-6	108	117
WG120336-1	108	118
WG120336-2	108	109
WG120336-3	114	117
WG120336-4	85	120
WG120336-5	85	120

WG120476

MB:WG120476-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.0011	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.00076	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	0.00023	B
Fluorene	0.00015	0.0015	ug/L	0.00031	B
Phenanthrene	0.00016	0.00155	ug/L	0.0013	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.00048	B
Pyrene	0.00018	0.00175	ug/L	0.00047	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	
Chrysene	0.00025	0.0025	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	
Total LPAHs	0.00015	0.0015	ug/L	0.00294	
Total HPAHS	0.00017	0.00165	ug/L	0.00095	

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SB:WG120476-2 MB:WG120476-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.0011	0.1	0.0788	78		40--160
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.00076	0.1	0.0922	91		40--160
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.0841	84		40--160
Acenaphthene	0.00015	0.0015	ug/L	0.00023	0.1	0.0869	87		40--160
Fluorene	0.00015	0.0015	ug/L	0.00031	0.1	0.0936	93		40--160
Phenanthrene	0.00016	0.00155	ug/L	0.0013	0.1	0.0814	80		40--160
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0756	76		40--160
Fluoranthene	0.00017	0.00165	ug/L	0.00048	0.1	0.0853	85		40--160
Pyrene	0.00018	0.00175	ug/L	0.00047	0.1	0.101	100		40--160
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0952	95		40--160
Chrysene	0.00025	0.0025	ug/L	<MDL	0.1	0.0925	93		40--160
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	0.2	0.187	94		40--160
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.0747	75		40--160
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	0.1	0.0873	87		40--160
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	0.1	0.096	96		40--160
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	0.1	0.0796	80		40--160

MSD:WG120476-4 MS:WG120476-3 L55384-1 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit	TrueValue	MSD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0278	0.0943	0.0978	74		40--160	0.0943	0.0769	52		24		0--40
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.00398	0.0943	0.0723	72		40--160	0.0943	0.0715	72		1		0--40
Acenaphthylene	0.00024	0.00193	ug/L	0.001	0.0943	0.0773	81		40--160	0.0943	0.0753	79		3		0--40
Acenaphthene	0.00014	0.00142	ug/L	0.00172	0.0943	0.0721	75		40--160	0.0943	0.071	73		2		0--40
Fluorene	0.00014	0.00142	ug/L	0.00182	0.0943	0.0844	87		40--160	0.0943	0.0853	89		1		0--40
Phenanthrene	0.00015	0.00146	ug/L	0.00462	0.0943	0.0758	75		40--160	0.0943	0.0806	81		6		0--40
Anthracene	0.00024	0.00236	ug/L	0.0016	0.0943	0.081	84		40--160	0.0943	0.0846	88		4		0--40
Fluoranthene	0.00016	0.00156	ug/L	0.00459	0.0943	0.0907	91		40--160	0.0943	0.0916	92		1		0--40
Pyrene	0.00017	0.00165	ug/L	0.00533	0.0943	0.101	102		40--160	0.0943	0.106	106		4		0--40
Benzo(a)anthracene	0.00024	0.00236	ug/L	0.00092	0.0943	0.0933	98		40--160	0.0943	0.0946	99		1		0--40
Chrysene	0.00024	0.00236	ug/L	0.00319	0.0943	0.0895	92		40--160	0.0943	0.0906	93		1		0--40
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	0.0038	0.189	0.155	80		40--160	0.189	0.154	80		1		0--40
Benzo(a)pyrene	0.00047	0.00472	ug/L	0.0012	0.0943	0.0711	74		40--160	0.0943	0.0701	73		1		0--40
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	0.0012	0.0943	0.0652	68		40--160	0.0943	0.0662	69		1		0--40
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	0.00033	0.0943	0.0706	75		40--160	0.0943	0.0715	75		1		0--40
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	0.0015	0.0943	0.062	64		40--160	0.0943	0.0628	65		1		0--40

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Surrogate: (Lab Limits)	2-Fluorobiphenyl 40--160	d14-Terphenyl 40--160
L55384-1	91	107
L55384-2	81	108
L55384-3	103	123
L55384-4	113	125
WG120476-1	102	109
WG120476-2	102	105
WG120476-3	96	108
WG120476-4	90	113

WG123089

MB:WG123089-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.0023	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0016	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	0.00037	B
Fluorene	0.00015	0.0015	ug/L	0.00048	B
Phenanthrrene	0.00016	0.00155	ug/L	0.00166	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.00051	B
Pyrene	0.00018	0.00175	ug/L	0.00043	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	
Chrysene	0.00025	0.0025	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	
Total LPAHs	0.00015	0.0015	ug/L	0.00481	
Total HPAHS	0.00017	0.00165	ug/L	0.00094	

SB:WG123089-2 MB:WG123089-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.0023	0.1	0.0507	48		40--160
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0016	0.1	0.0576	56		40--160
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.0668	67		40--160

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Acenaphthene	0.00015	0.0015	ug/L	0.00037	0.1	0.054	54	40--160
Fluorene	0.00015	0.0015	ug/L	0.00048	0.1	0.0638	63	40--160
Phenanthrene	0.00016	0.00155	ug/L	0.00166	0.1	0.0619	60	40--160
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0573	57	40--160
Fluoranthene	0.00017	0.00165	ug/L	0.00051	0.1	0.0797	79	40--160
Pyrene	0.00018	0.00175	ug/L	0.00043	0.1	0.1	100	40--160
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.103	103	40--160
Chrysene	0.00025	0.0025	ug/L	<MDL	0.1	0.095	95	40--160
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	0.2	0.197	99	40--160
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.0802	80	40--160
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	0.1	0.0942	94	40--160
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	0.1	0.0955	96	40--160
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	0.1	0.0916	92	40--160

MSD:WG123089-4 MS:WG123089-3 L56484-2 Matrix: FRESH WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit	TrueValue	MSD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0109	0.0943	0.0565	48		40--160	0.0952	0.0464	37	*	20	0--40	
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.00362	0.0943	0.0496	49		40--160	0.0952	0.0495	48		0	0--40	
Acenaphthylene	0.00024	0.00193	ug/L	0.00048	0.0943	0.0584	61		40--160	0.0952	0.0611	64		5	0--40	
Acenaphthene	0.00014	0.00142	ug/L	0.00218	0.0943	0.048	49		40--160	0.0952	0.0507	51		6	0--40	
Fluorene	0.00014	0.00142	ug/L	0.0013	0.0943	0.0577	60		40--160	0.0952	0.0618	63		7	0--40	
Phenanthrene	0.00015	0.00146	ug/L	0.00294	0.0943	0.0575	58		40--160	0.0952	0.0648	65		12	0--40	
Anthracene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0589	62		40--160	0.0952	0.0641	67		9	0--40	
Fluoranthene	0.00016	0.00156	ug/L	0.00096	0.0943	0.0733	77		40--160	0.0952	0.0812	84		10	0--40	
Pyrene	0.00017	0.00165	ug/L	0.00068	0.0943	0.0897	94		40--160	0.0952	0.107	111		17	0--40	
Benzo(a)anthracene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0888	94		40--160	0.0952	0.0938	99		5	0--40	
Chrysene	0.00024	0.00236	ug/L	0.00028	0.0943	0.0795	84		40--160	0.0952	0.0845	88		6	0--40	
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	<MDL	0.189	0.162	86		40--160	0.19	0.162	85		0	0--40	
Benzo(a)pyrene	0.00047	0.00472	ug/L	<MDL	0.0943	0.0783	83		40--160	0.0952	0.0745	78		5	0--40	
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0738	78		40--160	0.0952	0.0679	71		8	0--40	
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	<MDL	0.0943	0.0734	78		40--160	0.0952	0.0674	71		9	0--40	
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	<MDL	0.0943	0.0719	76		40--160	0.0952	0.067	70		7	0--40	

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	40--160	40--160
L56484-1	53	119
L56484-2	51	108
L56484-3	52	100
L56484-4	64	103
L56484-5	69	104

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L56484-6	66	100
WG123089-1	46	85
WG123089-2	49	95
WG123089-3	46	89
WG123089-4	46	102

WG124037

MB:WG124037-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.0018	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0011	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	0.00015	B
Fluorene	0.00015	0.0015	ug/L	0.0002	B
Phenanthrene	0.00016	0.00155	ug/L	0.0015	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.00061	B
Pyrene	0.00018	0.00175	ug/L	0.00056	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	
Chrysene	0.00025	0.0025	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	
Total LPAHs	0.00015	0.0015	ug/L	0.00365	
Total HPAHS	0.00017	0.00165	ug/L	0.00117	

SBD:WG124037-3 SB:WG124037-2 MB:WG124037-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Spiked Blank Duplicate, Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit	TrueValue	SBD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.0018	0.1	0.0725	71		40--160	0.1	0.0756	74		4	0--40	
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0011	0.1	0.0906	89		40--160	0.1	0.0893	88		1	0--40	
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.104	104		40--160	0.1	0.111	111		7	0--40	
Acenaphthene	0.00015	0.0015	ug/L	0.00015	0.1	0.0802	80		40--160	0.1	0.0857	86		7	0--40	
Fluorene	0.00015	0.0015	ug/L	0.0002	0.1	0.0929	93		40--160	0.1	0.0983	98		6	0--40	
Phenanthrene	0.00016	0.00155	ug/L	0.0015	0.1	0.0832	82		40--160	0.1	0.0888	87		7	0--40	
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0777	78		40--160	0.1	0.0856	86		10	0--40	
Fluoranthene	0.00017	0.00165	ug/L	0.00061	0.1	0.0904	90		40--160	0.1	0.0922	92		2	0--40	

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Pyrene	0.00018	0.00175	ug/L	0.00056	0.1	0.116	115	40--160	0.1	0.113	112	3	0--40
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.104	104	40--160	0.1	0.105	105	2	0--40
Chrysene	0.00025	0.0025	ug/L	<MDL	0.1	0.0942	94	40--160	0.1	0.0955	95	1	0--40
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	0.2	0.201	100	40--160	0.2	0.207	103	3	0--40
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.0893	89	40--160	0.1	0.0939	94	5	0--40
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	0.1	0.0886	89	40--160	0.1	0.091	91	3	0--40
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	0.1	0.0859	86	40--160	0.1	0.0876	88	2	0--40
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	0.1	0.0903	90	40--160	0.1	0.0936	94	4	0--40

MS:WG124037-4 L55434-1 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0321	0.0943	0.0883	60		40--160
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.00313	0.0943	0.0677	68		40--160
Acenaphthylene	0.00024	0.00193	ug/L	<MDL	0.0943	0.0898	95		40--160
Acenaphthene	0.00014	0.00142	ug/L	<MDL	0.0943	0.0674	71		40--160
Fluorene	0.00014	0.00142	ug/L	0.0012	0.0943	0.0833	87		40--160
Phenanthrene	0.00015	0.00146	ug/L	0.00317	0.0943	0.0803	82		40--160
Anthracene	0.00024	0.00236	ug/L	0.0016	0.0943	0.0856	89		40--160
Fluoranthene	0.00016	0.00156	ug/L	0.00249	0.0943	0.0872	90		40--160
Pyrene	0.00017	0.00165	ug/L	0.00257	0.0943	0.0953	98		40--160
Benzo(a)anthracene	0.00024	0.00236	ug/L	0.00052	0.0943	0.0945	100		40--160
Chrysene	0.00024	0.00236	ug/L	0.0015	0.0943	0.0855	89		40--160
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	0.0019	0.189	0.169	89		40--160
Benzo(a)pyrene	0.00047	0.00472	ug/L	0.0005	0.0943	0.0836	88		40--160
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	0.00051	0.0943	0.0708	75		40--160
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	<MDL	0.0943	0.0678	72		40--160
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	0.00063	0.0943	0.07	74		40--160

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	40--160	40--160
L55434-1	63	91
L55434-2	60	92
L55434-3	62	91
L56881-1	53	103
WG124037-1	68	97
WG124037-2	70	97
WG124037-3	77	94
WG124037-4	66	92

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WG124302

MB:WG124302-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.0025	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0014	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	0.00019	B
Fluorene	0.00015	0.0015	ug/L	0.0003	B
Phenanthrene	0.00016	0.00155	ug/L	0.00174	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.0007	B
Pyrene	0.00018	0.00175	ug/L	0.00056	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	
Chrysene	0.00025	0.0025	ug/L	0.00026	B
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	0.00064	B
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	0.00038	B
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	0.00039	B
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	0.00034	B
Total LPAHs	0.00015	0.0015	ug/L	0.00473	
Total HPAHS	0.00017	0.00165	ug/L	0.00327	

SB:WG124302-2 MB:WG124302-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.0025	0.1	0.0736	71		40--160
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0014	0.1	0.0754	74		40--160
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.105	105		40--160
Acenaphthene	0.00015	0.0015	ug/L	0.00019	0.1	0.0821	82		40--160
Fluorene	0.00015	0.0015	ug/L	0.0003	0.1	0.0924	92		40--160
Phenanthrene	0.00016	0.00155	ug/L	0.00174	0.1	0.0866	85		40--160
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0956	96		40--160
Fluoranthene	0.00017	0.00165	ug/L	0.0007	0.1	0.109	108		40--160
Pyrene	0.00018	0.00175	ug/L	0.00056	0.1	0.093	92		40--160
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.104	104		40--160
Chrysene	0.00025	0.0025	ug/L	0.00026	0.1	0.0982	98		40--160
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	0.00064	0.2	0.245	122		40--160
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.122	122		40--160
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	0.00038	0.1	0.133	133		40--160

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Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	0.00039	0.1	0.136	136	40--160
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	0.00034	0.1	0.121	121	40--160

MSD:WG124302-4 MS:WG124302-3 L56994-1 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit	TrueValue	MSD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.00482	0.0943	0.0537	52		40--160	0.0943	0.0608	59	12		0--40	
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.0019	0.0943	0.0509	52		40--160	0.0943	0.0512	52	1		0--40	
Acenaphthylene	0.00024	0.00193	ug/L	<MDL	0.0943	0.0759	80		40--160	0.0943	0.0758	80	0		0--40	
Acenaphthene	0.00014	0.00142	ug/L	0.00047	0.0943	0.0581	61		40--160	0.0943	0.0577	61	1		0--40	
Fluorene	0.00014	0.00142	ug/L	0.0007	0.0943	0.0728	76		40--160	0.0943	0.0728	76	0		0--40	
Phenanthrene	0.00015	0.00146	ug/L	0.00267	0.0943	0.0805	83		40--160	0.0943	0.0809	83	0		0--40	
Anthracene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0844	89		40--160	0.0943	0.0838	89	1		0--40	
Fluoranthene	0.00016	0.00156	ug/L	0.00204	0.0943	0.0998	104		40--160	0.0943	0.0843	87	17		0--40	
Pyrene	0.00017	0.00165	ug/L	0.0013	0.0943	0.0844	88		40--160	0.0943	0.0717	75	16		0--40	
Benzo(a)anthracene	0.00024	0.00236	ug/L	0.00048	0.0943	0.0911	96		40--160	0.0943	0.0877	92	4		0--40	
Chrysene	0.00024	0.00236	ug/L	0.0006	0.0943	0.0874	92		40--160	0.0943	0.0849	89	3		0--40	
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	0.0019	0.189	0.213	112		40--160	0.189	0.2	105	6		0--40	
Benzo(a)pyrene	0.00047	0.00472	ug/L	0.00071	0.0943	0.112	118		40--160	0.0943	0.105	110	7		0--40	
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	0.00055	0.0943	0.111	117		40--160	0.0943	0.0999	105	11		0--40	
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	0.00064	0.0943	0.108	114		40--160	0.0943	0.0933	98	14		0--40	
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	0.00049	0.0943	0.0924	97		40--160	0.0943	0.0806	85	14		0--40	

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	40--160	40--160
L56994-1	50	83
WG124302-1	77	97
WG124302-2	78	99
WG124302-3	61	90
WG124302-4	61	81

WG124534

MB:WG124534-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.003	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0011	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	0.00022	B
Fluorene	0.00015	0.0015	ug/L	0.00027	B

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Phenanthrene	0.00016	0.00155	ug/L	0.0015	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.00071	B
Pyrene	0.00018	0.00175	ug/L	0.00064	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	0.00028	B
Chrysene	0.00025	0.0025	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	
Total LPAHs	0.00015	0.0015	ug/L	0.00499	
Total HPAHS	0.00017	0.00165	ug/L	0.00163	

SB:WG124534-2 MB:WG124534-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.003	0.1	0.0349	32	*	40--160
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0011	0.1	0.0345	33	*	40--160
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.0833	83		40--160
Acenaphthene	0.00015	0.0015	ug/L	0.00022	0.1	0.0578	58		40--160
Fluorene	0.00015	0.0015	ug/L	0.00027	0.1	0.0798	80		40--160
Phenanthrene	0.00016	0.00155	ug/L	0.0015	0.1	0.0825	81		40--160
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0879	88		40--160
Fluoranthene	0.00017	0.00165	ug/L	0.00071	0.1	0.105	104		40--160
Pyrene	0.00018	0.00175	ug/L	0.00064	0.1	0.0993	99		40--160
Benzo(a)anthracene	0.00025	0.0025	ug/L	0.00028	0.1	0.0965	96		40--160
Chrysene	0.00025	0.0025	ug/L	<MDL	0.1	0.106	106		40--160
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	0.2	0.261	130		40--160
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.128	128		40--160
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	0.1	0.128	128		40--160
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	0.1	0.126	126		40--160
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	0.1	0.114	114		40--160

MSD:WG124534-4 MS:WG124534-3 L56869-2 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit	TrueValue	MSD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0121	0.0943	0.0654	57		40--160	0.0943	0.0686	60	5		0--40	
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.00807	0.0943	0.0635	59		40--160	0.0943	0.0675	63	6		0--40	
Acenaphthylene	0.00024	0.00193	ug/L	0.00081	0.0943	0.0786	82		40--160	0.0943	0.0821	86	4		0--40	
Acenaphthene	0.00014	0.00142	ug/L	0.0012	0.0943	0.0606	63		40--160	0.0943	0.0629	65	4		0--40	

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Fluorene	0.00014	0.00142	ug/L	0.0014	0.0943	0.0729	76	40--160	0.0943	0.0762	79	4	0--40
Phenanthrene	0.00015	0.00146	ug/L	0.00515	0.0943	0.0802	80	40--160	0.0943	0.0782	77	2	0--40
Anthracene	0.00024	0.00236	ug/L	0.00091	0.0943	0.0909	95	40--160	0.0943	0.0869	91	5	0--40
Fluoranthene	0.00016	0.00156	ug/L	0.00762	0.0943	0.117	116	40--160	0.0943	0.116	115	1	0--40
Pyrene	0.00017	0.00165	ug/L	0.00596	0.0943	0.0962	96	40--160	0.0943	0.0925	92	4	0--40
Benzo(a)anthracene	0.00024	0.00236	ug/L	0.0019	0.0943	0.102	106	40--160	0.0943	0.0998	104	2	0--40
Chrysene	0.00024	0.00236	ug/L	0.00349	0.0943	0.104	107	40--160	0.0943	0.105	108	1	0--40
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	0.0084	0.189	0.254	130	40--160	0.189	0.255	131	0	0--40
Benzo(a)pyrene	0.00047	0.00472	ug/L	0.0035	0.0943	0.132	136	40--160	0.0943	0.134	139	2	0--40
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	0.00379	0.0943	0.128	132	40--160	0.0943	0.134	138	4	0--40
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	0.00093	0.0943	0.114	119	40--160	0.0943	0.126	133	10	0--40
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	0.00428	0.0943	0.113	115	40--160	0.0943	0.118	121	5	0--40

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	40--160	40--160
L56869-1	50	102
L56869-2	56	95
L56869-3	51	103
L56869-4	59	109
L56869-5	54	100
L56869-6	59	94
WG124534-1	68	129
WG124534-2	31 *	103
WG124534-3	49	108
WG124534-4	52	108

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WG123061

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56427-4	421422-DUGW	SWD-DUGW Duvall GW Qtr	CVTOC	GRND WTR	09/07/12	09/13/12	09/13/12	
L56427-5	421422-DUGW	SWD-DUGW Duvall GW Qtr	CVTOC	GRND WTR	09/07/12	09/14/12	09/14/12	
L56428-1	421422-HTGW	SWD-HTGW Houghton GW Qtr	CVTOC	GRND WTR	09/12/12	09/13/12	09/13/12	
L56428-3	421422-DUGW	SWD-DUGW Duvall GW Qtr	CVTOC	GRND WTR	09/07/12	09/13/12	09/13/12	
L56428-4	421422-HTGW	SWD-HTGW Houghton GW Qtr	CVTOC	GRND WTR	09/12/12	09/13/12	09/13/12	
L56430-1	421422-DUGW	SWD-DUGW Duvall GW Qtr	CVTOC	GRND WTR	09/10/12	09/13/12	09/13/12	
L56430-3	421422-DUGW	SWD-DUGW Duvall GW Qtr	CVTOC	GRND WTR	09/13/12	09/13/12	09/13/12	
L56430-4	421422-DUGW	SWD-DUGW Duvall GW Qtr	CVTOC	GRND WTR	09/11/12	09/13/12	09/13/12	
L56432-1	421422-HTGW	SWD-HTGW Houghton GW Qtr	CVTOC	GRND WTR	09/12/12	09/13/12	09/13/12	
L56432-3	421422-HTGW	SWD-HTGW Houghton GW Qtr	CVTOC	GRND WTR	09/13/12	09/13/12	09/13/12	
L56453-1	421422-HTGW	SWD-HTGW Houghton GW Qtr	CVTOC	GRND WTR	09/13/12	09/13/12	09/13/12	
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	
L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	
L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/13/12	09/13/12	
L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/13/12	09/13/12	09/14/12	
L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/13/12	09/14/12	09/14/12	
WG123061-1	MB		CVTOC	BLANK WTR	09/13/12	09/13/12		MB1 120913
WG123061-2	LCS		CVTOC	BLANK WTR	09/13/12	09/13/12		LEVEL1
WG123061-3	SB		CVTOC	BLANK WTR	09/13/12	09/13/12		WG123061-1
WG123061-4	MS		CVTOC	GRND WTR	09/13/12	09/13/12		L56428-1
WG123061-5	LD		CVTOC	FRESH WTR	09/13/12	09/13/12		L56484-4
WG123061-6	MS		CVTOC	FRESH WTR	09/13/12	09/13/12		L56484-5
WG123061-7	MB		CVDOC	BLANK WTR	09/13/12	09/14/12		MB1 120913
WG123061-8	LCS		CVDOC	BLANK WTR	09/14/12	09/14/12		LEVEL1
WG123061-9	SB		CVDOC	BLANK WTR	09/13/12	09/14/12		WG123061-7
WG123061-10	LD		CVDOC	FRESH WTR	09/13/12	09/14/12		L56484-3
WG123061-11	MS		CVDOC	FRESH WTR	09/13/12	09/14/12		L56484-4
WG123061-12	LD		CVTOC	GRND WTR	09/14/12	09/14/12		L56427-5

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WG123139

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56239-1	421250ON	Ambient Offshore	CVTSS	FRESH WTR	09/17/12	09/19/12	09/19/12	
L56239-2	421250ON	Ambient Offshore	CVTSS	FRESH WTR	09/17/12	09/19/12	09/19/12	
L56239-3	421250ON	Ambient Offshore	CVTSS	FRESH WTR	09/17/12	09/19/12	09/19/12	
L56341-5	421422-PUGW	SWD-PUGW Puyallup GW Qtr	CVTSS	GRND WTR	09/18/12	09/19/12	09/19/12	
L56385-1	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-2	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-3	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-4	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-5	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-6	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-7	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-8	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-9	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-10	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-11	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56385-12	422019	WRIA 7 Streams	CVTSS	FRESH WTR	09/18/12	09/19/12	09/19/12	
L56392-1	421250OS	Ambient Offshore	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-2	421250OS	Ambient Offshore	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-3	421250OS	Ambient Offshore	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-4	421250OS	Ambient Offshore	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-5	421250OS	Ambient Offshore	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-6	421250OS	Ambient Offshore	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56392-7	421250OS	Ambient Offshore	CVTSS	SALT WTR	09/18/12	09/19/12	09/19/12	
L56395-1	421250ON	Ambient Offshore	CVTSS	SALT WTR	09/17/12	09/19/12	09/19/12	
L56395-2	421250ON	Ambient Offshore	CVTSS	SALT WTR	09/17/12	09/19/12	09/19/12	
L56395-3	421250ON	Ambient Offshore	CVTSS	SALT WTR	09/17/12	09/19/12	09/19/12	
L56430-3	421422-DUGW	SWD-DUGW Duvall GW Qtr	CVTSS	GRND WTR	09/13/12	09/19/12	09/19/12	
L56431-1	421422-ENLS	SWD-ENLS Enumclaw WW Permit	CVTSS	IW WTR	09/18/12	09/19/12	09/19/12	
L56453-4	421422-HTGW	SWD-HTGW Houghton GW Qtr	CVTSS	GRND WTR	09/17/12	09/19/12	09/19/12	
L56454-1	421422-HTGW	SWD-HTGW Houghton GW Qtr	CVTSS	GRND WTR	09/17/12	09/19/12	09/19/12	
L56454-3	421422-HTGW	SWD-HTGW Houghton GW Qtr	CVTSS	GRND WTR	09/17/12	09/19/12	09/19/12	
L56455-1	421422-PUGW	SWD-PUGW Puyallup GW Qtr	CVTSS	GRND WTR	09/17/12	09/19/12	09/19/12	
L56455-3	421422-PUGW	SWD-PUGW Puyallup GW Qtr	CVTSS	GRND WTR	09/17/12	09/19/12	09/19/12	
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	
L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	
L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	

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L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/13/12	09/19/12	09/19/12	
L56492-4	421422-PUGW	SWD-PUGW Puyallup GW Qtr	CVTSS	GRND WTR	09/18/12	09/19/12	09/19/12	
WG123139-1	MB		CVTSS	BLANK WTR		09/19/12	09/19/12	MB1 9/19/12
WG123139-2	LCS		CVTSS	BLANK WTR		09/19/12	09/19/12	LEVEL1
WG123139-3	LD		CVTSS	FRESH WTR		09/19/12	09/19/12	L56385-7
WG123139-4	LD		CVTSS	GRND WTR		09/19/12	09/19/12	L56455-3
WG123139-5	MB		CVTSS	BLANK WTR		09/19/12	09/19/12	MB2 9/19/12
WG123139-6	LCS		CVTSS	BLANK WTR		09/19/12	09/19/12	LEVEL1
WG123139-7	LD		CVTSS	IW WTR		09/19/12	09/19/12	L56431-1
WG123139-8	LD		CVTSS	FRESH WTR		09/19/12	09/19/12	L56484-1
WG123139-9	LD		CVTSS	FRESH WTR		09/19/12	09/19/12	L56239-3
WG123139-10	LD		CVTSS	SALT WTR		09/19/12	09/19/12	L56392-1

WG123352

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/13/12	10/01/12	10/01/12	
WG123352-1	MB		MTICPMS	BLANK WTR		10/01/12	10/01/12	METHOD BLANK
WG123352-2	SB		MTICPMS	BLANK WTR		10/01/12	10/01/12	WG123352-1 MS-20
WG123352-3	LD		MTICPMS	FRESH WTR		10/01/12	10/01/12	L56484-4 RPD-LIQ
WG123352-4	MS		MTICPMS	FRESH WTR		10/01/12	10/01/12	L56484-4 MS-20

WG123353

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/13/12	10/01/12	10/01/12	
WG123353-1	MB		MTICPMS-DISS	BLANK WTR		10/01/12	10/01/12	METHOD BLANK
WG123353-2	SB		MTICPMS-DISS	BLANK WTR		10/01/12	10/01/12	WG123353-1 MS-20
WG123353-3	LD		MTICPMS-DISS	FRESH WTR		10/01/12	10/01/12	L56484-5 RPD-LIQ
WG123353-4	MS		MTICPMS-DISS	FRESH WTR		10/01/12	10/01/12	L56484-5 MS-20

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WG123089

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56484-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	
L56484-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	
L56484-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	
L56484-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	
L56484-5	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	
L56484-6	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/13/12	09/17/12	09/20/12	
WG123089-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		09/17/12	09/20/12	MB120917
WG123089-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		09/17/12	09/20/12	WG123089-1
WG123089-3	MS		ORPAH-SIM-LVI-LL	FRESH WTR		09/17/12	09/20/12	L56484-2
WG123089-4	MSD		ORPAH-SIM-LVI-LL	FRESH WTR		09/17/12	09/20/12	WG123089-3 L56484-2

LIMSView QC Report for Green River Integrated Water Samples - Data Validation for All Parameters

WG123061

MB:WG123061-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG123061-2 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD

(Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.73	97		85--115

SB:WG123061-3 MB:WG123061-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD

(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	9.26	93		80--120

MS:WG123061-4 L56428-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-HTGW Pkey:STD

(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.08	10	11.2	101		75--125

LD:WG123061-5 L56484-4 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	2.47	2.35	5		0--20

MS:WG123061-6 L56484-5 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD

(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	2.39	10	12.6	102		75--125

MB:WG123061-7 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG123061-8 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD

(Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	9.74	97		85--115

LIMSView QC Report for Green River Integrated Water Samples - Data Validation for All Parameters

SB:WG123061-9 MB:WG123061-7 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD

(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	10.8	108		80--120

LD:WG123061-10 L56484-3 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	2.02	1.87	8		0--20

MS:WG123061-11 L56484-4 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD

(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.93	10	12.5	106		75--125

LD:WG123061-12 L56427-5 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-DUGW Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.09	1.01	8		0--20

WG123139

MB:WG123139-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG123139-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD

(Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	94	94		80--120

LD:WG123139-3 L56385-7 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:422019 Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	3.2	3	6		0--25

LD:WG123139-4 L56455-3 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-PUGW Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	46.6	47	1		0--25

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MB:WG123139-5 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG123139-6 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	87	87		80--120

LD:WG123139-7 L56431-1 Matrix: IW WTR Listtype:CVTSS Method:SM2540-D Project:421422-ENLS Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	10	20	mg/L	374	392	5		0--25

LD:WG123139-8 L56484-1 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	3.8	4.2	10		0--25

LD:WG123139-9 L56239-3 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421250ON Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	5.8	7	19		0--25

LD:WG123139-10 L56392-1 Matrix: SALT WTR Listtype:CVTSS Method:SM2540-D Project:421250OS Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	20	mg/L	6	6.4			0--25

WG123352

MB:WG123352-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG123352-2 MB:WG123352-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.3	97		85--115

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LD:WG123352-3 L56484-4 Matrix: FRESH WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.779	0.785	1		0--20

MS:WG123352-4 L56484-4 Matrix: FRESH WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.779	20	19.2	92		75--125

WG123353

MB:WG123353-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG123353-2 MB:WG123353-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.5	98		85--115

LD:WG123353-3 L56484-5 Matrix: FRESH WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.663	0.671	1		0--20

MS:WG123353-4 L56484-5 Matrix: FRESH WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.663	20	20.7	100		75--125

WG123089

MB:WG123089-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	0.0005	0.005	ug/L	0.0023	B
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0016	B
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	
Acenaphthene	0.00015	0.0015	ug/L	0.00037	B

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Fluorene	0.00015	0.0015	ug/L	0.00048	B
Phenanthrene	0.00016	0.00155	ug/L	0.00166	B
Anthracene	0.00025	0.0025	ug/L	<MDL	
Fluoranthene	0.00017	0.00165	ug/L	0.00051	B
Pyrene	0.00018	0.00175	ug/L	0.00043	B
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	
Chrysene	0.00025	0.0025	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	
Total LPAHs	0.00015	0.0015	ug/L	0.00481	
Total HPAHS	0.00017	0.00165	ug/L	0.00094	

SB:WG123089-2 MB:WG123089-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Naphthalene	0.0005	0.005	ug/L	0.0023	0.1	0.0507	48		40--160
2-Methylnaphthalene	0.00031	0.00305	ug/L	0.0016	0.1	0.0576	56		40--160
Acenaphthylene	0.00025	0.00205	ug/L	<MDL	0.1	0.0668	67		40--160
Acenaphthene	0.00015	0.0015	ug/L	0.00037	0.1	0.054	54		40--160
Fluorene	0.00015	0.0015	ug/L	0.00048	0.1	0.0638	63		40--160
Phenanthrene	0.00016	0.00155	ug/L	0.00166	0.1	0.0619	60		40--160
Anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.0573	57		40--160
Fluoranthene	0.00017	0.00165	ug/L	0.00051	0.1	0.0797	79		40--160
Pyrene	0.00018	0.00175	ug/L	0.00043	0.1	0.1	100		40--160
Benzo(a)anthracene	0.00025	0.0025	ug/L	<MDL	0.1	0.103	103		40--160
Chrysene	0.00025	0.0025	ug/L	<MDL	0.1	0.095	95		40--160
Benzo(b,j,k)fluoranthene	0.0005	0.005	ug/L	<MDL	0.2	0.197	99		40--160
Benzo(a)pyrene	0.0005	0.005	ug/L	<MDL	0.1	0.0802	80		40--160
Indeno(1,2,3-Cd)Pyrene	0.00025	0.0025	ug/L	<MDL	0.1	0.0942	94		40--160
Dibenzo(a,h)anthracene	0.00035	0.0035	ug/L	<MDL	0.1	0.0955	96		40--160
Benzo(g,h,i)perylene	0.0003	0.003	ug/L	<MDL	0.1	0.0916	92		40--160

MSD:WG123089-4 MS:WG123089-3 L56484-2 Matrix: FRESH WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit	TrueValue	MSD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	0.00047	0.00472	ug/L	0.0109	0.0943	0.0565	48		40--160	0.0952	0.0464	37	*	20	0--40	
2-Methylnaphthalene	0.00029	0.00288	ug/L	0.00362	0.0943	0.0496	49		40--160	0.0952	0.0495	48	0	0	0--40	
Acenaphthylene	0.00024	0.00193	ug/L	0.00048	0.0943	0.0584	61		40--160	0.0952	0.0611	64	5	0	0--40	

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Acenaphthene	0.00014	0.00142	ug/L	0.00218	0.0943	0.048	49	40--160	0.0952	0.0507	51	6	0--40
Fluorene	0.00014	0.00142	ug/L	0.0013	0.0943	0.0577	60	40--160	0.0952	0.0618	63	7	0--40
Phenanthrene	0.00015	0.00146	ug/L	0.00294	0.0943	0.0575	58	40--160	0.0952	0.0648	65	12	0--40
Anthracene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0589	62	40--160	0.0952	0.0641	67	9	0--40
Fluoranthene	0.00016	0.00156	ug/L	0.00096	0.0943	0.0733	77	40--160	0.0952	0.0812	84	10	0--40
Pyrene	0.00017	0.00165	ug/L	0.00068	0.0943	0.0897	94	40--160	0.0952	0.107	111	17	0--40
Benzo(a)anthracene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0888	94	40--160	0.0952	0.0938	99	5	0--40
Chrysene	0.00024	0.00236	ug/L	0.00028	0.0943	0.0795	84	40--160	0.0952	0.0845	88	6	0--40
Benzo(b,j,k)fluoranthene	0.00047	0.00472	ug/L	<MDL	0.189	0.162	86	40--160	0.19	0.162	85	0	0--40
Benzo(a)pyrene	0.00047	0.00472	ug/L	<MDL	0.0943	0.0783	83	40--160	0.0952	0.0745	78	5	0--40
Indeno(1,2,3-Cd)Pyrene	0.00024	0.00236	ug/L	<MDL	0.0943	0.0738	78	40--160	0.0952	0.0679	71	8	0--40
Dibenzo(a,h)anthracene	0.00033	0.0033	ug/L	<MDL	0.0943	0.0734	78	40--160	0.0952	0.0674	71	9	0--40
Benzo(g,h,i)perylene	0.00028	0.00283	ug/L	<MDL	0.0943	0.0719	76	40--160	0.0952	0.067	70	7	0--40

Surrogate: (Lab Limits)	2-Fluorobiphenyl		d14-Terphenyl
	40--160	40--160	40--160
L56484-1	53		119
L56484-2	51		108
L56484-3	52		100
L56484-4	64		103
L56484-5	69		104
L56484-6	66		100
WG123089-1	46		85
WG123089-2	49		95
WG123089-3	46		89
WG123089-4	46		102

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Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56869-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	12/03/12	12/03/12	12/05/12	
L56869-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	12/03/12	12/05/12	12/05/12	
L56869-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	12/03/12	12/03/12	12/05/12	
L56869-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	12/03/12	12/05/12	12/05/12	
L56869-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	12/03/12	12/03/12	12/05/12	
L56869-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	12/03/12	12/05/12	12/05/12	
L56869-4	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	12/03/12	12/03/12	12/05/12	
L56869-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	12/03/12	12/05/12	12/05/12	
L56869-5	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	12/03/12	12/03/12	12/05/12	
L56869-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	12/03/12	12/05/12	12/05/12	
L56869-6	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	12/03/12	12/03/12	12/05/12	
L56869-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	12/03/12	12/05/12	12/05/12	
L56898-2	421422-DUGW	SWD-DUGW Duvall GW Qtrly	CVTOC	GRND WTR	12/03/12	12/06/12	12/06/12	
L56923-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	CVTOC	GRND WTR	12/03/12	12/06/12	12/06/12	
L56923-3	421422-DUGW	SWD-DUGW Duvall GW Qtrly	CVTOC	GRND WTR	12/03/12	12/06/12	12/06/12	
L56925-1	421422-CFGW	SWD-CFGW Cedar Falls GW Qtrly	CVTOC	GRND WTR	12/03/12	12/06/12	12/06/12	
L56925-3	421422-CFGW	SWD-CFGW Cedar Falls GW Qtrly	CVTOC	GRND WTR	12/03/12	12/06/12	12/06/12	
L56936-1	421422-CFGW	SWD-CFGW Cedar Falls GW Qtrly	CVTOC	GRND WTR	12/04/12	12/05/12	12/05/12	
L57052-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	CVTOC	GRND WTR	12/04/12	12/05/12	12/05/12	
L57052-3	421422-DUGW	SWD-DUGW Duvall GW Qtrly	CVTOC	GRND WTR	12/04/12	12/05/12	12/05/12	
L57053-4	421422-DUGW	SWD-DUGW Duvall GW Qtrly	CVTOC	GRND WTR	12/05/12	12/06/12	12/06/12	
L57054-1	421422-DUGW	SWD-DUGW Duvall GW Qtrly	CVTOC	GRND WTR	12/05/12	12/06/12	12/06/12	
WG124541-1	MB		CVDOC	BLANK WTR	12/03/12	12/05/12		MB1 121203
WG124541-2	LCS		CVDOC	BLANK WTR	12/05/12	12/05/12		LEVEL1
WG124541-3	SB		CVDOC	BLANK WTR	12/03/12	12/05/12		WG124541-1
WG124541-4	LD		CVDOC	STORM WTR	12/03/12	12/05/12		L56869-2
WG124541-5	MS		CVDOC	STORM WTR	12/03/12	12/05/12		L56869-5
WG124541-6	MB		CVTOC	BLANK WTR	12/05/12	12/05/12		MB1 121205
WG124541-7	LCS		CVTOC	BLANK WTR	12/05/12	12/05/12		LEVEL1
WG124541-8	SB		CVTOC	BLANK WTR	12/05/12	12/05/12		WG124541-6
WG124541-9	LD		CVTOC	STORM WTR	12/05/12	12/05/12		L56869-3
WG124541-10	MS		CVTOC	STORM WTR	12/05/12	12/05/12		L56869-5
WG124541-11	LD		CVTOC	GRND WTR	12/06/12	12/06/12		L56923-1
WG124541-12	MS		CVTOC	GRND WTR	12/06/12	12/06/12		L56925-3

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Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56869-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	12/03/12	12/04/12	12/05/12	
L56869-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	12/03/12	12/04/12	12/05/12	
L56869-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	12/03/12	12/04/12	12/05/12	
L56869-4	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	12/03/12	12/04/12	12/05/12	
L56869-5	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	12/03/12	12/04/12	12/05/12	
L56869-6	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	12/03/12	12/04/12	12/05/12	
L56979-1	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-2	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-3	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-4	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-5	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-6	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-8	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-9	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-10	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-11	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-12	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-13	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-14	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-15	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-16	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-17	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-19	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-20	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-21	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-22	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-23	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-25	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-26	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-27	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-29	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-30	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-31	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-32	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-33	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/28/12	12/04/12	12/05/12	
L56979-37	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	
L56979-38	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	
L56979-39	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	

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L56979-40	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	
L56979-41	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	
L56979-42	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	
L56979-44	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	
L56979-45	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	
L56979-46	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	
L56979-47	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	
L56979-48	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	
L56979-49	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	11/27/12	12/04/12	12/05/12	
WG124465-1	MB		CVTSS	BLANK WTR		12/04/12	12/05/12	MB1 121204
WG124465-2	LCS		CVTSS	BLANK WTR		12/04/12	12/05/12	LEVEL1
WG124465-3	LD		CVTSS	FRESH WTR		12/04/12	12/05/12	L56979-13
WG124465-4	MB		CVTSS	BLANK WTR		12/04/12	12/05/12	MB2 121204
WG124465-5	LCS		CVTSS	BLANK WTR		12/04/12	12/05/12	LEVEL1
WG124465-6	MB		CVTSS	BLANK WTR		12/04/12	12/05/12	MB2 121204
WG124465-7	LCS		CVTSS	BLANK WTR		12/04/12	12/05/12	LEVEL1
WG124465-8	LD		CVTSS	STORM WTR		12/04/12	12/05/12	L56869-6

WG124802

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56869-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
L56869-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
L56869-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
L56869-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
L56869-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
L56869-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	12/03/12	12/26/12	12/26/12	
WG124802-1	MB		MTICPMS	BLANK WTR		12/26/12	12/26/12	METHOD BLANK
WG124802-2	SB		MTICPMS	BLANK WTR		12/26/12	12/26/12	WG124802-1 MS-20
WG124802-3	LD		MTICPMS	STORM WTR		12/26/12	12/26/12	L56869-1 RPD-LIQ
WG124802-4	MS		MTICPMS	STORM WTR		12/26/12	12/26/12	L56869-1 MS-20

WG124836

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56869-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISSL	STORM WTR	12/03/12	12/31/12	12/31/12	
L56869-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISSL	STORM WTR	12/03/12	12/31/12	12/31/12	
L56869-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISSL	STORM WTR	12/03/12	12/31/12	12/31/12	
L56869-4	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISSL	STORM WTR	12/03/12	12/31/12	12/31/12	
L56869-5	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISSL	STORM WTR	12/03/12	12/31/12	12/31/12	
L56869-6	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISSL	STORM WTR	12/03/12	12/31/12	12/31/12	

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WG124836-1	MB	MTICPMS-DISS	BLANK WTR	12/31/12	12/31/12	METHOD BLANK
WG124836-2	SB	MTICPMS-DISS	BLANK WTR	12/31/12	12/31/12	WG124836-1 MS-20
WG124836-3	LD	MTICPMS-DISS	STORM WTR	12/31/12	12/31/12	L56869-1 RPD-LIQ
WG124836-4	MS	MTICPMS-DISS	STORM WTR	12/31/12	12/31/12	L56869-1 MS-20

WG124534

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Analysis Date	Comments
L56869-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
L56869-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
L56869-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
L56869-4	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
L56869-5	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
L56869-6	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	12/03/12	12/10/12	12/12/12	
WG124534-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		12/10/12	12/12/12	MB121210
WG124534-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		12/10/12	12/12/12	WG124534-1
WG124534-3	MS		ORPAH-SIM-LVI-LL	STORM WTR		12/10/12	12/12/12	L56869-2
WG124534-4	MSD		ORPAH-SIM-LVI-LL	STORM WTR		12/10/12	12/12/12	WG124534-3 L56869-2

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WG124541

MB:WG124541-1 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG124541-2 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD

(Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	10	9.88	99		85--115

SB:WG124541-3 MB:WG124541-1 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD

(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	<MDL	10	10.2	102		80--120

LD:WG124541-4 L56869-2 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	3.5	3.77	7		0--20

MS:WG124541-5 L56869-5 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD

(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	3.57	10	13.5	99		75--125

MB:WG124541-6 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Organic Carbon	0.5	1	mg/L	<MDL	

LCS:WG124541-7 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD

(Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	10	9.92	99		85--115

SB:WG124541-8 MB:WG124541-6 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD

(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.2	102		80--120

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LD:WG124541-9 L56869-3 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.08	3.98	2		0--20

MS:WG124541-10 L56869-5 Matrix: STORM WTR Listtype:CVTOC Method:SM5310-B Project:423589-330-4 Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	4.51	10	14.5	100		75--125

LD:WG124541-11 L56923-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-DUGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.24	1.28	3		0--20

MS:WG124541-12 L56925-3 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-CFGW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.13	10	12.1	109		75--125

WG124465

MB:WG124465-1 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG124465-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	92	92		80--120

LD:WG124465-3 L56979-13 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421235 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	<MDL	<MDL			0--25

MB:WG124465-4 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

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LCS:WG124465-5 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD

(Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	95	95		80--120

MB:WG124465-6 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Total Suspended Solids	0.5	1	mg/L	<MDL	

LCS:WG124465-7 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD

(Lab Control Sample)

Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	101	101		80--120

LD:WG124465-8 L56869-6 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	7.4	9	20		0--25

WG124802

MB:WG124802-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG124802-2 MB:WG124802-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD

(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19	95		85--115

LD:WG124802-3 L56869-1 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.793	0.774	2		0--20

MS:WG124802-4 L56869-1 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD

(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.793	20	19.7	94		75--125

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WG124836

MB:WG124836-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	

SB:WG124836-2 MB:WG124836-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD

(Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.7	98		85--115

LD:WG124836-3 L56869-1 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD

(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.598	0.581	3		0--20

MS:WG124836-4 L56869-1 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD

(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	0.598	20	20.4	99		75--125

WG124534

MB:WG124534-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD

(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Naphthalene	5E-04	0.005	ug/L	0.003	B
2-Methylnaphthalene	3E-04	0.003	ug/L	0.0011	B
Acenaphthylene	3E-04	0.002	ug/L	<MDL	
Acenaphthene	2E-04	0.002	ug/L	0.00022	B
Fluorene	2E-04	0.002	ug/L	0.00027	B
Phenanthrene	2E-04	0.002	ug/L	0.0015	B
Anthracene	3E-04	0.003	ug/L	<MDL	
Fluoranthene	2E-04	0.002	ug/L	0.00071	B
Pyrene	2E-04	0.002	ug/L	0.00064	B
Benzo(a)anthracene	3E-04	0.003	ug/L	0.00028	B
Chrysene	3E-04	0.003	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	5E-04	0.005	ug/L	<MDL	
Benzo(a)pyrene	5E-04	0.005	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	3E-04	0.003	ug/L	<MDL	

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Dibenzo(a,h)anthracene	4E-04	0.004	ug/L	<MDL
Benzo(g,h,i)perylene	3E-04	0.003	ug/L	<MDL
Total LPAHs	2E-04	0.002	ug/L	0.00499
Total HPAHS	2E-04	0.002	ug/L	0.00163

SB:WG124534-2 MB:WG124534-1 Matrix: BLANK WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project: Pkey:STD
 (Spike Blank, Method Blank)

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Naphthalene	5E-04	0.005	ug/L	0.003	0.1	0.0349	32	*	40--160
2-Methylnaphthalene	3E-04	0.003	ug/L	0.0011	0.1	0.0345	33	*	40--160
Acenaphthylene	3E-04	0.002	ug/L	<MDL	0.1	0.0833	83		40--160
Acenaphthene	2E-04	0.002	ug/L	0.00022	0.1	0.0578	58		40--160
Fluorene	2E-04	0.002	ug/L	0.00027	0.1	0.0798	80		40--160
Phenanthrene	2E-04	0.002	ug/L	0.0015	0.1	0.0825	81		40--160
Anthracene	3E-04	0.003	ug/L	<MDL	0.1	0.0879	88		40--160
Fluoranthene	2E-04	0.002	ug/L	0.00071	0.1	0.105	104		40--160
Pyrene	2E-04	0.002	ug/L	0.00064	0.1	0.0993	99		40--160
Benzo(a)anthracene	3E-04	0.003	ug/L	0.00028	0.1	0.0965	96		40--160
Chrysene	3E-04	0.003	ug/L	<MDL	0.1	0.106	106		40--160
Benzo(b,j,k)fluoranthene	5E-04	0.005	ug/L	<MDL	0.2	0.261	130		40--160
Benzo(a)pyrene	5E-04	0.005	ug/L	<MDL	0.1	0.128	128		40--160
Indeno(1,2,3-Cd)Pyrene	3E-04	0.003	ug/L	<MDL	0.1	0.128	128		40--160
Dibenzo(a,h)anthracene	4E-04	0.004	ug/L	<MDL	0.1	0.126	126		40--160
Benzo(g,h,i)perylene	3E-04	0.003	ug/L	<MDL	0.1	0.114	114		40--160

MSD:WG124534-4 MS:WG124534-3 L56869-2 Matrix: STORM WTR Listtype:ORPAH-SIM-LVI-LL Method:SW846 3520C*8270D SIM Project:423589-330-4 Pkey:STD
 (Matrix Spike Duplicate, Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit	TrueValue	MSD Value	% Rec.	Qual	RPD	Qual	LabLimit
Naphthalene	5E-04	0.005	ug/L	0.0121	0.0943	0.0654	57		40--160	0.0943	0.0686	60	5		0--40	
2-Methylnaphthalene	3E-04	0.003	ug/L	0.00807	0.0943	0.0635	59		40--160	0.0943	0.0675	63	6		0--40	
Acenaphthylene	2E-04	0.002	ug/L	0.00081	0.0943	0.0786	82		40--160	0.0943	0.0821	86	4		0--40	
Acenaphthene	1E-04	0.001	ug/L	0.0012	0.0943	0.0606	63		40--160	0.0943	0.0629	65	4		0--40	
Fluorene	1E-04	0.001	ug/L	0.0014	0.0943	0.0729	76		40--160	0.0943	0.0762	79	4		0--40	
Phenanthrene	2E-04	0.001	ug/L	0.00515	0.0943	0.0802	80		40--160	0.0943	0.0782	77	2		0--40	
Anthracene	2E-04	0.002	ug/L	0.00091	0.0943	0.0909	95		40--160	0.0943	0.0869	91	5		0--40	
Fluoranthene	2E-04	0.002	ug/L	0.00762	0.0943	0.117	116		40--160	0.0943	0.116	115	1		0--40	
Pyrene	2E-04	0.002	ug/L	0.00596	0.0943	0.0962	96		40--160	0.0943	0.0925	92	4		0--40	
Benzo(a)anthracene	2E-04	0.002	ug/L	0.0019	0.0943	0.102	106		40--160	0.0943	0.0998	104	2		0--40	
Chrysene	2E-04	0.002	ug/L	0.00349	0.0943	0.104	107		40--160	0.0943	0.105	108	1		0--40	
Benzo(b,j,k)fluoranthene	5E-04	0.005	ug/L	0.0084	0.189	0.254	130		40--160	0.189	0.255	131	0		0--40	
Benzo(a)pyrene	5E-04	0.005	ug/L	0.0035	0.0943	0.132	136		40--160	0.0943	0.134	139	2		0--40	

LIMSView QC Report for Green River Integrated Water Samples - Data Validation for Storm Samples

Indeno(1,2,3-Cd)Pyrene	2E-04	0.002	ug/L	0.00379	0.0943	0.128	132	40--160	0.0943	0.134	138	4	0--40
Dibenzo(a,h)anthracene	3E-04	0.003	ug/L	0.00093	0.0943	0.114	119	40--160	0.0943	0.126	133	10	0--40
Benzo(g,h,i)perylene	3E-04	0.003	ug/L	0.00428	0.0943	0.113	115	40--160	0.0943	0.118	121	5	0--40
Surrogate:													
(Lab Limits)				2-Fluorobiphenyl	d14-Terphenyl								
				40--160		40--160							
L56869-1				50		102							
L56869-2				56		95							
L56869-3				51		103							
L56869-4				59		109							
L56869-5				54		100							
L56869-6				59		94							
WG124534-1				68		129							
WG124534-2				31 *		103							
WG124534-3				49		108							
WG124534-4				52		108							



Laboratory Data Consultants, Inc.

7750 El Camino Real, Ste. 2L Carlsbad, CA 92009

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Fax 760.634.0439

King County Environmental Laboratory
322 W. Ewing Street
Seattle WA 98119
ATTN: Mr. Fritz Grothkopp

February 27, 2013

SUBJECT: Lower Duwamish Waterway, Data Validation

Dear Mr. Grothkopp,

Enclosed is the final validation report for the fraction listed below. This SDG was received on December 1, 2011. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 26805-2:

SDG # **Fraction**

DPWG38021 Polychlorinated Biphenyls as Congeners

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- Green River Loading Study Sampling and Analysis Plan, Final, October 2011
- EPA Region 10 SOP for the Validation of Polychlorinated Dibensodioxin(PCDD) and Polychlorinated Dibenzofuran(PCDF) Data, Revision 2.0, January 1996

Please feel free to contact us if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Stella Cuenco".

Stella S. Cuenco
Operations Manager/Senior Chemist

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CONTINUATION

DC #2680E King County Seattle WA 98102 Duwamish Water

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Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample counts do not include MS/MSD and DUPS.

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Lower Duwamish Waterway
Collection Date: September 6 through September 15, 2011
LDC Report Date: May 15, 2012
Matrix: Water
Parameters: Polychlorinated Biphenyls as Congeners
Validation Level: EPA Level III
Laboratory: AXYS Analytical Services Ltd.
Sample Delivery Group (SDG): DPWG38021

Sample Identification

L54090-1
L54090-2
L54090-3
L54117-1
L54117-2
L54117-3
L54117-4
L54125-1
L54125-4
L54125-3
L54147-1
L54147-2
L54147-3
L54147-4
L54148-1
L54148-2
L54149-1
L54149-2
L54117-1DUP

Introduction

This data review covers 19 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1668A for Polychlorinated Biphenyls as Congeners.

This review follows the Green River Loading Study Sampling and Analysis Plan (Final October 2011) and EPA Region 10 SOP for the Validation of Polychlorinated Dibenzodioxin (PCDD) and Polychlorinated Dibenzofuran (PCDF) Data (Revision 2.0, January 31, 1996).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
 - J1 Blank Contamination: Indicates possible high bias and/or false positives.
 - J2 Calibration Range exceeded: Indicates possible low bias.
 - J3 Holding times not met: Indicates low bias for most analytes.
 - J4 Other QC parameters outside control limits: bias not readily determined.
 - J5 Other QC parameters outside control limits. The reported results appear to be biased high. The actual value of target compound in the sample may be lower than the value reported by the laboratory.
 - J6 Other QC parameters outside control limits. The reported results appear to be biased low. The actual value of target compound in the sample may be higher than the value reported by the laboratory.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures.

Cooler temperatures for all samples were reported at 9°C upon receipt by the laboratory.

All cooler temperatures met validation criteria.

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all congeners. The chromatographic resolution between the congeners PCB-23 and PCB-34 and congeners PCB-182 and PCB-187 was resolved with a valley of less than or equal to 40%.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The ion abundance ratios for all PCBs were within method criteria.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 30.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The ion abundance ratios for all PCBs were within method criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyls as congeners contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
WG37726-101	9/23/11	PCB-1 PCB-2 PCB-3 PCB-7 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCBs 45 + 51 PCBs 49 + 69 PCBs 50 + 53 PCB-60 PCBs 61 + 70 + 74 + 76 PCB-66 PCB-77 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 PCB-209 Total Monochloro Biphenyls Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Decachloro Biphenyl Total PCBs	1.85 pg/L 1.36 pg/L 3.12 pg/L 15.5 pg/L 1.63 pg/L 9.50 pg/L 2.20 pg/L 0.874 pg/L 0.669 pg/L 2.03 pg/L 4.49 pg/L 1.50 pg/L 1.49 pg/L 2.55 pg/L 0.827 pg/L 1.22 pg/L 1.94 pg/L 0.881 pg/L 1.66 pg/L 0.542 pg/L 0.820 pg/L 6.26 pg/L 2.49 pg/L 0.655 pg/L 1.30 pg/L 5.01 pg/L 3.51 pg/L 1.74 pg/L 5.22 pg/L 3.36 pg/L 2.19 pg/L 1.49 pg/L 1.29 pg/L 6.33 pg/L 28.8 pg/L 15.7 pg/L 15.2 pg/L 20.1 pg/L 2.19 pg/L 1.49 pg/L 1.29 pg/L 91.2 pg/L	All samples in SDG DPWG38021

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
L54090-1	PCB-1 PCB-2 PCB-3 PCB-11 PCB-15 PCBs 20 + 28 PCB-22 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCBs 50 + 53 PCB-60 PCB-77 PCB-84 PCBs 147 + 149 Total Monochloro Biphenyls	1.99 pg/L 1.19 pg/L 3.48 pg/L 19.6 pg/L 7.17 pg/L 20.3 pg/L 6.57 pg/L 3.93 pg/L 6.10 pg/L 4.95 pg/L 1.14 pg/L 3.42 pg/L 2.75 pg/L 5.45 pg/L 10.1 pg/L 6.66 pg/L	1.99U pg/L 1.19U pg/L 3.48U pg/L 19.6U pg/L 7.17U pg/L 20.3U pg/L 6.57U pg/L 3.93U pg/L 6.10U pg/L 4.95U pg/L 1.14U pg/L 3.42U pg/L 2.75U pg/L 5.45U pg/L 10.1U pg/L 6.66U pg/L
L54090-2	PCB-2 PCB-7 PCB-11 PCB-16 PCB-17 PCBs 21 + 33 PCB-22 PCB-32 PCB-60 PCBs 61 + 70 + 74 +76 PCB-84	1.04 pg/L 3.49 pg/L 20.0 pg/L 2.08 pg/L 2.67 pg/L 3.17 pg/L 2.54 pg/L 1.38 pg/L 1.83 pg/L 9.75 pg/L 2.67 pg/L	1.04U pg/L 3.49U pg/L 20.0U pg/L 2.08U pg/L 2.67U pg/L 3.17U pg/L 2.54U pg/L 1.38U pg/L 1.83U pg/L 9.75U pg/L 2.67U pg/L
L54090-3	PCB-1 PCB-3 PCB-7 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCBs 49 + 69 PCBs 50 + 53 PCB-60 PCBs 61 + 70 + 74 +76 PCB-77 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCB-118 PCB-187 Total Monochloro Biphenyls	2.31 pg/L 4.00 pg/L 3.08 pg/L 3.70 pg/L 12.6 pg/L 3.90 pg/L 2.14 pg/L 2.30 pg/L 3.54 pg/L 6.45 pg/L 2.48 pg/L 1.38 pg/L 4.17 pg/L 1.19 pg/L 2.04 pg/L 2.69 pg/L 4.73 pg/L 1.10 pg/L 0.704 pg/L 8.48 pg/L 1.36 pg/L 12.2 pg/L 11.1 pg/L 3.67 pg/L 14.8 pg/L 8.89 pg/L 5.79 pg/L 6.31 pg/L	2.31U pg/L 4.00U pg/L 3.08U pg/L 3.70U pg/L 12.6U pg/L 3.90U pg/L 2.14U pg/L 2.30U pg/L 3.54U pg/L 6.45U pg/L 2.48U pg/L 1.38U pg/L 4.17U pg/L 1.19U pg/L 2.04U pg/L 2.69U pg/L 4.73U pg/L 1.10U pg/L 0.704U pg/L 8.48U pg/L 1.36U pg/L 12.2U pg/L 11.1U pg/L 3.67U pg/L 14.8U pg/L 8.89U pg/L 5.79U pg/L 6.31U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L54117-1	PCB-1 PCB-2 PCB-3 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCBs 49 + 69 PCBs 61 + 70 + 74 +76 PCB-66 PCB-77 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 PCB-209 Total Monochloro Biphenyls Decachloro Biphenyl	1.46 pg/L 1.40 pg/L 3.01 pg/L 4.52 pg/L 12.2 pg/L 3.16 pg/L 2.46 pg/L 2.54 pg/L 4.02 pg/L 5.73 pg/L 2.64 pg/L 1.69 pg/L 4.15 pg/L 0.792 pg/L 1.33 pg/L 2.34 pg/L 2.84 pg/L 6.57 pg/L 2.60 pg/L 0.835 pg/L 1.72 pg/L 6.62 pg/L 6.24 pg/L 2.87 pg/L 7.98 pg/L 5.73 pg/L 4.89 pg/L 1.86 pg/L 1.56 pg/L 5.87 pg/L 1.56 pg/L	1.46U pg/L 1.40U pg/L 3.01U pg/L 4.52U pg/L 12.2U pg/L 3.16U pg/L 2.46U pg/L 2.54U pg/L 4.02U pg/L 5.73U pg/L 2.64U pg/L 1.69U pg/L 4.15U pg/L 0.792U pg/L 1.33U pg/L 2.34U pg/L 2.84U pg/L 6.57U pg/L 2.60U pg/L 0.835U pg/L 1.72U pg/L 6.62U pg/L 6.24U pg/L 2.87U pg/L 7.98U pg/L 5.73U pg/L 4.89U pg/L 1.86U pg/L 1.56U pg/L 5.87U pg/L 1.56U pg/L
L54117-1DUP	PCB-1 PCB-2 PCB-3 PCB-7 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 49 + 69 PCBs 50 + 53 PCBs 61 + 70 + 74 +76 PCB-66 PCB-77 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 Total Monochloro Biphenyls	1.61 pg/L 1.24 pg/L 3.17 pg/L 2.45 pg/L 4.74 pg/L 13.7 pg/L 4.00 pg/L 2.24 pg/L 2.65 pg/L 7.75 pg/L 3.31 pg/L 2.25 pg/L 4.82 pg/L 1.74 pg/L 1.40 pg/L 4.06 pg/L 1.14 pg/L 8.72 pg/L 3.92 pg/L 0.604 pg/L 2.79 pg/L 6.69 pg/L 6.03 pg/L 3.17 pg/L 8.54 pg/L 6.02 pg/L	1.61U pg/L 1.24U pg/L 3.17U pg/L 2.45U pg/L 4.74U pg/L 13.7U pg/L 4.00U pg/L 2.24U pg/L 2.65U pg/L 7.75U pg/L 3.31U pg/L 2.25U pg/L 4.82U pg/L 1.74U pg/L 1.40U pg/L 4.06U pg/L 1.14U pg/L 8.72U pg/L 3.92U pg/L 0.604U pg/L 2.79U pg/L 6.69U pg/L 6.03U pg/L 3.17U pg/L 8.54U pg/L 6.02U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L54117-2	PCB-1	1.74 pg/L	1.74U pg/L
	PCB-2	1.00 pg/L	1.00U pg/L
	PCB-8	4.13 pg/L	4.13U pg/L
	PCB-11	14.0 pg/L	14.0U pg/L
	PCB-15	2.55 pg/L	2.55U pg/L
	PCBs 18 + 30	5.45 pg/L	5.45U pg/L
	PCBs 20 + 28	6.51 pg/L	6.51U pg/L
	PCBs 21 + 33	2.28 pg/L	2.28U pg/L
	PCB-22	2.47 pg/L	2.47U pg/L
	PCB-31	4.96 pg/L	4.96U pg/L
	PCB-32	1.44 pg/L	1.44U pg/L
	PCB-37	1.26 pg/L	1.26U pg/L
	PCBs 40 + 41 + 71	2.11 pg/L	2.11U pg/L
	PCBs 49 + 69	3.24 pg/L	3.24U pg/L
	PCB-60	0.940 pg/L	0.940U pg/L
	PCBs 61 + 70 + 74 + 76	7.82 pg/L	7.82U pg/L
	PCB-66	3.62 pg/L	3.62U pg/L
	PCBs 90 + 101 + 113	6.73 pg/L	6.73U pg/L
	PCBs 93 + 95 + 98 + 100 + 102	6.48 pg/L	6.48U pg/L
	PCB-105	2.92 pg/L	2.92U pg/L
	PCBs 110 + 115	9.18 pg/L	9.18U pg/L
	PCBs 147 + 149	4.07 pg/L	4.07U pg/L
	PCB-187	1.43 pg/L	1.43U pg/L
	Total Monochloro Biphenyls	2.74 pg/L	2.74U pg/L
L54117-3	PCB-1	1.52 pg/L	1.52U pg/L
	PCB-2	1.00 pg/L	1.00U pg/L
	PCB-3	2.33 pg/L	2.33U pg/L
	PCB-7	1.51 pg/L	1.51U pg/L
	PCB-8	3.83 pg/L	3.83U pg/L
	PCB-11	12.9 pg/L	12.9U pg/L
	PCB-15	2.37 pg/L	2.37U pg/L
	PCBs 18 + 30	4.41 pg/L	4.41U pg/L
	PCBs 20 + 28	5.65 pg/L	5.65U pg/L
	PCBs 21 + 33	2.11 pg/L	2.11U pg/L
	PCB-22	1.74 pg/L	1.74U pg/L
	PCB-31	3.72 pg/L	3.72U pg/L
	PCB-32	1.53 pg/L	1.53U pg/L
	PCB-37	1.12 pg/L	1.12U pg/L
	PCBs 40 + 41 + 71	2.70 pg/L	2.70U pg/L
	PCBs 49 + 69	3.71 pg/L	3.71U pg/L
	PCBs 50 + 53	1.06 pg/L	1.06U pg/L
	PCBs 61 + 70 + 74 + 76	7.93 pg/L	7.93U pg/L
	PCB-66	3.14 pg/L	3.14U pg/L
	PCB-84	3.66 pg/L	3.66U pg/L
	PCBs 93 + 95 + 98 + 100 + 102	10.4 pg/L	10.4U pg/L
	PCB-105	3.77 pg/L	3.77U pg/L
	PCBs 110 + 115	13.7 pg/L	13.7U pg/L
	PCB-118	7.62 pg/L	7.62U pg/L
	PCBs 147 + 149	9.96 pg/L	9.96U pg/L
	PCB-187	4.40 pg/L	4.40U pg/L
	Total Monochloro Biphenyls	4.85 pg/L	4.85U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L54117-4	PCB-1 PCB-2 PCB-3 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCB-60 PCBs 61 + 70 + 74 +76 PCB-66 PCB-77 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCBs 110 + 115 PCB-118 PCB-187 PCB-209 Total Monochloro Biphenyls Decachloro Biphenyl	1.60 pg/L 1.20 pg/L 2.97 pg/L 4.91 pg/L 30.7 pg/L 2.58 pg/L 2.75 pg/L 3.10 pg/L 5.00 pg/L 7.93 pg/L 4.93 pg/L 6.69 pg/L 1.55 pg/L 3.40 pg/L 4.32 pg/L 2.71 pg/L 19.9 pg/L 7.88 pg/L 2.40 pg/L 5.51 pg/L 18.2 pg/L 15.2 pg/L 22.8 pg/L 15.7 pg/L 4.89 pg/L 2.66 pg/L 5.77 pg/L 2.66 pg/L	1.60U pg/L 1.20U pg/L 2.97U pg/L 4.91U pg/L 30.7U pg/L 2.58U pg/L 2.75U pg/L 3.10U pg/L 5.00U pg/L 7.93U pg/L 4.93U pg/L 6.69U pg/L 1.55U pg/L 3.40U pg/L 4.32U pg/L 2.71U pg/L 19.9U pg/L 7.88U pg/L 2.40U pg/L 5.51U pg/L 18.2U pg/L 15.2U pg/L 22.8U pg/L 15.7U pg/L 4.89U pg/L 2.66U pg/L 5.77U pg/L 2.66U pg/L
L54125-1	PCB-1 PCB-3 PCB-8 PCB-11 PCB-15 PCB-17 PCBs 20 + 28 PCBs 21 + 33 PCB-31 PCB-32 PCBs 40 + 41 + 71 PCBs 49 + 69 PCB-60 PCBs 61 + 70 + 74 +76 PCB-66 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCB-118 PCB-187 PCB-209 Total Monochloro Biphenyls Decachloro Biphenyl	1.29 pg/L 2.71 pg/L 2.90 pg/L 11.9 pg/L 2.46 pg/L 1.29 pg/L 4.00 pg/L 2.02 pg/L 3.16 pg/L 0.964 pg/L 1.43 pg/L 2.32 pg/L 0.643 pg/L 5.89 pg/L 2.38 pg/L 7.08 pg/L 5.96 pg/L 2.52 pg/L 7.80 pg/L 5.58 pg/L 1.33 pg/L 1.71 pg/L 4.00 pg/L 1.71 pg/L	1.29U pg/L 2.71U pg/L 2.90U pg/L 11.9U pg/L 2.46U pg/L 1.29U pg/L 4.00U pg/L 2.02U pg/L 3.16U pg/L 0.964U pg/L 1.43U pg/L 2.32U pg/L 0.643U pg/L 5.89U pg/L 2.38U pg/L 7.08U pg/L 5.96U pg/L 2.52U pg/L 7.80U pg/L 5.58U pg/L 1.33U pg/L 1.71U pg/L 4.00U pg/L 1.71U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L54125-4	PCB-1 PCB-2 PCB-3 PCB-11 PCB-15 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-31 PCB-32 PCB-37 PCBs 49 + 69 PCBs 50 + 53 PCBs 61 + 70 + 74 +76 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 PCB-209 Total Monochloro Biphenyls Total Dichloro Biphenyls Decachloro Biphenyl	1.18 pg/L 0.974 pg/L 2.41 pg/L 10.5 pg/L 1.68 pg/L 2.28 pg/L 2.57 pg/L 4.14 pg/L 1.88 pg/L 2.59 pg/L 0.655 pg/L 1.16 pg/L 2.93 pg/L 0.660 pg/L 10.6 pg/L 4.09 pg/L 15.5 pg/L 10.5 pg/L 15.5 pg/L 9.93 pg/L 9.01 pg/L 2.11 pg/L 1.36 pg/L 4.56 pg/L 12.2 pg/L 1.36 pg/L	1.18U pg/L 0.974U pg/L 2.41U pg/L 10.5U pg/L 1.68U pg/L 2.28U pg/L 2.57U pg/L 4.14U pg/L 1.88U pg/L 2.59U pg/L 0.655U pg/L 1.16U pg/L 2.93U pg/L 0.660U pg/L 10.6U pg/L 4.09U pg/L 15.5U pg/L 10.5U pg/L 15.5U pg/L 9.93U pg/L 9.01U pg/L 2.11U pg/L 1.36U pg/L 4.56U pg/L 12.2U pg/L 1.36U pg/L
L54125-3	PCB-1 PCB-2 PCB-8 PCB-11 PCB-15 PCB-17 PCBs 20 + 28 PCB-22 PCB-31 PCB-37 PCBs 49 + 69 PCBs 50 + 53 PCBs 61 + 70 + 74 +76 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCB-118 PCB-187 PCB-209 Total Monochloro Biphenyls Total Dichloro Biphenyls Decachloro Biphenyl	1.60 pg/L 1.65 pg/L 3.01 pg/L 17.0 pg/L 2.44 pg/L 1.79 pg/L 5.66 pg/L 1.40 pg/L 3.60 pg/L 1.43 pg/L 5.33 pg/L 1.53 pg/L 9.46 pg/L 4.12 pg/L 14.6 pg/L 13.4 pg/L 5.09 pg/L 20.3 pg/L 8.52 pg/L 5.21 pg/L 4.39 pg/L 3.25 pg/L 22.5 pg/L 4.39 pg/L	1.60U pg/L 1.65U pg/L 3.01U pg/L 17.0U pg/L 2.44U pg/L 1.79U pg/L 5.66U pg/L 1.40U pg/L 3.60U pg/L 1.43U pg/L 5.33U pg/L 1.53U pg/L 9.46U pg/L 4.12U pg/L 14.6U pg/L 13.4U pg/L 5.09U pg/L 20.3U pg/L 8.52U pg/L 5.21U pg/L 4.39U pg/L 3.25U pg/L 22.5U pg/L 4.39U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L54147-1	PCB-1 PCB-2 PCB-3 PCB-8 PCB-11 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-37 PCBs 49 + 69 PCBs 61 + 70 + 74 + 76 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 Total Monochloro Biphenyls Total Dichloro Biphenyls Total Trichloro Biphenyls	1.32 pg/L 0.910 pg/L 2.10 pg/L 2.68 pg/L 9.87 pg/L 3.49 pg/L 1.48 pg/L 1.26 pg/L 2.83 pg/L 0.599 pg/L 2.48 pg/L 5.32 pg/L 1.71 pg/L 6.39 pg/L 5.59 pg/L 9.69 pg/L 4.66 pg/L 3.89 pg/L 1.19 pg/L 4.33 pg/L 12.6 pg/L 9.66 pg/L	1.32U pg/L 0.910U pg/L 2.10U pg/L 2.68U pg/L 9.87U pg/L 3.49U pg/L 1.48U pg/L 1.26U pg/L 2.83U pg/L 0.599U pg/L 2.48U pg/L 5.32U pg/L 1.71U pg/L 6.39U pg/L 5.59U pg/L 9.69U pg/L 4.66U pg/L 3.89U pg/L 1.19U pg/L 4.33U pg/L 12.6U pg/L 9.66U pg/L
L54147-2	PCB-1 PCB-3 PCB-8 PCB-11 PCB-15 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-37 PCBs 40 + 41 + 71 PCBs 50 + 53 PCB-60 PCBs 61 + 70 + 74 + 76 PCB-66 PCB-77 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 Total Monochloro Biphenyls	2.00 pg/L 2.85 pg/L 4.61 pg/L 18.7 pg/L 2.66 pg/L 5.07 pg/L 6.26 pg/L 3.52 pg/L 2.45 pg/L 4.97 pg/L 1.79 pg/L 3.37 pg/L 1.12 pg/L 1.63 pg/L 11.8 pg/L 5.09 pg/L 1.41 pg/L 4.74 pg/L 13.0 pg/L 11.5 pg/L 16.4 pg/L 8.73 pg/L 8.93 pg/L 3.79 pg/L 4.85 pg/L	2.00U pg/L 2.85U pg/L 4.61U pg/L 18.7U pg/L 2.66U pg/L 5.07U pg/L 6.26U pg/L 3.52U pg/L 2.45U pg/L 4.97U pg/L 1.79U pg/L 3.37U pg/L 1.12U pg/L 1.63U pg/L 11.8U pg/L 5.09U pg/L 1.41U pg/L 4.74U pg/L 13.0U pg/L 11.5U pg/L 16.4U pg/L 8.73U pg/L 8.93U pg/L 3.79U pg/L 4.85U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L54147-3	PCB-1	2.54 pg/L	2.54U pg/L
	PCB-3	2.79 pg/L	2.79U pg/L
	PCB-8	4.28 pg/L	4.28U pg/L
	PCB-11	17.0 pg/L	17.0U pg/L
	PCB-15	2.86 pg/L	2.86U pg/L
	PCB-16	3.89 pg/L	3.89U pg/L
	PCB-17	3.68 pg/L	3.68U pg/L
	PCBs 18 + 30	6.70 pg/L	6.70U pg/L
	PCBs 20 + 28	7.60 pg/L	7.60U pg/L
	PCB-22	2.47 pg/L	2.47U pg/L
	PCB-31	5.95 pg/L	5.95U pg/L
	PCB-32	1.79 pg/L	1.79U pg/L
	PCBs 40 + 41 + 71	3.35 pg/L	3.35U pg/L
	PCBs 49 + 69	5.16 pg/L	5.16U pg/L
	PCBs 50 + 53	1.24 pg/L	1.24U pg/L
	PCBs 61 + 70 + 74 +76	12.0 pg/L	12.0U pg/L
	PCB-66	5.65 pg/L	5.65U pg/L
	PCB-77	1.01 pg/L	1.01U pg/L
	PCBs 93 + 95 + 98 + 100 + 102	15.3 pg/L	15.3U pg/L
	PCB-105	5.15 pg/L	5.15U pg/L
	PCBs 110 + 115	20.0 pg/L	20.0U pg/L
	PCB-118	9.83 pg/L	9.83U pg/L
	PCB-187	6.78 pg/L	6.78U pg/L
	PCB-209	1.64 pg/L	1.64U pg/L
	Total Monochloro Biphenyls	5.33 pg/L	5.33U pg/L
	Decachloro Biphenyl	1.64 pg/L	1.64U pg/L
L54147-4	PCB-2	1.49 pg/L	1.49U pg/L
	PCB-8	2.90 pg/L	2.90U pg/L
	PCB-11	14.8 pg/L	14.8U pg/L
	PCB-15	3.33 pg/L	3.33U pg/L
	PCBs 18 + 30	3.30 pg/L	3.30U pg/L
	PCBs 20 + 28	6.08 pg/L	6.08U pg/L
	PCBs 21 + 33	2.32 pg/L	2.32U pg/L
	PCB-22	1.94 pg/L	1.94U pg/L
	PCB-31	3.87 pg/L	3.87U pg/L
	PCB-32	0.843 pg/L	0.843U pg/L
	PCBs 50 + 53	0.772 pg/L	0.772U pg/L
	PCB-60	1.13 pg/L	1.13U pg/L
	PCBs 61 + 70 + 74 +76	8.87 pg/L	8.87U pg/L
	PCB-66	3.61 pg/L	3.61U pg/L
	PCBs 93 + 95 + 98 + 100 + 102	6.50 pg/L	6.50U pg/L
	PCB-105	2.39 pg/L	2.39U pg/L
	PCBs 110 + 115	7.57 pg/L	7.57U pg/L
	PCBs 147 + 149	5.31 pg/L	5.31U pg/L
	PCB-187	1.87 pg/L	1.87U pg/L
	PCB-209	1.58 pg/L	1.58U pg/L
	Total Monochloro Biphenyls	1.49 pg/L	1.49U pg/L
	Total Dichloro Biphenyls	21.0 pg/L	21.0U pg/L
	Decachloro Biphenyl	1.58 pg/L	1.58U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L54148-1	PCB-1 PCB-3 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCB-60 PCBs 61 + 70 + 74 +76 PCB-66 PCB-77 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCBs 110 + 115 PCB-118 PCB-187 Total Monochloro Biphenyls	2.06 pg/L 3.27 pg/L 4.17 pg/L 15.2 pg/L 3.97 pg/L 1.92 pg/L 2.43 pg/L 5.44 pg/L 7.65 pg/L 3.12 pg/L 2.96 pg/L 3.92 pg/L 1.48 pg/L 3.33 pg/L 3.57 pg/L 1.87 pg/L 10.9 pg/L 5.28 pg/L 2.18 pg/L 11.5 pg/L 13.6 pg/L 23.8 pg/L 11.5 pg/L 5.72 pg/L 5.33 pg/L	2.06U pg/L 3.27U pg/L 4.17U pg/L 15.2U pg/L 3.97U pg/L 1.92U pg/L 2.43U pg/L 5.44U pg/L 7.65U pg/L 3.12U pg/L 2.96U pg/L 3.92U pg/L 1.48U pg/L 3.33U pg/L 3.57U pg/L 1.87U pg/L 10.9U pg/L 5.28U pg/L 2.18U pg/L 11.5U pg/L 13.6U pg/L 23.8U pg/L 11.5U pg/L 5.72U pg/L 5.33U pg/L
L54148-2	PCB-1 PCB-2 PCB-3 PCB-8 PCB-11 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCB-60 PCBs 61 + 70 + 74 +76 PCB-66 PCB-77 PCB-209 Total Monochloro Biphenyls Decachloro Biphenyl	2.21 pg/L 1.61 pg/L 3.66 pg/L 6.37 pg/L 34.5 pg/L 4.31 pg/L 4.84 pg/L 8.90 pg/L 14.2 pg/L 6.51 pg/L 5.46 pg/L 10.2 pg/L 3.17 pg/L 3.83 pg/L 7.47 pg/L 3.64 pg/L 27.1 pg/L 11.6 pg/L 2.70 pg/L 2.36 pg/L 7.48 pg/L 2.36 pg/L	2.21U pg/L 1.61U pg/L 3.66U pg/L 6.37U pg/L 34.5U pg/L 4.31U pg/L 4.84U pg/L 8.90U pg/L 14.2U pg/L 6.51U pg/L 5.46U pg/L 10.2U pg/L 3.17U pg/L 3.83U pg/L 7.47U pg/L 3.64U pg/L 27.1U pg/L 11.6U pg/L 2.70U pg/L 2.36U pg/L 7.48U pg/L 2.36U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L54149-1	PCB-1 PCB-2 PCB-3 PCB-7 PCB-8 PCB-11 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCBs 49 + 69 PCBs 50 + 53 PCBs 61 + 70 + 74 +76 PCB-66 PCBs 90 + 101 + 113 PCB-105 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 Total Monochloro Biphenyls Total Dichloro Biphenyls	2.21 pg/L 1.79 pg/L 3.27 pg/L 5.06 pg/L 3.51 pg/L 14.6 pg/L 5.63 pg/L 6.86 pg/L 2.69 pg/L 2.90 pg/L 5.15 pg/L 1.56 pg/L 4.22 pg/L 1.15 pg/L 11.5 pg/L 4.17 pg/L 7.90 pg/L 3.21 pg/L 12.5 pg/L 7.11 pg/L 5.87 pg/L 2.57 pg/L 7.27 pg/L 23.2 pg/L	2.21U pg/L 1.79U pg/L 3.27U pg/L 5.06U pg/L 3.51U pg/L 14.6U pg/L 5.63U pg/L 6.86U pg/L 2.69U pg/L 2.90U pg/L 5.15U pg/L 1.56U pg/L 4.22U pg/L 1.15U pg/L 11.5U pg/L 4.17U pg/L 7.90U pg/L 3.21U pg/L 12.5U pg/L 7.11U pg/L 5.87U pg/L 2.57U pg/L 7.27U pg/L 23.2U pg/L
L54149-2	PCB-1 PCB-2 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCBs 49 + 69 PCBs 50 + 53 PCB-60 PCBs 61 + 70 + 74 +76 PCB-66 PCB-77 PCBs 90 + 101 + 113 PCB-105 PCBs 110 + 115 PCB-118 PCB-209 Total Monochloro Biphenyls Total Dichloro Biphenyls Decachloro Biphenyl	2.49 pg/L 2.30 pg/L 23.1 pg/L 4.06 pg/L 3.51 pg/L 4.40 pg/L 7.37 pg/L 11.7 pg/L 5.38 pg/L 4.06 pg/L 7.93 pg/L 2.05 pg/L 2.76 pg/L 5.29 pg/L 6.50 pg/L 2.21 pg/L 1.83 pg/L 17.1 pg/L 7.11 pg/L 1.35 pg/L 19.8 pg/L 5.72 pg/L 24.8 pg/L 12.9 pg/L 2.52 pg/L 4.79 pg/L 27.2 pg/L 2.52 pg/L	2.49U pg/L 2.30U pg/L 23.1U pg/L 4.06U pg/L 3.51U pg/L 4.40U pg/L 7.37U pg/L 11.7U pg/L 5.38U pg/L 4.06U pg/L 7.93U pg/L 2.05U pg/L 2.76U pg/L 5.29U pg/L 6.50U pg/L 2.21U pg/L 1.83U pg/L 17.1U pg/L 7.11U pg/L 1.35U pg/L 19.8U pg/L 5.72U pg/L 24.8U pg/L 12.9U pg/L 2.52U pg/L 4.79U pg/L 27.2U pg/L 2.52U pg/L

Method blank results flagged "K" by the laboratory as estimated maximum possible concentration (EMPC) were considered not detected.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Ongoing Precision & Recovery Samples (OPR)

Ongoing precision and recovery (OPR) control samples were reviewed for each matrix as applicable. The percent recoveries (%R) and relative percent differences (RPD) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries (%R) were within QC limits with the following exceptions:

Sample	Internal Standards	%R (Limits)	Compound	Flag	A or P
L54148-1	¹³ C-PCB-155 ¹³ C-PCB-188	20.9 (25-150) 23.9 (25-150)	PCBs 128 + 166 PCB 129 + 138 + 160 + 163 PCB-130 PCB-131 PCB-132 PCB-133 PCBs 134 + 143 PCBs 135 + 151 + 154 PCB-136 PCB-137 PCBs 139 + 140 PCB-141 PCB-142 PCB-144 PCB-145 PCB-146 PCBs 147 + 149 PCB-148 PCB-150 PCB-152 PCBs 153 + 168 PCB-155 PCBs 156 + 167 PCB-158 PCB-159 PCB-161 PCB-162 PCB-164 PCB-165 PCB-167 PCB-169 PCB-170 PCBs 171 + 173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCBs 180 + 193 PCB-181 PCB-182 PCBs 183 + 185 PCB-184 PCB-186 PCB-187 PCB-188 PCB-189 PCB-190 PCB-191 PCB-192 Total Hexachloro Biphenyls Total Heptachloro Biphenyls	J (all detects) UJ (all non-detects)	P

X. Target Compound Identifications

Raw data were not reviewed for this SDG.

XI. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDG DPWG38021	All TCL compounds flagged "K" by the laboratory as estimated maximum possible concentration.	U	A

Raw data were not reviewed for this SDG.

XII. System Performance

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Lower Duwamish Waterway**Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG
DPWG38021**

SDG	Sample	Compound	Flag	A or P	Reason
DPWG38021	L54148-1	PCBs 128 + 166 PCB 129 + 138 + 160 + 163 PCB-130 PCB-131 PCB-132 PCB-133 PCBs 134 + 143 PCBs 135 + 151 + 154 PCB-136 PCB-137 PCBs 139 + 140 PCB-141 PCB-142 PCB-144 PCB-145 PCB-146 PCBs 147 + 149 PCB-148 PCB-150 PCB-152 PCBs 153 + 168 PCB-155 PCBs 156 + 167 PCB-158 PCB-159 PCB-161 PCB-162 PCB-164 PCB-165 PCB-167 PCB-169 PCB-170 PCBs 171 + 173 PCB-172 PCB-174 PCB-175 PCB-176 PCB-177 PCB-178 PCB-179 PCBs 180 + 193 PCB-181 PCB-182 PCBs 183 + 185 PCB-184 PCB-186 PCB-187 PCB-188 PCB-189 PCB-190 PCB-191 PCB-192 Total Hexachloro Biphenyls Total Heptachloro Biphenyls	J (all detects) UJ (all non-detects)	P	Internal standards (%R)

SDG	Sample	Compound	Flag	A or P	Reason
DPWG38021	L54090-1 L54090-2 L54090-3 L54117-1 L54117-2 L54117-3 L54117-4 L54125-1 L54125-4 L54125-3 L54147-1 L54147-2 L54147-3 L54147-4 L54148-1 L54148-2 L54149-1 L54149-2 L54117-1DUP	All TCL compounds flagged "K" by the laboratory as estimated maximum possible concentration.	U	A	Compound quantitation and RLs (EMPC)

**Lower Duwamish Waterway
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG DPWG38021**

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG38021	L54090-1	PCB-1 PCB-2 PCB-3 PCB-11 PCB-15 PCBs 20 + 28 PCB-22 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCBs 50 + 53 PCB-60 PCB-77 PCB-84 PCBs 147 + 149 Total Monochloro Biphenyls	1.99U pg/L 1.19U pg/L 3.48U pg/L 19.6U pg/L 7.17U pg/L 20.3U pg/L 6.57U pg/L 3.93U pg/L 6.10U pg/L 4.95U pg/L 1.14U pg/L 3.42U pg/L 2.75U pg/L 5.45U pg/L 10.1U pg/L 6.66U pg/L	A
DPWG38021	L54090-2	PCB-2 PCB-7 PCB-11 PCB-16 PCB-17 PCBs 21 + 33 PCB-22 PCB-32 PCB-60 PCBs 61 + 70 + 74 + 76 PCB-84	1.04U pg/L 3.49U pg/L 20.0U pg/L 2.08U pg/L 2.67U pg/L 3.17U pg/L 2.54U pg/L 1.38U pg/L 1.83U pg/L 9.75U pg/L 2.67U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG38021	L54090-3	PCB-1 PCB-3 PCB-7 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCBs 49 + 69 PCBs 50 + 53 PCB-60 PCBs 61 + 70 + 74 + 76 PCB-77 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCB-118 PCB-187 Total Monochloro Biphenyls	2.31U pg/L 4.00U pg/L 3.08U pg/L 3.70U pg/L 12.6U pg/L 3.90U pg/L 2.14U pg/L 2.30U pg/L 3.54U pg/L 6.45U pg/L 2.48U pg/L 1.38U pg/L 4.17U pg/L 1.19U pg/L 2.04U pg/L 2.69U pg/L 4.73U pg/L 1.10U pg/L 0.704U pg/L 8.48U pg/L 1.36U pg/L 12.2U pg/L 11.1U pg/L 3.67U pg/L 14.8U pg/L 8.89U pg/L 5.79U pg/L 6.31U pg/L	A
DPWG38021	L54117-1	PCB-1 PCB-2 PCB-3 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCBs 49 + 69 PCBs 61 + 70 + 74 + 76 PCB-66 PCB-77 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 PCB-209 Total Monochloro Biphenyls Decachloro Biphenyl	1.46U pg/L 1.40U pg/L 3.01U pg/L 4.52U pg/L 12.2U pg/L 3.16U pg/L 2.46U pg/L 2.54U pg/L 4.02U pg/L 5.73U pg/L 2.64U pg/L 1.69U pg/L 4.15U pg/L 0.792U pg/L 1.33U pg/L 2.34U pg/L 2.84U pg/L 6.57U pg/L 2.60U pg/L 0.835U pg/L 1.72U pg/L 6.62U pg/L 6.24U pg/L 2.87U pg/L 7.98U pg/L 5.73U pg/L 4.89U pg/L 1.86U pg/L 1.56U pg/L 5.87U pg/L 1.56U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG38021	L54117-1DUP	PCB-1 PCB-2 PCB-3 PCB-7 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 49 + 69 PCBs 50 + 53 PCBs 61 + 70 + 74 + 76 PCB-66 PCB-77 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 Total Monochloro Biphenyls	1.61U pg/L 1.24U pg/L 3.17U pg/L 2.45U pg/L 4.74U pg/L 13.7U pg/L 4.00U pg/L 2.24U pg/L 2.65U pg/L 7.75U pg/L 3.31U pg/L 2.25U pg/L 4.82U pg/L 1.74U pg/L 1.40U pg/L 4.06U pg/L 1.14U pg/L 8.72U pg/L 3.92U pg/L 0.604U pg/L 2.79U pg/L 6.69U pg/L 6.03U pg/L 3.17U pg/L 8.54U pg/L 6.02U pg/L	A
DPWG38021	L54117-2	PCB-1 PCB-2 PCB-8 PCB-11 PCB-15 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCBs 49 + 69 PCB-60 PCBs 61 + 70 + 74 + 76 PCB-66 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCBs 147 + 149 PCB-187 Total Monochloro Biphenyls	1.74U pg/L 1.00U pg/L 4.13U pg/L 14.0U pg/L 2.55U pg/L 5.45U pg/L 6.51U pg/L 2.28U pg/L 2.47U pg/L 4.96U pg/L 1.44U pg/L 1.26U pg/L 2.11U pg/L 3.24U pg/L 0.940U pg/L 7.82U pg/L 3.62U pg/L 6.73U pg/L 6.48U pg/L 2.92U pg/L 9.18U pg/L 4.07U pg/L 1.43U pg/L 2.74U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG38021	L54117-3	PCB-1 PCB-2 PCB-3 PCB-7 PCB-8 PCB-11 PCB-15 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCBs 49 + 69 PCBs 50 + 53 PCBs 61 + 70 + 74 + 76 PCB-66 PCB-84 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 Total Monochloro Biphenyls	1.52U pg/L 1.00U pg/L 2.33U pg/L 1.51U pg/L 3.83U pg/L 12.9U pg/L 2.37U pg/L 4.41U pg/L 5.65U pg/L 2.11U pg/L 1.74U pg/L 3.72U pg/L 1.53U pg/L 1.12U pg/L 2.70U pg/L 3.71U pg/L 1.06U pg/L 7.93U pg/L 3.14U pg/L 3.66U pg/L 10.4U pg/L 3.77U pg/L 13.7U pg/L 7.62U pg/L 9.96U pg/L 4.40U pg/L 4.85U pg/L	A
DPWG38021	L54117-4	PCB-1 PCB-2 PCB-3 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCB-60 PCBs 61 + 70 + 74 + 76 PCB-66 PCB-77 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCBs 110 + 115 PCB-118 PCB-187 PCB-209 Total Monochloro Biphenyls Decachloro Biphenyl	1.60U pg/L 1.20U pg/L 2.97U pg/L 4.91U pg/L 30.7U pg/L 2.58U pg/L 2.75U pg/L 3.10U pg/L 5.00U pg/L 7.93U pg/L 4.93U pg/L 6.69U pg/L 1.55U pg/L 3.40U pg/L 4.32U pg/L 2.71U pg/L 19.9U pg/L 7.88U pg/L 2.40U pg/L 5.51U pg/L 18.2U pg/L 15.2U pg/L 22.8U pg/L 15.7U pg/L 4.89U pg/L 2.66U pg/L 5.77U pg/L 2.66U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG38021	L54125-1	PCB-1 PCB-3 PCB-8 PCB-11 PCB-15 PCB-17 PCBs 20 + 28 PCBs 21 + 33 PCB-31 PCB-32 PCBs 40 + 41 + 71 PCBs 49 + 69 PCB-60 PCBs 61 + 70 + 74 + 76 PCB-66 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCB-118 PCB-187 PCB-209 Total Monochloro Biphenyls Decachloro Biphenyl	1.29U pg/L 2.71U pg/L 2.90U pg/L 11.9U pg/L 2.46U pg/L 1.29U pg/L 4.00U pg/L 2.02U pg/L 3.16U pg/L 0.964U pg/L 1.43U pg/L 2.32U pg/L 0.643U pg/L 5.89U pg/L 2.38U pg/L 7.08U pg/L 5.96U pg/L 2.52U pg/L 7.80U pg/L 5.58U pg/L 1.33U pg/L 1.71U pg/L 4.00U pg/L 1.71U pg/L	A
DPWG38021	L54125-4	PCB-1 PCB-2 PCB-3 PCB-11 PCB-15 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-31 PCB-32 PCB-37 PCBs 49 + 69 PCBs 50 + 53 PCBs 61 + 70 + 74 + 76 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 PCB-209 Total Monochloro Biphenyls Total Dichloro Biphenyls Decachloro Biphenyl	1.18U pg/L 0.974U pg/L 2.41U pg/L 10.5U pg/L 1.68U pg/L 2.28U pg/L 2.57U pg/L 4.14U pg/L 1.88U pg/L 2.59U pg/L 0.655U pg/L 1.16U pg/L 2.93U pg/L 0.660U pg/L 10.6U pg/L 4.09U pg/L 15.5U pg/L 10.5U pg/L 15.5U pg/L 9.93U pg/L 9.01U pg/L 2.11U pg/L 1.36U pg/L 4.56U pg/L 12.2U pg/L 1.36U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG38021	L54125-3	PCB-1 PCB-2 PCB-8 PCB-11 PCB-15 PCB-17 PCBs 20 + 28 PCB-22 PCB-31 PCB-37 PCBs 49 + 69 PCBs 50 + 53 PCBs 61 + 70 + 74 + 76 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCB-118 PCB-187 PCB-209 Total Monochloro Biphenyls Total Dichloro Biphenyls Decachloro Biphenyl	1.60U pg/L 1.65U pg/L 3.01U pg/L 17.0U pg/L 2.44U pg/L 1.79U pg/L 5.66U pg/L 1.40U pg/L 3.60U pg/L 1.43U pg/L 5.33U pg/L 1.53U pg/L 9.46U pg/L 4.12U pg/L 14.6U pg/L 13.4U pg/L 5.09U pg/L 20.3U pg/L 8.52U pg/L 5.21U pg/L 4.39U pg/L 3.25U pg/L 22.5U pg/L 4.39U pg/L	A
DPWG38021	L54147-1	PCB-1 PCB-2 PCB-3 PCB-8 PCB-11 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-37 PCBs 49 + 69 PCBs 61 + 70 + 74 + 76 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 Total Monochloro Biphenyls Total Dichloro Biphenyls Total Trichloro Biphenyls	1.32U pg/L 0.910U pg/L 2.10U pg/L 2.68U pg/L 9.87U pg/L 3.49U pg/L 1.48U pg/L 1.26U pg/L 2.83U pg/L 0.599U pg/L 2.48U pg/L 5.32U pg/L 1.71U pg/L 6.39U pg/L 5.59U pg/L 9.69U pg/L 4.66U pg/L 3.89U pg/L 1.19U pg/L 4.33U pg/L 12.6U pg/L 9.66U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG38021	L54147-2	PCB-1 PCB-3 PCB-8 PCB-11 PCB-15 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-37 PCBs 40 + 41 + 71 PCBs 50 + 53 PCB-60 PCBs 61 + 70 + 74 + 76 PCB-66 PCB-77 PCB-84 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 Total Monochloro Biphenyls	2.00U pg/L 2.85U pg/L 4.61U pg/L 18.7U pg/L 2.66U pg/L 5.07U pg/L 6.26U pg/L 3.52U pg/L 2.45U pg/L 4.97U pg/L 1.79U pg/L 3.37U pg/L 1.12U pg/L 1.63U pg/L 11.8U pg/L 5.09U pg/L 1.41U pg/L 4.74U pg/L 13.0U pg/L 11.5U pg/L 16.4U pg/L 8.73U pg/L 8.93U pg/L 3.79U pg/L 4.85U pg/L	A
DPWG38021	L54147-3	PCB-1 PCB-3 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCB-22 PCB-31 PCB-32 PCBs 40 + 41 + 71 PCBs 49 + 69 PCBs 50 + 53 PCBs 61 + 70 + 74 + 76 PCB-66 PCB-77 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCB-118 PCB-187 PCB-209 Total Monochloro Biphenyls Decachloro Biphenyl	2.54U pg/L 2.79U pg/L 4.28U pg/L 17.0U pg/L 2.86U pg/L 3.89U pg/L 3.68U pg/L 6.70U pg/L 7.60U pg/L 2.47U pg/L 5.95U pg/L 1.79U pg/L 3.35U pg/L 5.16U pg/L 1.24U pg/L 12.0U pg/L 5.65U pg/L 1.01U pg/L 15.3U pg/L 5.15U pg/L 20.0U pg/L 9.83U pg/L 6.78U pg/L 1.64U pg/L 5.33U pg/L 1.64U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG38021	L54147-4	PCB-2 PCB-8 PCB-11 PCB-15 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCBs 50 + 53 PCB-60 PCBs 61 + 70 + 74 +76 PCB-66 PCBs 93 + 95 + 98 + 100 + 102 PCB-105 PCBs 110 + 115 PCBs 147 + 149 PCB-187 PCB-209 Total Monochloro Biphenyls Total Dichloro Biphenyls Decachloro Biphenyl	1.49U pg/L 2.90U pg/L 14.8U pg/L 3.33U pg/L 3.30U pg/L 6.08U pg/L 2.32U pg/L 1.94U pg/L 3.87U pg/L 0.843U pg/L 0.772U pg/L 1.13U pg/L 8.87U pg/L 3.61U pg/L 6.50U pg/L 2.39U pg/L 7.57U pg/L 5.31U pg/L 1.87U pg/L 1.58U pg/L 1.49U pg/L 21.0U pg/L 1.58U pg/L	A
DPWG38021	L54148-1	PCB-1 PCB-3 PCB-8 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCB-60 PCBs 61 + 70 + 74 +76 PCB-66 PCB-77 PCBs 90 + 101 + 113 PCBs 93 + 95 + 98 + 100 + 102 PCBs 110 + 115 PCB-118 PCB-187 Total Monochloro Biphenyls	2.06U pg/L 3.27U pg/L 4.17U pg/L 15.2U pg/L 3.97U pg/L 1.92U pg/L 2.43U pg/L 5.44U pg/L 7.65U pg/L 3.12U pg/L 2.96U pg/L 3.92U pg/L 1.48U pg/L 3.33U pg/L 3.57U pg/L 1.87U pg/L 10.9U pg/L 5.28U pg/L 2.18U pg/L 11.5U pg/L 13.6U pg/L 23.8U pg/L 11.5U pg/L 5.72U pg/L 5.33U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG38021	L54148-2	PCB-1 PCB-2 PCB-3 PCB-8 PCB-11 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCB-60 PCBs 61 + 70 + 74 +76 PCB-66 PCB-77 PCB-209 Total Monochloro Biphenyls Decachloro Biphenyl	2.21U pg/L 1.61U pg/L 3.66U pg/L 6.37U pg/L 34.5U pg/L 4.31U pg/L 4.84U pg/L 8.90U pg/L 14.2U pg/L 6.51U pg/L 5.46U pg/L 10.2U pg/L 3.17U pg/L 3.83U pg/L 7.47U pg/L 3.64U pg/L 27.1U pg/L 11.6U pg/L 2.70U pg/L 2.36U pg/L 7.48U pg/L 2.36U pg/L	A
DPWG38021	L54149-1	PCB-1 PCB-2 PCB-3 PCB-7 PCB-8 PCB-11 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCBs 49 + 69 PCBs 50 + 53 PCBs 61 + 70 + 74 +76 PCB-66 PCBs 90 + 101 + 113 PCB-105 PCBs 110 + 115 PCB-118 PCBs 147 + 149 PCB-187 Total Monochloro Biphenyls Total Dichloro Biphenyls	2.21U pg/L 1.79U pg/L 3.27U pg/L 5.06U pg/L 3.51U pg/L 14.6U pg/L 5.63U pg/L 6.86U pg/L 2.69U pg/L 2.90U pg/L 5.15U pg/L 1.56U pg/L 4.22U pg/L 1.15U pg/L 11.5U pg/L 4.17U pg/L 7.90U pg/L 3.21U pg/L 12.5U pg/L 7.11U pg/L 5.87U pg/L 2.57U pg/L 7.27U pg/L 23.2U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG38021	L54149-2	PCB-1 PCB-2 PCB-11 PCB-15 PCB-16 PCB-17 PCBs 18 + 30 PCBs 20 + 28 PCBs 21 + 33 PCB-22 PCB-31 PCB-32 PCB-37 PCBs 40 + 41 + 71 PCBs 49 + 69 PCBs 50 + 53 PCB-60 PCBs 61 + 70 + 74 +76 PCB-66 PCB-77 PCBs 90 + 101 + 113 PCB-105 PCBs 110 + 115 PCB-118 PCB-209 Total Monochloro Biphenyls Total Dichloro Biphenyls Decachloro Biphenyl	2.49U pg/L 2.30U pg/L 23.1U pg/L 4.06U pg/L 3.51U pg/L 4.40U pg/L 7.37U pg/L 11.7U pg/L 5.38U pg/L 4.06U pg/L 7.93U pg/L 2.05U pg/L 2.76U pg/L 5.29U pg/L 6.50U pg/L 2.21U pg/L 1.83U pg/L 17.1U pg/L 7.11U pg/L 1.35U pg/L 19.8U pg/L 5.72U pg/L 24.8U pg/L 12.9U pg/L 2.52U pg/L 4.79U pg/L 27.2U pg/L 2.52U pg/L	A

LDC #: 26805B31

SDG #: DPWG38021

Laboratory: Analytical Perspectives Services Ltd
AXYS

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 10/20/11

Page: 1 of 1

Reviewer: N

2nd Reviewer: P

METHOD: HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 9/6 - 9/15/11 cool temp 9°C (text)
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	20%
IV.	Routine calibration/ICV	A	CCV ≤ 30/50 %
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates /DUP	N/A	
VII.	Laboratory control samples	A	DPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	SW	
X.	Target compound identifications	N	
XI.	Compound quantitation RL/LOQ/LODs	N	
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note:
 A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L54090-1	11	L54147-1	21	WG37726-101	31	
2	L54090-2	12	L54147-2	22		32	
3	L54090-3	13	L54147-3	23		33	
4	L54117-1	14	L54147-4	24		34	
5	L54117-2	15	L54148-1	25		35	
6	L54117-3	16	L54148-2	26		36	
7	L54117-4	17	L54149-1	27		37	
8	L54125-1	18	L54149-2	28		38	
9	L54125-4	19	L54117-1DUP	29		39	
10	L54125-3	20		30		40	

VALIDATION FINDINGS WORKSHEET

Blanks

Page: 1 of 2
 Reviewer: C
 2nd Reviewer: C

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

 N N/A Were all samples associated with a method blank? Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? Y N N/A Was the method blank contaminated? If yes, please see qualification below.**Blank extraction date:** 9/23/11 **Blank analysis date:** 10/04/11**Conc. units:** pg/L**Associated samples:** All

Compound	Blank ID	Sample Identification					
		1	2	3	4	5	6
PCB 1	WG37726.101	5x	1.99/U	2.31/U	1.46/U	1.61/U	1.74/U
PCB 2	1.85	9.25	6.8	1.19/U	1.04/U	1.40/U	1.24/U
PCB 3	1.36	6.8	15.6	3.48/U	4.00/U	3.01/U	3.17/U
PCB 7	3.12	15.6	77.5	3.49/U	3.08/U		
PCB 8	15.5	77.5	8.15		3.70/U	4.52/U	4.74/U
PCB 11	1.63	8.15	47.5	19.6/U	20.0/U	12.6/U	12.2/U
PCB 15	9.50	47.5	2.20	11	7.17/U	3.90/U	3.16/U
PCB 16	2.20	11	4.37		2.08/U	2.14/U	2.46/U
PCB 17	0.874	4.37	0.669	3.345	2.67/U	2.30/U	2.54/U
PCBs 18 + 30	0.874	0.669	2.03	10.15		3.54/U	4.02/U
PCBs 20 + 28	0.669	2.03	4.49	22.45	20.3/U	6.45/U	5.73/U
PCBs 21 + 33	2.03	4.49	1.50	7.5	3.17/U	2.48/U	2.64/U
PCB 22	2.03	1.50	7.45	7.45	6.57/U	2.54/U	1.38/U
PCB 31	4.49	7.45	2.55	12.75		4.17/U	1.69/U
PCB 32	1.49	2.55	0.827	4.135	3.93/U	1.38/U	1.19/U
PCB 37	1.49	0.827	4.135	1.22	6.1	6.10/U	2.04/U
PCBs 40 + 41 + 71	1.49	1.22	1.94	9.7	4.95/U	2.69/U	2.34/U
PCBs 45 + 51	1.49	1.94	0.881	4.405			
PCBs 49 + 69	1.49	0.881	1.66	8.3	4.73/U	2.84/U	4.06/U
PCBs 50 + 53	1.49	1.66	0.542	2.71	1.14/U	1.10/U	1.14/U
PCB 60	1.49	0.542	0.820	4.1	3.42/U	1.83/U	0.704/U
							0.940/U
							2.71/U

Compound	Blank ID	Sample Identification						
		1	2	3	4	5	6	7
PCBs 61 + 70 + 74 + 76	WG37726.101	5x						
PCB 66	6.26	31.3	9.75/U	8.48/U	6.57/U	8.72/U	7.82/U	7.93/U
PCB 77	2.49	12.45			2.60/U	3.92/U	3.62/U	3.14/U
PCB 84	0.655	3.275	2.75/U		1.36/U	0.835/U	0.604/U	
PCBs 90 + 101 + 113	1.30	6.5	5.45/U	2.67/U		1.72/U		
PCBs 93 + 95 + 98 + 100 + 102	5.01	25.05			12.2/U	6.62/U	6.69/U	6.73/U
PCB 105	1.74	8.7			11.1/U	6.24/U	6.03/U	6.48/U
PCBs 110 + 115	5.22	26.1			14.8/U	7.98/U	8.54/U	9.18/U
PCB 118	3.36	16.8			8.89/U	5.73/U		
PCBs 147 + 149	2.19	10.95	10.1/U		4.89/U		4.07/U	9.96/U
PCB 187	1.49	7.45			5.79/U	1.86/U	1.43/U	4.40/U
PCB 209	1.29	6.45				1.56/U		2.66/U
Total Monochloro Biphenyls	6.33	31.65	6.66/U	6.31/U	5.87/U	6.02/U	2.74/U	4.85/U
Total Dichloro Biphenyls	28.8	144						
Total Trichloro Biphenyls	15.7	78.5						
Total Tetrachloro Biphenyls	15.2	76						
Total Pentachloro Biphenyls	20.1	100.5						
Total Hexachloro Biphenyls	2.19	10.95						
Total Heptachloro Biphenyls	1.49	7.45						
Decachloro Biphenyl	1.29	6.45				1.56/U		2.66/U
Total PCBs	91.2	456						

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
 All contaminants within five times the method blank concentration were qualified as not detected, "U".

Blanks

Page: 2 of 2
 Reviewer: J
 2nd Reviewer: S

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

 N N/A

Were all samples associated with a method blank?

 Y N N/A

Was a method blank performed for each matrix and whenever a sample extraction was performed?

 N N/A

Was the method blank contaminated? If yes, please see qualification below.

Blank extraction date: 9/23/11Blank analysis date: 10/04/11

Conc. units: pg/L

Associated samples: All

Compound	Blank ID	Sample Identification									
	WG37726-101	5x	8	9	10	11	12	13	14	15	
PCB 1	1.85	9.25	1.29/U	1.18/U	1.60/U	1.32/U	2.00/U	2.54/U			2.06/U
PCB 2	1.36	6.8		0.974/U	1.65/U	0.910/U					1.49/U
PCB 3	3.12	15.6	2.71/U	2.41/U		2.10/U	2.85/U	2.79/U			3.27/U
PCB 7	15.5	77.5									
PCB 8	1.63	8.15	2.90/U		3.01/U	2.68/U	4.61/U	4.28/U	2.90/U		4.17/U
PCB 11	9.50	47.5	11.9/U	10.5/U	17.0/U	9.87/U	18.7/U	17.0/U	14.8/U		15.2/U
PCB 15	2.20	11	2.46/U	1.68/U	2.44/U		2.66/U	2.86/U	3.33/U		3.97/U
PCB 16	0.874	4.37						3.89/U			1.92/U
PCB 17	0.669	3.345	1.29/U	2.28/U	1.79/U			3.68/U			2.43/U
PCBs 18 + 30	2.03	10.15		2.57/U			5.07/U	6.70/U	3.30/U		5.44/U
PCBs 20 + 28	4.49	22.45	4.00/U	4.14/U	5.66/U	3.49/U	6.26/U	7.60/U	6.08/U		7.65/U
PCBs 21 + 33	1.50	7.5	2.02/U	1.88/U		1.48/U	3.52/U		2.32/U		3.12/U
PCB 22	1.49	7.45			1.40/U	1.26/U	2.45/U	2.47/U	1.94/U		2.96/U
PCB 31	2.55	12.75	3.16/U	2.59/U	3.60/U	2.83/U	4.97/U	5.95/U	3.87/U		3.92/U
PCB 32	0.827	4.135	0.964/U	0.655/U				1.79/U	0.843/U		1.48/U
PCB 37	1.22	6.1		1.16/U	1.43/U	0.599/U	1.79/U				3.33/U
PCBs 40 + 41 + 71	1.94	9.7	1.43/U				3.37/U	3.35/U			3.57/U
PCBs 45 + 51	0.881	4.405									
PCBs 49 + 69	1.66	8.3	2.32/U	2.93/U	5.33/U	2.48/U		5.16/U			
PCBs 50 + 53	0.542	2.71			0.660/U	1.53/U		1.12/U	1.24/U	0.772/U	
PCB 60	0.820	4.1	0.643/U					1.63/U		1.13/U	1.87/U

Compound	Blank ID	Sample Identification									
	WG37726-101	5x	8	9	10	11	12	13	14	15	
PCBs 61 + 70 + 74 + 76	6.26	31.3	5.89/U	10.6/U	9.46/U	5.32/U	11.8/U	12.0/U	8.87/U	10.9/U	
PCB 66	2.49	12.45	2.38/U				5.09/U	5.65/U	3.61/U	5.28/U	
PCB 77	0.655	3.275					1.41/U	1.01/U		2.18/U	
PCB 84	1.30	6.5		4.09/U	4.12/U	1.71/U	4.74/U				
PCBs 90 + 101 + 113	5.01	25.05	7.08/U	15.5/U	14.6/U	6.39/U	13.0/U			11.5/U	
PCBs 93 + 95 + 98 + 100 + 102	3.51	17.55	5.96/U	10.5/U	13.4/U	5.59/U	11.5/U	15.3/U	6.50/U	13.6/U	
PCB 105	1.74	8.7	2.52/U			5.09/U			5.15/U	2.39/U	
PCBs 110 + 115	5.22	26.1	7.80/U	15.5/U	20.3/U	9.69/U	16.4/U	20.0/U	7.57/U	23.8/U	
PCB 118	3.36	16.8	5.58/U	9.93/U	8.52/U	4.66/U	8.73/U	9.83/U		11.5/U	
PCBs 147 + 149	2.19	10.95		9.01/U		3.89/U	8.93/U			5.31/U	
PCB 187	1.49	7.45	1.33/U	2.11/U	5.21/U	1.19/U	3.79/U	6.78/U	1.87/U	5.72/U	
PCB 209	1.29	6.45	1.71/U	1.36/U	4.39/U				1.64/U	1.58/U	
Total Monochloro Biphenyls	6.33	31.65	4.00/U	4.56/U	3.25/U	4.33/U	4.85/U	5.33/U	1.49/U	5.33/U	
Total Dichloro Biphenyls	28.8	144		12.2/U	22.5/U	12.6/U				21.0/U	
Total Trichloro Biphenyls	15.7	78.5				9.66/U					
Total Tetrachloro Biphenyls	15.2	76									
Total Pentachloro Biphenyls	20.1	100.5									
Total Hexachloro Biphenyls	2.19	10.95									
Total Heptachloro Biphenyls	1.49	7.45									
Decachloro Biphenyl	1.29	6.45	1.71/U	1.36/U	4.39/U			1.64/U	1.58/U		
Total PCBs	91.2	456									

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
 All contaminants within five times the method blank concentration were qualified as not detected, "U".

Blanks

Page: 2 of 2
 Reviewer: A
 2nd Reviewer: Q

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

N N/A Were all samples associated with a method blank?

Y N N/A Was a method blank performed for each matrix and whenever a sample extraction was performed?

Y N N/A Was the method blank contaminated? If yes, please see qualification below.

Blank extraction date: 9/23/11 Blank analysis date: 10/04/11
 Conc. units: pg/L

Associated samples: All

Compound	Blank ID	Sample Identification		
	WG37726.101	5x	16	17
PCB 1	1.85	9.25	2.21/U	2.49/U
PCB 2	1.36	6.8	1.61/U	1.79/U
PCB 3	3.12	15.6	3.66/U	3.27/U
PCB 7	15.5	77.5		5.06/U
PCB 8	1.63	8.15	6.37/U	3.51/U
PCB 11	9.50	47.5	34.5/U	14.6/U
PCB 15	2.20	11		4.06/U
PCB 16	0.874	4.37	4.31/U	3.51/U
PCB 17	0.669	3.345	4.84/U	4.40/U
PCBs 18 + 30	2.03	10.15	8.90/U	5.63/U
PCBs 20 + 28	4.49	22.45	14.2/U	6.86/U
PCBs 21 + 33	1.50	7.5	6.51/U	2.69/U
PCB 22	1.49	7.45	5.46/U	2.90/U
PCB 31	2.55	12.75	10.2/U	5.15/U
PCB 32	0.827	4.135	3.17/U	1.56/U
PCB 37	1.22	6.1	3.83/U	2.76/U
PCBs 40 + 41 + 71	1.94	9.7	7.47/U	5.29/U
PCBs 45 + 51	0.881	4.405		
PCBs 49 + 69	1.66	8.3		4.22/U
PCBs 50 + 53	0.542	2.71		1.15/U
PCB 60	0.820	4.1	3.64/U	1.83/U

Compound	Blank ID	Sample Identification		
	WfG37726-101	5x	16	17
PCBs 61 + 70 + 74 + 76	6.26	31.3	27.1/U	11.5/U
PCB 66	2.49	12.45	11.6/U	4.17/U
PCB 77	0.655	3.275	2.70/U	1.35/U
PCB 84	1.30	6.5		
PCBs 90 + 101 + 113	5.01	25.05		7.90/U
PCBs 93 + 95 + 98 + 100 + 102	3.51	17.55		19.8/U
PCB 105	1.74	8.7		3.21/U
PCBs 110 + 115	5.22	26.1		12.5/U
PCB 118	3.36	16.8		7.11/U
PCBs 147 + 149	2.19	10.95		5.87/U
PCB 187	1.49	7.45		2.57/U
PCB 209	1.29	6.45		2.36/U
Total Monochloro Biphenyls	6.33	31.65		7.48/U
Total Dichloro Biphenyls	28.8	144		23.2/U
Total Trichloro Biphenyls	15.7	78.5		27.2/U
Total Tetrachloro Biphenyls	15.2	76		7.27/U
Total Pentachloro Biphenyls	20.1	100.5		4.79/U
Total Hexachloro Biphenyls	2.19	10.95		
Total Heptachloro Biphenyls	1.49	7.45		
Decachloro Biphenyl	1.29	6.45		2.36/U
Total PCBs	91.2	456		2.52/U

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
 All contaminants within five times the method blank concentration were qualified as not detected, "U".

LDC #: 26805B33

VALIDATION FINDINGS WORKSHEET

Internal Standards

Page: ___ of ___

Reviewer: 4

2nd Reviewer: *d*

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y (N) N/A Are all internal standard recoveries were within the 25-150% criteria?

Was the Ion Abundance Ratio within criteria?

Was the Ion Abundance Ratio within criteria?
Was the S/N ratio all internal standard peaks > 10?

This page is part of a total report that contains information necessary for accreditation compliance.
 Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
2,2',4,4',6-PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5'-PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6'-PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6-PeCB	103		U		0.599 (S)		
2,2',4,6,6'-PeCB	104		U		0.559 (Q)		
2,3,3',4,4'-PeCB	105		K B J	5.47	0.559 (Q)	0.93	1.000
2,3,3',4,5-PeCB	106		U		0.775 (S)		
2,3,3',4',5-PeCB	107	107 + 124	C U		0.868 (S)		
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		K J	1.01	0.853 (S)	0.41	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	23.8	0.559 (Q)	1.46	0.925
2,3,3',5,5'-PeCB	111		U		0.559 (Q)		
2,3,3',5,6-PeCB	112		U		0.559 (Q)		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		J	1.66	0.771 (S)	1.50	1.000
2,3,4,4',6-PeCB	115	110 + 115	C110				
2,3,4,5,6-PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6-PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5-PeCB	118		B J	11.5	0.814 (S)	1.35	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		U		0.559 (Q)		
2,3',4,5',6-PeCB	121		U		0.559 (Q)		
2',3,3',4,5-PeCB	122		U		0.893 (S)		
2',3,4,4',5-PeCB	123		J	1.11	0.854 (S)	1.65	1.000
2',3,4,5,5'-PeCB	124	107 + 124	C107				
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5-PeCB	126		J	1.47	0.631 (S)	1.70	1.000
3,3',4,5,5'-PeCB	127		U		0.820 (S)		
2,2',3,3',4,4'-HxCB	128	128 + 166	C K J	3.55	0.627 (S)	0.96	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C K B J	16.4	0.630 (S)	0.89	0.928
2,2',3,3',4,5'-HxCB	130		K B J	1.26	0.777 (S)	1.94	0.913
2,2',3,3',4,6-HxCB	131		U		0.701 (S)		
2,2',3,3',4,6'-HxCB	132		K J	8.19	0.736 (S)	1.01	1.176
2,2',3,3',5,5'-HxCB	133		U		0.676 (S)		
2,2',3,3',5,6-HxCB	134	134 + 143	C K J	1.53	0.722 (S)	3.50	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C J	5.21	0.559 (Q)	1.14	1.105
2,2',3,3',6,6'-HxCB	136		K J	2.27	0.559 (Q)	1.57	1.025
2,2',3,4,4',5-HxCB	137		K J	1.11	0.764 (S)	2.55	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C U		0.665 (S)		
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		J	2.24	0.645 (S)	1.24	0.903
2,2',3,4,5,6-HxCB	142		U		0.732 (S)		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		K J	1.22	0.559 (Q)	0.92	1.122
2,2',3,4,6,6'-HxCB	145		U		0.559 (Q)		
2,2',3,4',5,5'-HxCB	146		K J	0.876	0.627 (S)	0.36	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B J	11.7	0.658 (S)	1.31	1.134
2,2',3,4',5,6'-HxCB	148		U		0.559 (Q)		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U		0.559 (Q)		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.559 (Q)		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B J	7.87	0.559 (Q)	1.38	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		K J	1.60	0.572 (S)	0.62	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C B J	4.20	0.559 (Q)	1.09	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		K J	1.23	0.559 (Q)	1.87	0.937
2,3,3',4,5,5'-HxCB	159		U		0.559 (Q)		
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				



This page is part of a total report that contains information necessary for accreditation compliance.
 Results are compliant with NELAP accreditation described in the total report. Sample results relate only to the sample tested.

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
2,3,3',4,5',6-HxCB	161		U		0.559 (Q)		
2,3,3',4',5,5'-HxCB	162		U		0.567 (S)		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		J	1.08	0.559 (Q)	1.36	0.921
2,3,3',5,5',6-HxCB	165		U		0.591 (S)		
2,3,4,4',5,6-HxCB	166	128 + 166	C128				
2,3',4,4',5,5'-HxCB	167		J	2.60	0.583 (S)	1.23	1.000
2,3',4,4',5',6-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		J	1.14	0.559 (Q)	1.09	1.000
2,2',3,3',4,4',5-HpCB	170		B J	7.77	0.927 (S)	1.05	1.001
2,2',3,3',4,4',6-HpCB	171	171 + 173	C K J	1.56	0.888 (S)	1.63	1.163
2,2',3,3',4,5,5'-HpCB	172		U		0.895 (S)		
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		B J	2.85	0.788 (S)	0.91	1.134
2,2',3,3',4,5',6-HpCB	175		U		0.790 (S)		
2,2',3,3',4,6,6'-HpCB	176		K J	0.764	0.604 (S)	6.37	1.034
2,2',3,3',4',5,6-HpCB	177		J	2.15	0.809 (S)	1.04	1.146
2,2',3,3',5,5',6-HpCB	178		U		0.790 (S)		
2,2',3,3',5,6,6'-HpCB	179		K J	1.92	0.584 (S)	0.42	1.010
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B J	6.12	0.751 (S)	0.97	1.000
2,2',3,4,4',5,6-HpCB	181		U		0.850 (S)		
2,2',3,4,4',5,6'-HpCB	182		J	2.44	0.789 (S)	1.20	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B J	2.67	0.819 (S)	0.96	1.128
2,2',3,4,4',6,6'-HpCB	184		U		0.577 (S)		
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.639 (S)		
2,2',3,4',5,5',6-HpCB	187		B J	5.72	0.748 (S)	0.97	1.110
2,2',3,4',5,6,6'-HpCB	188		U		0.585 (S)		
2,3,3',4,4',5,5'-HpCB	189		J	2.08	0.561 (S)	1.16	1.000
2,3,3',4,4',5,6-HpCB	190		K J	0.942	0.730 (S)	1.59	0.947
2,3,3',4,4',5',6-HpCB	191		U		0.695 (S)		
2,3,3',4,5,5',6-HpCB	192		U		0.781 (S)		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-Occb	194		K B J	2.42	0.774 (S)	1.29	0.991
2,2',3,3',4,4',5,6-Occb	195		U		0.830 (S)		
2,2',3,3',4,4',5,6'-Occb	196		K J	1.85	0.747 (S)	1.13	0.916
2,2',3,3',4,4',6,6'-Occb	197	197 + 200	C K J	0.631	0.559 (Q)	4.52	1.044
2,2',3,3',4,5,5',6-Occb	198	198 + 199	C K B J	2.65	0.761 (S)	0.62	1.115
2,2',3,3',4,5,5',6'-Occb	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-Occb	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-Occb	201		U		0.559 (Q)		
2,2',3,3',5,5',6,6'-Occb	202		K J	1.94	0.559 (Q)	1.20	1.000
2,2',3,4,4',5,5',6-Occb	203		K B J	1.32	0.721 (S)	0.74	0.919
2,2',3,4,4',5,6,6'-Occb	204		U		0.559 (Q)		
2,3,3',4,4',5,5',6-Occb	205		K J	1.65	0.604 (S)	1.25	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		U		2.28 (S)		
2,2',3,3',4,4',5,6,6'-NoCB	207		U		2.08 (S)		
2,2',3,3',4,5,5',6,6'-NoCB	208		U		2.05 (S)		
2,2',3,3',4,4',5,5',6,6'-DeCB	209		K B J	3.15	0.828 (S)	0.42	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; J = concentration less than lowest calibration equivalent; C = co-eluting congener.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = contract defined limit.

These data are validated and reported as accurate and in accord with AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Kirsten Anderson _____

For Axys Internal Use Only [XSL Template: Form16681A.xsl; Created: 20-Oct-2011 13:14:40; Application: XMLTransformer-1.11.11;
 Report Filename: 1668_PCB1668_PCBTF_L16921-15_Form1A_PB1B_235AS7_SJ1367778.html; Workgroup: WG37726; Design ID: 304]

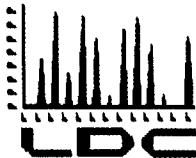


METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound? Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

Comments: See sample calculation verification worksheet for recalculations



Laboratory Data Consultants, Inc.

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King County Environmental Laboratory
322 W. Ewing Street
Seattle WA 98119
ATTN: Mr. Fritz Grothkopp

February 27, 2013

SUBJECT: LDW Green River Inputs, Data Validation

Dear Mr. Grothkopp,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on September 6, 2012. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 28363-3:

<u>SDG #</u>	<u>Fraction</u>
DPWG39655 & DPWG40324	Polychlorinated Biphenyls as Congeners

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- Green River Loading Study SAP, Final , October 2011
- EPA Region 10 SOP for the Validation of Polychlorinated Dibensodioxin (PCDD) and Polychlorinated Dibenzofuran (PCDF) Data, Revision 2.0, January 1996

Please feel free to contact us if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Stella Cuenco".

Stella S. Cuenco
Operations Manager/Senior Chemist

Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample counts do not include MS/MSD, and DUPS.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Lower Duwamish Waterway
Collection Date: November 16, 2011 through March 5, 2012
LDC Report Date: September 25, 2012
Matrix: Water
Parameters: Polychlorinated Biphenyls as Congeners
Validation Level: EPA Level III
Laboratory: AXYS Analytical Services, Ltd.
Sample Delivery Group (SDG): DPWG39655

Sample Identification

L54681-1
L54681-2
L54681-3
L54681-4
L54686-1
L54686-2
L54686-3
L54686-4
L54686-5
L54686-6
L55077-1
L55077-2
L55077-4
L55077-6
L55177-1
L55177-2
L55177-4
L55177-5
L55177-6
L54686-4DUP

Introduction

This data review covers 20 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1668A for Polychlorinated Biphenyls as Congeners.

This review follows the Green River Loading Study Sampling and Analysis Plan (Final October 2011) and EPA Region 10 SOP for the Validation of Polychlorinated Dibenzodioxin (PCDD) and Polychlorinated Dibenzofuran (PCDF) Data (Revision 2.0, January 31, 1996).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
 - J1 Blank Contamination: Indicates possible high bias and/or false positives.
 - J2 Calibration Range exceeded: Indicates possible low bias.
 - J3 Holding times not met: Indicates low bias for most analytes.
 - J4 Other QC parameters outside control limits: bias not readily determined.
 - J5 Other QC parameters outside control limits. The reported results appear to be biased high. The actual value of target compound in the sample may be lower than the value reported by the laboratory.
 - J6 Other QC parameters outside control limits. The reported results appear to be biased low. The actual value of target compound in the sample may be higher than the value reported by the laboratory.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all congeners. The chromatographic resolution between the congeners PCB-23 and PCB-34 and congeners PCB-182 and PCB-187 was resolved with a valley of less than or equal to 40%.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The ion abundance ratios for all PCBs were within method criteria.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 30.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The ion abundance ratios for all PCBs were within method criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyls as congeners contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
WG39377-101	3/12/12	PCB-1 PCB-2 PCB-3 PCB-7 PCB-15 PCB-20/28 PCB-21	2.00 pg/L 2.27 pg/L 6.94 pg/L 5.60 pg/L 4.14 pg/L 1.71 pg/L 0.844 pg/L	All samples in SDG DPWG39655

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
WG39377-101 (continued)	3/12/12	PCB-31 PCB-44/47/65 PCB-52 PCB-64 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 PCB-129/138/160/163 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Tetrachlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total PCBs	1.28 pg/L 2.41 pg/L 2.08 pg/L 0.602 pg/L 0.790 pg/L 1.82 pg/L 1.43 pg/L 1.39 pg/L 1.31 pg/L 0.567 pg/L 11.2 pg/L 9.74 pg/L 3.83 pg/L 5.88 pg/L 4.64 pg/L 1.31 pg/L 0.567 pg/L 37.2 pg/L	All samples in SDG DPWG39655

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
L54681-1	PCB-1 PCB-2 PCB-3 PCB-20/28 PCB-21 PCB-31 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.35 pg/L 3.00 pg/L 8.03 pg/L 4.59 pg/L 1.89 pg/L 2.41 pg/L 13.4 pg/L 10.1 pg/L	2.35U pg/L 3.00U pg/L 8.03U pg/L 4.59U pg/L 1.89U pg/L 2.41U pg/L 13.4U pg/L 10.1U pg/L
L54681-2	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 PCB-129/138/160/163 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.33 pg/L 2.72 pg/L 8.26 pg/L 5.71 pg/L 6.93 pg/L 1.56 pg/L 3.22 pg/L 5.86 pg/L 2.76 pg/L 5.03 pg/L 5.29 pg/L 4.51 pg/L 5.21 pg/L 1.84 pg/L 13.3 pg/L 14.3 pg/L	2.33U pg/L 2.72U pg/L 8.26U pg/L 5.71U pg/L 6.93U pg/L 1.56U pg/L 3.22U pg/L 5.86U pg/L 2.76U pg/L 5.03U pg/L 5.29U pg/L 4.51U pg/L 5.21U pg/L 1.84U pg/L 13.3U pg/L 14.3U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L54681-3	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-64 PCB-66 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.77 pg/L 3.38 pg/L 9.46 pg/L 5.42 pg/L 4.90 pg/L 1.86 pg/L 2.07 pg/L 6.81 pg/L 1.42 pg/L 2.77 pg/L 15.6 pg/L 11.8 pg/L	2.77U pg/L 3.38U pg/L 9.46U pg/L 5.42U pg/L 4.90U pg/L 1.86U pg/L 2.07U pg/L 6.81U pg/L 1.42U pg/L 2.77U pg/L 15.6U pg/L 11.8U pg/L
L54681-4	PCB-1 PCB-2 PCB-3 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-64 PCB-66 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls	2.30 pg/L 2.44 pg/L 7.90 pg/L 3.45 pg/L 1.08 pg/L 2.32 pg/L 7.67 pg/L 1.77 pg/L 2.90 pg/L 12.6 pg/L 6.99 pg/L 8.65 pg/L	2.30U pg/L 2.44U pg/L 7.90U pg/L 3.45U pg/L 1.08U pg/L 2.32U pg/L 7.67U pg/L 1.77U pg/L 2.90U pg/L 12.6U pg/L 6.99U pg/L 8.65U pg/L
L54686-1	PCB-1 PCB-2 PCB-3 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-64 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 Total Monochlorobiphenyls Total Trichlorobiphenyls	2.62 pg/L 2.96 pg/L 8.93 pg/L 4.90 pg/L 1.70 pg/L 2.05 pg/L 4.49 pg/L 1.07 pg/L 1.92 pg/L 6.80 pg/L 5.09 pg/L 14.5 pg/L 18.5 pg/L	2.62U pg/L 2.96U pg/L 8.93U pg/L 4.90U pg/L 1.70U pg/L 2.05U pg/L 4.49U pg/L 1.07U pg/L 1.92U pg/L 6.80U pg/L 5.09U pg/L 14.5U pg/L 18.5U pg/L
L54686-2	PCB-1 PCB-2 PCB-3 PCB-7 PCB-15 PCB-52 PCB-64 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.87 pg/L 3.14 pg/L 9.53 pg/L 3.34 pg/L 7.48 pg/L 7.44 pg/L 1.84 pg/L 8.40 pg/L 5.28 pg/L 4.90 pg/L 2.83 pg/L 15.5 pg/L 23.4 pg/L	2.87U pg/L 3.14U pg/L 9.53U pg/L 3.34U pg/L 7.48U pg/L 7.44U pg/L 1.84U pg/L 8.40U pg/L 5.28U pg/L 4.90U pg/L 2.83U pg/L 15.5U pg/L 23.4U pg/L
L54686-3	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-31 PCB-52 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.43 pg/L 3.16 pg/L 8.72 pg/L 4.99 pg/L 4.88 pg/L 2.45 pg/L 5.57 pg/L 14.3 pg/L 14.5 pg/L	2.43U pg/L 3.16U pg/L 8.72U pg/L 4.99U pg/L 4.88U pg/L 2.45U pg/L 5.57U pg/L 14.3U pg/L 14.5U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L54686-4	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-31 PCB-66 PCB-118 PCB-129/138/160/163 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls	2.45 pg/L 2.52 pg/L 8.54 pg/L 5.00 pg/L 5.82 pg/L 1.50 pg/L 3.32 pg/L 2.28 pg/L 2.69 pg/L 13.5 pg/L 13.1 pg/L 12.3 pg/L 4.32 pg/L 0.983 pg/L	2.45U pg/L 2.52U pg/L 8.54U pg/L 5.00U pg/L 5.82U pg/L 1.50U pg/L 3.32U pg/L 2.28U pg/L 2.69U pg/L 13.5U pg/L 13.1U pg/L 12.3U pg/L 4.32U pg/L 0.983U pg/L
L54686-4DUP	PCB-1 PCB-2 PCB-3 PCB-20/28 PCB-31 PCB-52 PCB-66 PCB-90/101/113 PCB-118 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls	2.61 pg/L 2.53 pg/L 7.20 pg/L 6.04 pg/L 1.94 pg/L 2.29 pg/L 3.71 pg/L 4.57 pg/L 2.86 pg/L 12.3 pg/L 7.85 pg/L 14.8 pg/L 1.18 pg/L	2.61U pg/L 2.53U pg/L 7.20U pg/L 6.04U pg/L 1.94U pg/L 2.29U pg/L 3.71U pg/L 4.57U pg/L 2.86U pg/L 12.3U pg/L 7.85U pg/L 14.8U pg/L 1.18U pg/L
L54686-5	PCB-1 PCB-2 PCB-3 PCB-7 PCB-15 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.26 pg/L 3.33 pg/L 7.86 pg/L 4.95 pg/L 7.30 pg/L 13.5 pg/L 30.4 pg/L	2.26U pg/L 3.33U pg/L 7.86U pg/L 4.95U pg/L 7.30U pg/L 13.5U pg/L 30.4U pg/L
L54686-6	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-31 PCB-52 PCB-64 Total Monochlorobiphenyls Total Dichlorobiphenyls	1.77 pg/L 1.84 pg/L 5.46 pg/L 4.12 pg/L 6.54 pg/L 3.23 pg/L 8.85 pg/L 2.10 pg/L 9.07 pg/L 15.5 pg/L	1.77U pg/L 1.84U pg/L 5.46U pg/L 4.12U pg/L 6.54U pg/L 3.23U pg/L 8.85U pg/L 2.10U pg/L 9.07U pg/L 15.5U pg/L
L55077-1	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-31 PCB-52 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.47 pg/L 2.75 pg/L 7.70 pg/L 4.50 pg/L 5.21 pg/L 1.72 pg/L 3.57 pg/L 2.88 pg/L 6.40 pg/L 4.97 pg/L 2.16 pg/L 12.9 pg/L 12.3 pg/L	2.47U pg/L 2.75U pg/L 7.70U pg/L 4.50U pg/L 5.21U pg/L 1.72U pg/L 3.57U pg/L 2.88U pg/L 6.40U pg/L 4.97U pg/L 2.16U pg/L 12.9U pg/L 12.3U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L55077-2	PCB-1 PCB-2 PCB-3 PCB-15 PCB-21 PCB-31 PCB-52 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.00 pg/L 2.48 pg/L 7.12 pg/L 6.40 pg/L 3.65 pg/L 6.05 pg/L 7.66 pg/L 3.90 pg/L 8.06 pg/L 5.59 pg/L 2.70 pg/L 11.6 pg/L 15.1 pg/L	2.00U pg/L 2.48U pg/L 7.12U pg/L 6.40U pg/L 3.65U pg/L 6.05U pg/L 7.66U pg/L 3.90U pg/L 8.06U pg/L 5.59U pg/L 2.70U pg/L 11.6U pg/L 15.1U pg/L
L55077-4	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-64 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 PCB-129/138/160/163 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Pentachlorobiphenyls Total Heptachlorobiphenyls	2.20 pg/L 2.52 pg/L 8.18 pg/L 5.70 pg/L 2.55 pg/L 2.83 pg/L 1.51 pg/L 2.62 pg/L 0.890 pg/L 1.38 pg/L 3.28 pg/L 2.97 pg/L 2.08 pg/L 2.41 pg/L 12.9 pg/L 12.7 pg/L 8.13 pg/L 11.3 pg/L 2.06 pg/L	2.20U pg/L 2.52U pg/L 8.18U pg/L 5.70U pg/L 2.55U pg/L 2.83U pg/L 1.51U pg/L 2.62U pg/L 0.890U pg/L 1.38U pg/L 3.28U pg/L 2.97U pg/L 2.08U pg/L 2.41U pg/L 12.9U pg/L 12.7U pg/L 8.13U pg/L 11.3U pg/L 2.06U pg/L
L55077-6	PCB-1 PCB-2 PCB-3 PCB-7 PCB-15 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.31 pg/L 2.48 pg/L 7.41 pg/L 7.47 pg/L 4.67 pg/L 4.95 pg/L 3.73 pg/L 2.20 pg/L 4.08 pg/L 2.24 pg/L 6.78 pg/L 5.68 pg/L 5.39 pg/L 12.2 pg/L 21.8 pg/L	2.31U pg/L 2.48U pg/L 7.41U pg/L 7.47U pg/L 4.67U pg/L 4.95U pg/L 3.73U pg/L 2.20U pg/L 4.08U pg/L 2.24U pg/L 6.78U pg/L 5.68U pg/L 5.39U pg/L 12.2U pg/L 21.8U pg/L
L55177-1	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-31 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls	2.12 pg/L 2.42 pg/L 6.53 pg/L 3.97 pg/L 3.33 pg/L 1.70 pg/L 2.58 pg/L 6.07 pg/L 5.10 pg/L 4.51 pg/L 1.93 pg/L 11.1 pg/L 12.5 pg/L 18.6 pg/L	2.12U pg/L 2.42U pg/L 6.53U pg/L 3.97U pg/L 3.33U pg/L 1.70U pg/L 2.58U pg/L 6.07U pg/L 5.10U pg/L 4.51U pg/L 1.93U pg/L 11.1U pg/L 12.5U pg/L 18.6U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L55177-2	PCB-1 PCB-2 PCB-3 PCB-7 PCB-15 PCB-52 PCB-64 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.35 pg/L 2.51 pg/L 8.00 pg/L 3.66 pg/L 6.34 pg/L 5.90 pg/L 2.07 pg/L 5.33 pg/L 4.77 pg/L 4.07 pg/L 1.97 pg/L 12.9 pg/L 19.4 pg/L	2.35U pg/L 2.51U pg/L 8.00U pg/L 3.66U pg/L 6.34U pg/L 5.90U pg/L 2.07U pg/L 5.33U pg/L 4.77U pg/L 4.07U pg/L 1.97U pg/L 12.9U pg/L 19.4U pg/L
L55177-4	PCB-1 PCB-2 PCB-3 PCB-7 PCB-15 PCB-20/28 PCB-31 PCB-52 PCB-64 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.59 pg/L 2.64 pg/L 9.33 pg/L 2.99 pg/L 6.46 pg/L 8.19 pg/L 5.06 pg/L 8.19 pg/L 1.51 pg/L 0.891 pg/L 14.6 pg/L 17.6 pg/L	2.59U pg/L 2.64U pg/L 9.33U pg/L 2.99U pg/L 6.46U pg/L 8.19U pg/L 5.06U pg/L 8.19U pg/L 1.51U pg/L 0.891U pg/L 14.6U pg/L 17.6U pg/L
L55177-5	PCB-1 PCB-2 PCB-3 PCB-15 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.77 pg/L 3.69 pg/L 8.38 pg/L 7.15 pg/L 14.8 pg/L 38.9 pg/L	2.77U pg/L 3.69U pg/L 8.38U pg/L 7.15U pg/L 14.8U pg/L 38.9U pg/L
L55177-6	PCB-1 PCB-3 PCB-20/28 PCB-31 PCB-52 PCB-64 PCB-66 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.21 pg/L 7.21 pg/L 5.56 pg/L 3.15 pg/L 6.20 pg/L 1.47 pg/L 3.67 pg/L 9.42 pg/L 10.4 pg/L	2.21U pg/L 7.21U pg/L 5.56U pg/L 3.15U pg/L 6.20U pg/L 1.47U pg/L 3.67U pg/L 9.42U pg/L 10.4U pg/L

Method blank results flagged "K" by the laboratory as estimated maximum possible concentration (EMPC) were considered not detected.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits.

VII. Ongoing Precision & Recovery Samples (OPR)

Ongoing precision and recovery (OPR) control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries (%R) were within QC limits.

X. Target Compound Identifications

Raw data were not reviewed for this SDG.

XI. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDG DPWG39655	All TCL compounds flagged "K" by the laboratory as estimated maximum possible concentration.	U	A

Raw data were not reviewed for this SDG.

XII. System Performance

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Lower Duwamish Waterway
Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG
DPWG39655

SDG	Sample	Compound	Flag	A or P	Reason
DPWG39655	L54681-1 L54681-2 L54681-3 L54681-4 L54686-1 L54686-2 L54686-3 L54686-4 L54686-5 L54686-6 L55077-1 L55077-2 L55077-4 L55077-6 L55177-1 L55177-2 L55177-4 L55177-5 L55177-6 L54686-4DUP	All TCL compounds flagged "K" by the laboratory as estimated maximum possible concentration.	U	A	Compound quantitation and RLs (EMPC)

Lower Duwamish Waterway
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG DPWG39655

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG39655	L54681-1	PCB-1 PCB-2 PCB-3 PCB-20/28 PCB-21 PCB-31 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.35U pg/L 3.00U pg/L 8.03U pg/L 4.59U pg/L 1.89U pg/L 2.41U pg/L 13.4U pg/L 10.1U pg/L	A
DPWG39655	L54681-2	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 PCB-129/138/160/163 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.33U pg/L 2.72U pg/L 8.26U pg/L 5.71U pg/L 6.93U pg/L 1.56U pg/L 3.22U pg/L 5.86U pg/L 2.76U pg/L 5.03U pg/L 5.29U pg/L 4.51U pg/L 5.21U pg/L 1.84U pg/L 13.3U pg/L 14.3U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG39655	L54681-3	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-64 PCB-66 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.77U pg/L 3.38U pg/L 9.46U pg/L 5.42U pg/L 4.90U pg/L 1.86U pg/L 2.07U pg/L 6.81U pg/L 1.42U pg/L 2.77U pg/L 15.6U pg/L 11.8U pg/L	A
DPWG39655	L54681-4	PCB-1 PCB-2 PCB-3 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-64 PCB-66 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls	2.30U pg/L 2.44U pg/L 7.90U pg/L 3.45U pg/L 1.08U pg/L 2.32U pg/L 7.67U pg/L 1.77U pg/L 2.90U pg/L 12.6U pg/L 6.99U pg/L 8.65U pg/L	A
DPWG39655	L54686-1	PCB-1 PCB-2 PCB-3 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-64 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 Total Monochlorobiphenyls Total Trichlorobiphenyls	2.62U pg/L 2.96U pg/L 8.93U pg/L 4.90U pg/L 1.70U pg/L 2.05U pg/L 4.49U pg/L 1.07U pg/L 1.92U pg/L 6.80U pg/L 5.09U pg/L 14.5U pg/L 18.5U pg/L	A
DPWG39655	L54686-2	PCB-1 PCB-2 PCB-3 PCB-7 PCB-15 PCB-52 PCB-64 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.87U pg/L 3.14U pg/L 9.53U pg/L 3.34U pg/L 7.48U pg/L 7.44U pg/L 1.84U pg/L 8.40U pg/L 5.28U pg/L 4.90U pg/L 2.83U pg/L 15.5U pg/L 23.4U pg/L	A
DPWG39655	L54686-3	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-31 PCB-52 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.43U pg/L 3.16U pg/L 8.72U pg/L 4.99U pg/L 4.88U pg/L 2.45U pg/L 5.57U pg/L 14.3U pg/L 14.5U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG39655	L54686-4	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-31 PCB-66 PCB-118 PCB-129/138/160/163 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls	2.45U pg/L 2.52U pg/L 8.54U pg/L 5.00U pg/L 5.82U pg/L 1.50U pg/L 3.32U pg/L 2.28U pg/L 2.69U pg/L 13.5U pg/L 13.1U pg/L 12.3U pg/L 4.32U pg/L 0.983U pg/L	A
DPWG39655	L54686-4DUP	PCB-1 PCB-2 PCB-3 PCB-20/28 PCB-31 PCB-52 PCB-66 PCB-90/101/113 PCB-118 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls	2.61U pg/L 2.53U pg/L 7.20U pg/L 6.04U pg/L 1.94U pg/L 2.29U pg/L 3.71U pg/L 4.57U pg/L 2.86U pg/L 12.3U pg/L 7.85U pg/L 14.8U pg/L 1.18U pg/L	A
DPWG39655	L54686-5	PCB-1 PCB-2 PCB-3 PCB-7 PCB-15 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.26U pg/L 3.33U pg/L 7.86U pg/L 4.95U pg/L 7.30U pg/L 13.5U pg/L 30.4U pg/L	A
DPWG39655	L54686-6	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-31 PCB-52 PCB-64 Total Monochlorobiphenyls Total Dichlorobiphenyls	1.77U pg/L 1.84U pg/L 5.46U pg/L 4.12U pg/L 6.54U pg/L 3.23U pg/L 8.85U pg/L 2.10U pg/L 9.07U pg/L 15.5U pg/L	A
DPWG39655	L55077-1	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-31 PCB-52 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.47U pg/L 2.75U pg/L 7.70U pg/L 4.50U pg/L 5.21U pg/L 1.72U pg/L 3.57U pg/L 2.88U pg/L 6.40U pg/L 4.97U pg/L 2.16U pg/L 12.9U pg/L 12.3U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG39655	L55077-2	PCB-1 PCB-2 PCB-3 PCB-15 PCB-21 PCB-31 PCB-52 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.00U pg/L 2.48U pg/L 7.12U pg/L 6.40U pg/L 3.65U pg/L 6.05U pg/L 7.66U pg/L 3.90U pg/L 3.90U pg/L 8.06U pg/L 5.59U pg/L 2.70U pg/L 11.6U pg/L 15.1U pg/L	A
DPWG39655	L55077-4	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-64 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 PCB-129/138/160/163 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Pentachlorobiphenyls Total Heptachlorobiphenyls	2.20U pg/L 2.52U pg/L 8.18U pg/L 5.70U pg/L 2.55U pg/L 2.83U pg/L 1.51U pg/L 2.62U pg/L 0.890U pg/L 1.38U pg/L 3.28U pg/L 2.97U pg/L 2.08U pg/L 2.41U pg/L 12.9U pg/L 12.7U pg/L 8.13U pg/L 11.3U pg/L 2.06U pg/L	A
DPWG39655	L55077-6	PCB-1 PCB-2 PCB-3 PCB-7 PCB-15 PCB-20/28 PCB-21 PCB-31 PCB-52 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.31U pg/L 2.48U pg/L 7.41U pg/L 7.47U pg/L 4.67U pg/L 4.95U pg/L 3.73U pg/L 2.20U pg/L 4.08U pg/L 2.24U pg/L 6.78U pg/L 5.68U pg/L 5.39U pg/L 12.2U pg/L 21.8U pg/L	A
DPWG39655	L55177-1	PCB-1 PCB-2 PCB-3 PCB-15 PCB-20/28 PCB-31 PCB-66 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls	2.12U pg/L 2.42U pg/L 6.53U pg/L 3.97U pg/L 3.33U pg/L 1.70U pg/L 2.58U pg/L 6.07U pg/L 5.10U pg/L 4.51U pg/L 1.93U pg/L 11.1U pg/L 12.5U pg/L 18.6U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG39655	L55177-2	PCB-1 PCB-2 PCB-3 PCB-7 PCB-15 PCB-52 PCB-64 PCB-90/101/113 PCB-93/95/98/100/102 PCB-118 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.35U pg/L 2.51U pg/L 8.00U pg/L 3.66U pg/L 6.34U pg/L 5.90U pg/L 2.07U pg/L 5.33U pg/L 4.77U pg/L 4.07U pg/L 1.97U pg/L 12.9U pg/L 19.4U pg/L	A
DPWG39655	L55177-4	PCB-1 PCB-2 PCB-3 PCB-7 PCB-15 PCB-20/28 PCB-31 PCB-52 PCB-64 PCB-187 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.59U pg/L 2.64U pg/L 9.33U pg/L 2.99U pg/L 6.46U pg/L 8.19U pg/L 5.06U pg/L 8.19U pg/L 1.51U pg/L 0.891U pg/L 14.6U pg/L 17.6U pg/L	A
DPWG39655	L55177-5	PCB-1 PCB-2 PCB-3 PCB-15 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.77U pg/L 3.69U pg/L 8.38U pg/L 7.15U pg/L 14.8U pg/L 38.9U pg/L	A
DPWG39655	L55177-6	PCB-1 PCB-3 PCB-20/28 PCB-31 PCB-52 PCB-64 PCB-66 Total Monochlorobiphenyls Total Dichlorobiphenyls	2.21U pg/L 7.21U pg/L 5.56U pg/L 3.15U pg/L 6.20U pg/L 1.47U pg/L 3.67U pg/L 9.42U pg/L 10.4U pg/L	A

LDC #: 28363H31

VALIDATION COMPLETENESS WORKSHEET

SDG #: DPWG39655

Level III

Laboratory: Analytical Perspectives/XY's

Date: 9/9/12

Page: 1 of 1

Reviewer: Q

2nd Reviewer: W

METHOD: HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 11/16/11 - 2/5/12
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	20/0
IV.	Routine calibration/ICV	A	30/50/0
V.	Blanks	N/A	
VI.	Matrix spike/Matrix spike duplicates /DUP	N/A	CS
VII.	Laboratory control samples	A	OK
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	
X.	Target compound identifications	N	
XI.	Compound quantitation RL/LOQ/LODs-	S/N	
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

1	L54681-1	11	L55077-1	21	WGE39377-101	31	
2	L54681-2	12	L55077-2	22		32	
3	L54681-3	13	L55077-4	23		33	
4	L54681-4	14	L55077-6	24		34	
5	L54686-1	15	L55177-1	25		35	
6	L54686-2	16	L55177-2	26		36	
7	L54686-3	17	L55177-4	27		37	
8	L54686-4	18	L55177-5	28		38	
9	L54686-5	19	L55177-6	29		39	
10	L54686-6	20	L54686-4DUP	30		40	

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
 Reviewer: CL
 2nd Reviewer: L

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)

Blank extraction date: 3/12/12
 Conc. units: pg/L

Blank analysis date: 3/15/12

Compound	Blank ID	Associated samples: All Qual U									
		Sample Identification									
	WG39377-101	5X	1	2	3	4	5	6	7	8	20
PCB 1	2.00	10	2.35	2.33	2.77	2.30	2.62	2.87	2.43	2.45	2.61
PCB 2	2.27	11.35	3.00	2.72	3.38	2.44	2.96	3.14	3.16	2.52	2.53
PCB 3	6.94	34.7	8.03	8.26	9.46	7.90	8.93	9.53	8.72	8.54	7.20
PCB 7	5.60	28							3.34		4.95
PCB 15	4.14	20.7			5.71	5.42			7.48	4.99	5.00
PCB 20/28	1.71	8.55	4.59	6.93	4.90	3.45	4.90		4.88	5.82	6.04
PCB 21	0.844	4.22	1.89	1.56	1.86	1.08	1.70				
PCB 31	1.28	6.4	2.41	3.22	2.07	2.32	2.05		2.45	1.50	1.94
PCB 44/47/65	2.41	12.05									6.54
PCB 52	2.08	10.4			5.86	6.81	7.67	4.49	7.44	5.57	
PCB 64	0.602	3.01				1.42	1.77	1.07	1.84		
PCB 66	0.790	3.95				2.76	2.77	2.90	1.92		
PCB 90/101/113	1.82	9.1			5.03			6.80	8.40		4.57
PCB 93/95/98/100/102	1.43	7.15			5.29			5.09	5.28		
PCB 118	1.39	6.95			4.51			4.90	2.28	2.86	
PCB 129/138/160/163	1.31	6.55			5.21				2.69		
PCB 187	0.567	2.835			1.84			2.83			
Total Monochlorobiphenyls	11.2	56	13.4	13.3	15.6	12.6	14.5	15.5	14.3	13.5	12.3
Total Dichlorobiphenyls	9.74	48.7	10.1	14.3	11.8	6.99		23.4	14.5	13.1	7.85
Total Trichlorobiphenyls	3.83	19.15					8.65	18.5			
Total Tetrachlorobiphenyls	5.88	29.4									
Total Pentachlorobiphenyls	4.64	23.2								12.3	14.8
Total Hexachlorobiphenyls	1.31	6.55								4.32	1.18

Compound	Blank ID	Sample Identification											
		5X	1	2	3	4	5	6	7	8	20	9	10
	WG39377-101												
Total Heptachlorobiphenyls	0.567	2.835										0.983	
Total PCBs	37.2	186											

*Method blank results flagged "K" by the laboratory as estimated maximum possible concentration (EMPC) were considered not detected.

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
 Reviewer: J
 2nd Reviewer: L

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)

Blank extraction date: 3/12/12 Blank analysis date: 3/15/12
 Conc. units: pg/L

Compound	Blank ID	Associated samples:									
		All	Qual U	Sample identification							
	WG39377-101	5X	11	12	13	14	15	16	17	18	19
PCB 1	2.00	10	2.47	2.00	2.20	2.31	2.12	2.35	2.59	2.77	2.21
PCB 2	2.27	11.35	2.75	2.48	2.52	2.48	2.42	2.51	2.64	3.69	
PCB 3	6.94	34.7	7.70	7.12	8.18	7.41	6.53	8.00	9.33	8.38	7.21
PCB 7	5.60	28				7.47		3.66	2.99		
PCB 15	4.14	20.7	4.50	6.40	5.70	4.67	3.97	6.34	6.46	7.15	
PCB 20/28	1.71	8.55	5.21		2.55	4.95	3.33		8.19		5.56
PCB 21	0.844	4.22		3.65	2.83	3.73					
PCB 31	1.28	6.4	1.72	6.05	1.51	2.20	1.70		5.06		3.15
PCB 44/47/65	2.41	12.05									
PCB 52	2.08	10.4	3.57	7.66	2.62	4.08		5.90	8.19	6.20	
PCB 64	0.602	3.01				0.890			2.07	1.51	1.47
PCB 66	0.790	3.95	2.88	3.90	1.38	2.24	2.58				3.67
PCB 90/101/113	1.82	9.1	6.40	8.06	3.28	6.78	6.07	5.33			
PCB 93/95/98/100/102	1.43	7.15	4.97	5.59	2.97	5.68	5.10	4.77			
PCB 118	1.39	6.95			2.08	5.39	4.51	4.07			
PCB 129/138/160/163	1.31	6.55			2.41						
PCB 187	0.567	2.835	2.16	2.70			1.93	1.97	0.891		
Total Monochlorobiphenyls	11.2	56	12.9	11.6	12.9	12.2	11.1	12.9	14.6	14.8	9.42
Total Dichlorobiphenyls	9.74	48.7	12.3	15.1	12.7	21.8	12.5	19.4	17.6	38.9	10.4
Total Trichlorobiphenyls	3.83	19.15				8.13	18.6				
Total Tetrachlorobiphenyls	5.88		29.4								
Total Pentachlorobiphenyls	4.64		23.2				11.3				
Total Hexachlorobiphenyls	1.31	6.55									

Compound	Blank ID	Sample Identification							
	WG39377-101	5X	11	12	13	14	15	16	17
Total Heptachlorobiphenyls	0.567	2.835			2.06				
Total PCBs	37.2	186							

*Method blank results flagged "K" by the laboratory as estimated maximum possible concentration (EMPC) were considered not detected.

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Lower Duwamish Waterway
Collection Date: March 10 through March 29, 2012
LDC Report Date: September 25, 2012
Matrix: Water
Parameters: Polychlorinated Biphenyls as Congeners
Validation Level: EPA Level III
Laboratory: AXYS Analytical Services, Ltd.
Sample Delivery Group (SDG): DPWG40324

Sample Identification

L55284-1
L55284-2
L55284-3
L55284-4
L55284-5
L55284-6
L55283-1
L55283-2
L55283-3
L55283-4
L55283-6
L55384-1
L55384-2
L55384-3
L55384-4
L55284-3DUP

Introduction

This data review covers 16 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA Method 1668A for Polychlorinated Biphenyls as Congeners.

This review follows the Green River Loading Study Sampling and Analysis Plan (Final October 2011) and EPA Region 10 SOP for the Validation of Polychlorinated Dibenzodioxin (PCDD) and Polychlorinated Dibenzofuran (PCDF) Data (Revision 2.0, January 31, 1996).

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
 - J1 Blank Contamination: Indicates possible high bias and/or false positives.
 - J2 Calibration Range exceeded: Indicates possible low bias.
 - J3 Holding times not met: Indicates low bias for most analytes.
 - J4 Other QC parameters outside control limits: bias not readily determined.
 - J5 Other QC parameters outside control limits. The reported results appear to be biased high. The actual value of target compound in the sample may be lower than the value reported by the laboratory.
 - J6 Other QC parameters outside control limits. The reported results appear to be biased low. The actual value of target compound in the sample may be higher than the value reported by the laboratory.
- R Quality control indicates the data is not usable.
- NJ Presumptive evidence of presence of the compound at an estimated quantity.
- UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. HRGC/HRMS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all congeners. The chromatographic resolution between the congeners PCB-23 and PCB-34 and congeners PCB-182 and PCB-187 was resolved with a valley of less than or equal to 40%.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

The ion abundance ratios for all PCBs were within method criteria.

IV. Routine Calibration

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 30.0% for unlabeled compounds and less than or equal to 50.0% for labeled compounds.

The ion abundance ratios for all PCBs were within method criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated biphenyls as congeners contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
WG40069-101	5/24/12	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 15 PCB 20/28 PCB 22 PCB 31 PCB 40 PCB 56 PCB 61/70/74/76 PCB 64 PCB 66 PCB 83/99 PCB 84 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 128/166 PCB 129/138/160/163 PCB 132 PCB 135/151/154 PCB 153/168 PCB 187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Tetrachlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls Total PCBs	1.16 pg/L 1.22 pg/L 2.32 pg/L 1.38 pg/L 9.80 pg/L 1.24 pg/L 1.54 pg/L 0.650 pg/L 1.14 pg/L 0.807 pg/L 1.02 pg/L 6.30 pg/L 0.941 pg/L 2.12 pg/L 3.54 pg/L 2.28 pg/L 1.67 pg/L 6.01 pg/L 0.766 pg/L 7.65 pg/L 1.40 pg/L 5.09 pg/L 2.61 pg/L 7.87 pg/L 5.73 pg/L 0.697 pg/L 4.13 pg/L 1.35 pg/L 1.40 pg/L 3.27 pg/L 1.19 pg/L 4.70 pg/L 12.4 pg/L 3.33 pg/L 11.2 pg/L 44.6 pg/L 10.8 pg/L 1.19 pg/L 88.3 pg/L	All samples in SDG DPWG40324

Sample concentrations were compared to concentrations detected in the method blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Compound	Reported Concentration	Modified Final Concentration
L55284-1	PCB 1	1.70 pg/L	1.70U pg/L
	PCB 2	1.78 pg/L	1.78U pg/L
	PCB 3	3.20 pg/L	3.20U pg/L
	PCB 8	2.56 pg/L	2.56U pg/L
	PCB 11	14.0 pg/L	14.0U pg/L
	PCB 20/28	4.21 pg/L	4.21U pg/L
	PCB 31	2.69 pg/L	2.69U pg/L
	PCB 40	1.87 pg/L	1.87U pg/L
	PCB 56	1.55 pg/L	1.55U pg/L
	PCB 61/70/74/76	11.1 pg/L	11.1U pg/L
	PCB 64	1.96 pg/L	1.96U pg/L
	PCB 66	4.29 pg/L	4.29U pg/L
	PCB 83/99	10.6 pg/L	10.6U pg/L
	PCB 84	3.87 pg/L	3.87U pg/L
	PCB 85/116/117	3.50 pg/L	3.50U pg/L
	PCB 86/87/97/108/119/125	11.7 pg/L	11.7U pg/L
	PCB 88/91	1.71 pg/L	1.71U pg/L
	PCB 90/101/113	18.2 pg/L	18.2U pg/L
	PCB 93/95/98/100/102	12.0 pg/L	12.0U pg/L
	PCB 105	5.67 pg/L	5.67U pg/L
	PCB 110/115	18.6 pg/L	18.6U pg/L
	PCB 118	15.1 pg/L	15.1U pg/L
	PCB 128/166	2.66 pg/L	2.66U pg/L
	PCB 129/138/160/163	12.7 pg/L	12.7U pg/L
	PCB 132	4.13 pg/L	4.13U pg/L
	PCB 153/168	10.5 pg/L	10.5U pg/L
L55284-2	Total Monochlorobiphenyls	6.68 pg/L	6.68U pg/L
	Total Dichlorobiphenyls	16.6 pg/L	16.6U pg/L
	Total Trichlorobiphenyls	15.5 pg/L	15.5U pg/L
	Total Pentachlorobiphenyls	103 pg/L	103U pg/L
	Total Hexachlorobiphenyls	45.0 pg/L	45.0U pg/L
	Total Heptachlorobiphenyls	1.61 pg/L	1.61U pg/L
	PCB 1	2.10 pg/L	2.10U pg/L
	PCB 2	2.17 pg/L	2.17U pg/L
	PCB 8	1.83 pg/L	1.83U pg/L
	PCB 11	11.2 pg/L	11.2U pg/L
L55284-2	PCB 15	3.11 pg/L	3.11U pg/L
	PCB 20/28	6.86 pg/L	6.86U pg/L
	PCB 22	2.28 pg/L	2.28U pg/L
	PCB 31	4.34 pg/L	4.34U pg/L
	PCB 40	2.58 pg/L	2.58U pg/L
	PCB 56	2.03 pg/L	2.03U pg/L
	PCB 61/70/74/76	9.90 pg/L	9.90U pg/L
	PCB 64	2.99 pg/L	2.99U pg/L
	PCB 66	4.85 pg/L	4.85U pg/L
	PCB 85/116/117	2.48 pg/L	2.48U pg/L
	PCB 88/91	1.46 pg/L	1.46U pg/L
	PCB 90/101/113	11.1 pg/L	11.1U pg/L
	PCB 93/95/98/100/102	7.50 pg/L	7.50U pg/L
	PCB 105	3.24 pg/L	3.24U pg/L
	PCB 110/115	10.0 pg/L	10.0U pg/L
	PCB 118	6.92 pg/L	6.92U pg/L
	PCB 128/166	1.62 pg/L	1.62U pg/L
	PCB 129/138/160/163	7.46 pg/L	7.46U pg/L
	PCB 132	2.67 pg/L	2.67U pg/L
	PCB 153/168	7.09 pg/L	7.09U pg/L
	PCB 187	2.36 pg/L	2.36U pg/L
	Total Monochlorobiphenyls	4.27 pg/L	4.27U pg/L
	Total Dichlorobiphenyls	17.3 pg/L	17.3U pg/L
	Total Pentachlorobiphenyls	42.7 pg/L	42.7U pg/L
	Total Hexachlorobiphenyls	24.6 pg/L	24.6U pg/L
	Total Heptachlorobiphenyls	5.49 pg/L	5.49U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L55284-3	PCB 1	1.02 pg/L	1.02U pg/L
	PCB 2	1.16 pg/L	1.16U pg/L
	PCB 3	2.89 pg/L	2.89U pg/L
	PCB 8	1.97 pg/L	1.97U pg/L
	PCB 11	13.1 pg/L	13.1U pg/L
	PCB 15	1.44 pg/L	1.44U pg/L
	PCB 20/28	3.15 pg/L	3.15U pg/L
	PCB 22	1.01 pg/L	1.01U pg/L
	PCB 31	2.28 pg/L	2.28U pg/L
	PCB 40	2.39 pg/L	2.39U pg/L
	PCB 61/70/74/76	9.95 pg/L	9.95U pg/L
	PCB 64	1.89 pg/L	1.89U pg/L
	PCB 66	4.58 pg/L	4.58U pg/L
	PCB 83/99	10.3 pg/L	10.3U pg/L
	PCB 84	4.17 pg/L	4.17U pg/L
	PCB 85/116/117	3.22 pg/L	3.22U pg/L
	PCB 86/87/97/108/119/125	11.3 pg/L	11.3U pg/L
	PCB 88/91	2.55 pg/L	2.55U pg/L
	PCB 90/101/113	18.8 pg/L	18.8U pg/L
	PCB 92	2.97 pg/L	2.97U pg/L
	PCB 93/95/98/100/102	13.6 pg/L	13.6U pg/L
	PCB 105	4.89 pg/L	4.89U pg/L
	PCB 110/115	19.0 pg/L	19.0U pg/L
	PCB 118	12.3 pg/L	12.3U pg/L
	PCB 128/166	3.28 pg/L	3.28U pg/L
	PCB 129/138/160/163	18.2 pg/L	18.2U pg/L
	PCB 132	5.41 pg/L	5.41U pg/L
	PCB 135/151/154	5.93 pg/L	5.93U pg/L
	PCB 187	5.57 pg/L	5.57U pg/L
	Total Monochlorobiphenyls	5.07 pg/L	5.07U pg/L
	Total Dichlorobiphenyls	18.2 pg/L	18.2U pg/L
	Total Trichlorobiphenyls	13.3 pg/L	13.3U pg/L
	Total Pentachlorobiphenyls	103 pg/L	103U pg/L
L55284-3DUP	PCB 1	1.28 pg/L	1.28U pg/L
	PCB 8	1.67 pg/L	1.67U pg/L
	PCB 11	13.4 pg/L	13.4U pg/L
	PCB 15	1.40 pg/L	1.40U pg/L
	PCB 20/28	2.98 pg/L	2.98U pg/L
	PCB 22	0.960 pg/L	0.960U pg/L
	PCB 40	1.91 pg/L	1.91U pg/L
	PCB 56	1.88 pg/L	1.88U pg/L
	PCB 61/70/74/76	9.28 pg/L	9.28U pg/L
	PCB 64	1.51 pg/L	1.51U pg/L
	PCB 66	3.95 pg/L	3.95U pg/L
	PCB 83/99	10.8 pg/L	10.8U pg/L
	PCB 84	3.65 pg/L	3.65U pg/L
	PCB 86/87/97/108/119/125	11.1 pg/L	11.1U pg/L
	PCB 90/101/113	17.0 pg/L	17.0U pg/L
	PCB 92	2.89 pg/L	2.89U pg/L
	PCB 93/95/98/100/102	11.1 pg/L	11.1U pg/L
	PCB 105	4.79 pg/L	4.79U pg/L
	PCB 110/115	16.7 pg/L	16.7U pg/L
	PCB 118	11.5 pg/L	11.5U pg/L
	PCB 128/166	3.33 pg/L	3.33U pg/L
	PCB 129/138/160/163	17.0 pg/L	17.0U pg/L
	PCB 132	4.88 pg/L	4.88U pg/L
	PCB 135/151/154	4.55 pg/L	4.55U pg/L
	PCB 153/168	15.4 pg/L	15.4U pg/L
	PCB 187	5.55 pg/L	5.55U pg/L
	Total Monochlorobiphenyls	1.28 pg/L	1.28U pg/L
	Total Dichlorobiphenyls	18.5 pg/L	18.5U pg/L
	Total Trichlorobiphenyls	11.7 pg/L	11.7U pg/L
	Total Pentachlorobiphenyls	90.5 pg/L	90.5U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L55284-4	PCB 1	1.45 pg/L	1.45U pg/L
	PCB 2	1.42 pg/L	1.42U pg/L
	PCB 3	2.66 pg/L	2.66U pg/L
	PCB 11	11.3 pg/L	11.3U pg/L
	PCB 15	1.29 pg/L	1.29U pg/L
	PCB 20/28	2.98 pg/L	2.98U pg/L
	PCB 31	1.62 pg/L	1.62U pg/L
	PCB 56	1.72 pg/L	1.72U pg/L
	PCB 61/70/74/76	9.61 pg/L	9.61U pg/L
	PCB 64	1.73 pg/L	1.73U pg/L
	PCB 83/99	8.59 pg/L	8.59U pg/L
	PCB 84	3.82 pg/L	3.82U pg/L
	PCB 86/87/97/108/119/125	11.5 pg/L	11.5U pg/L
	PCB 88/91	1.92 pg/L	1.92U pg/L
	PCB 90/101/113	13.1 pg/L	13.1U pg/L
	PCB 92	2.20 pg/L	2.20U pg/L
	PCB 93/95/98/100/102	10.1 pg/L	10.1U pg/L
	PCB 105	8.21 pg/L	8.21U pg/L
	PCB 110/115	18.3 pg/L	18.3U pg/L
	PCB 118	17.5 pg/L	17.5U pg/L
	PCB 132	5.05 pg/L	5.05U pg/L
	PCB 135/151/154	4.76 pg/L	4.76U pg/L
	Total Monochlorobiphenyls	5.53 pg/L	5.53U pg/L
	Total Dichlorobiphenyls	12.6 pg/L	12.6U pg/L
	Total Trichlorobiphenyls	10.9 pg/L	10.9U pg/L
	Total Pentachlorobiphenyls	99.6 pg/L	99.6U pg/L
L55284-5	PCB 1	1.51 pg/L	1.51U pg/L
	PCB 2	1.78 pg/L	1.78U pg/L
	PCB 3	3.06 pg/L	3.06U pg/L
	PCB 8	1.57 pg/L	1.57U pg/L
	PCB 11	12.3 pg/L	12.3U pg/L
	PCB 15	2.77 pg/L	2.77U pg/L
	PCB 20/28	4.16 pg/L	4.16U pg/L
	PCB 22	0.678 pg/L	0.678U pg/L
	PCB 31	2.04 pg/L	2.04U pg/L
	PCB 56	2.39 pg/L	2.39U pg/L
	PCB 61/70/74/76	13.0 pg/L	13.0U pg/L
	PCB 64	4.41 pg/L	4.41U pg/L
	PCB 66	6.05 pg/L	6.05U pg/L
	PCB 83/99	15.4 pg/L	15.4U pg/L
	PCB 84	8.60 pg/L	8.60U pg/L
	PCB 85/116/117	5.33 pg/L	5.33U pg/L
	PCB 86/87/97/108/119/125	20.9 pg/L	20.9U pg/L
	PCB 88/91	3.66 pg/L	3.66U pg/L
	PCB 90/101/113	28.9 pg/L	28.9U pg/L
	PCB 92	5.15 pg/L	5.15U pg/L
	PCB 105	11.4 pg/L	11.4U pg/L
	PCB 110/115	37.5 pg/L	37.5U pg/L
	PCB 118	24.1 pg/L	24.1U pg/L
	Total Monochlorobiphenyls	6.35 pg/L	6.35U pg/L
	Total Dichlorobiphenyls	18.7 pg/L	18.7U pg/L
	Total Pentachlorobiphenyls	194 pg/L	194U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L55284-6	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 20/28 PCB 31 PCB 40 PCB 56 PCB 61/70/74/76 PCB 64 PCB 66 PCB 83/99 PCB 84 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 129/138/160/163 PCB 132 PCB 153/168 PCB 187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls	0.645 pg/L 0.730 pg/L 2.03 pg/L 2.35 pg/L 15.2 pg/L 6.01 pg/L 3.47 pg/L 2.62 pg/L 2.00 pg/L 13.7 pg/L 2.79 pg/L 5.50 pg/L 12.5 pg/L 4.48 pg/L 12.7 pg/L 2.85 pg/L 19.4 pg/L 3.49 pg/L 14.6 pg/L 6.28 pg/L 20.3 pg/L 17.4 pg/L 16.2 pg/L 5.82 pg/L 12.4 pg/L 4.42 pg/L 3.41 pg/L 18.9 pg/L 117 pg/L	0.645U pg/L 0.730U pg/L 2.03U pg/L 2.35U pg/L 15.2U pg/L 6.01U pg/L 3.47U pg/L 2.62U pg/L 2.00U pg/L 13.7U pg/L 2.79U pg/L 5.50U pg/L 12.5U pg/L 4.48U pg/L 12.7U pg/L 2.85U pg/L 19.4U pg/L 3.49U pg/L 14.6U pg/L 6.28U pg/L 20.3U pg/L 17.4U pg/L 16.2U pg/L 5.82U pg/L 12.4U pg/L 4.42U pg/L 3.41U pg/L 18.9U pg/L 117U pg/L
L55283-1	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 15 PCB 20/28 PCB 22 PCB 31 PCB 40 PCB 56 PCB 61/70/74/76 PCB 66 PCB 83/99 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 129/138/160/163 PCB 135/151/154 PCB 153/168 PCB 187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls	1.69 pg/L 2.19 pg/L 3.29 pg/L 2.33 pg/L 12.9 pg/L 1.84 pg/L 4.79 pg/L 1.20 pg/L 2.65 pg/L 1.87 pg/L 1.52 pg/L 10.2 pg/L 4.40 pg/L 9.84 pg/L 2.98 pg/L 10.7 pg/L 1.92 pg/L 15.2 pg/L 2.48 pg/L 11.8 pg/L 5.27 pg/L 16.5 pg/L 14.0 pg/L 11.2 pg/L 4.13 pg/L 9.03 pg/L 2.40 pg/L 7.17 pg/L 18.6 pg/L 91.8 pg/L 39.2 pg/L 4.67 pg/L	1.69U pg/L 2.19U pg/L 3.29U pg/L 2.33U pg/L 12.9U pg/L 1.84U pg/L 4.79U pg/L 1.20U pg/L 2.65U pg/L 1.87U pg/L 1.52U pg/L 10.2U pg/L 4.40U pg/L 9.84U pg/L 2.98U pg/L 10.7U pg/L 1.92U pg/L 15.2U pg/L 2.48U pg/L 11.8U pg/L 5.27U pg/L 16.5U pg/L 14.0U pg/L 11.2U pg/L 4.13U pg/L 9.03U pg/L 2.40U pg/L 7.17U pg/L 18.6U pg/L 91.8U pg/L 39.2U pg/L 4.67U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L55283-2	PCB 1	1.71 pg/L	1.71U pg/L
	PCB 2	1.87 pg/L	1.87U pg/L
	PCB 3	3.11 pg/L	3.11U pg/L
	PCB 8	2.23 pg/L	2.23U pg/L
	PCB 11	11.6 pg/L	11.6U pg/L
	PCB 15	2.87 pg/L	2.87U pg/L
	PCB 31	5.47 pg/L	5.47U pg/L
	PCB 56	2.76 pg/L	2.76U pg/L
	PCB 61/70/74/76	11.2 pg/L	11.2U pg/L
	PCB 64	3.66 pg/L	3.66U pg/L
	PCB 66	4.78 pg/L	4.78U pg/L
	PCB 83/99	5.76 pg/L	5.76U pg/L
	PCB 85/116/117	2.13 pg/L	2.13U pg/L
	PCB 86/87/97/108/119/125	7.42 pg/L	7.42U pg/L
	PCB 90/101/113	9.00 pg/L	9.00U pg/L
	PCB 93/95/98/100/102	8.42 pg/L	8.42U pg/L
	PCB 105	2.81 pg/L	2.81U pg/L
	PCB 110/115	11.4 pg/L	11.4U pg/L
	PCB 118	7.11 pg/L	7.11U pg/L
	PCB 128/166	1.46 pg/L	1.46U pg/L
	PCB 129/138/160/163	6.76 pg/L	6.76U pg/L
	PCB 132	2.21 pg/L	2.21U pg/L
	PCB 135/151/154	2.39 pg/L	2.39U pg/L
	PCB 153/168	5.64 pg/L	5.64U pg/L
	PCB 187	2.04 pg/L	2.04U pg/L
	Total Monochlorobiphenyls	6.69 pg/L	6.69U pg/L
	Total Dichlorobiphenyls	19.5 pg/L	19.5U pg/L
	Total Pentachlorobiphenyls	54.8 pg/L	54.8U pg/L
	Total Hexachlorobiphenyls	26.6 pg/L	26.6U pg/L
	Total Heptachlorobiphenyls	2.04 pg/L	2.04U pg/L
L55283-3	PCB 1	1.55 pg/L	1.55U pg/L
	PCB 2	1.72 pg/L	1.72U pg/L
	PCB 3	2.93 pg/L	2.93U pg/L
	PCB 8	1.77 pg/L	1.77U pg/L
	PCB 11	11.0 pg/L	11.0U pg/L
	PCB 20/28	3.60 pg/L	3.60U pg/L
	PCB 22	1.06 pg/L	1.06U pg/L
	PCB 31	2.06 pg/L	2.06U pg/L
	PCB 40	2.66 pg/L	2.66U pg/L
	PCB 61/70/74/76	11.9 pg/L	11.9U pg/L
	PCB 66	5.11 pg/L	5.11U pg/L
	PCB 83/99	13.6 pg/L	13.6U pg/L
	PCB 84	4.59 pg/L	4.59U pg/L
	PCB 86/87/97/108/119/125	15.3 pg/L	15.3U pg/L
	PCB 93/95/98/100/102	16.9 pg/L	16.9U pg/L
	PCB 105	7.11 pg/L	7.11U pg/L
	PCB 110/115	26.1 pg/L	26.1U pg/L
	PCB 118	18.8 pg/L	18.8U pg/L
	Total Monochlorobiphenyls	6.20 pg/L	6.20U pg/L
	Total Dichlorobiphenyls	13.9 pg/L	13.9U pg/L
	Total Trichlorobiphenyls	10.6 pg/L	10.6U pg/L
	Total Pentachlorobiphenyls	105 pg/L	105U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L55283-4	PCB 1	1.67 pg/L	1.67U pg/L
	PCB 2	1.39 pg/L	1.39U pg/L
	PCB 3	2.88 pg/L	2.88U pg/L
	PCB 8	1.76 pg/L	1.76U pg/L
	PCB 11	11.8 pg/L	11.8U pg/L
	PCB 15	1.69 pg/L	1.69U pg/L
	PCB 20/28	4.15 pg/L	4.15U pg/L
	PCB 31	2.43 pg/L	2.43U pg/L
	PCB 40	1.78 pg/L	1.78U pg/L
	PCB 61/70/74/76	19.5 pg/L	19.5U pg/L
	PCB 64	3.41 pg/L	3.41U pg/L
	PCB 84	4.40 pg/L	4.40U pg/L
	PCB 85/116/117	6.80 pg/L	6.80U pg/L
	PCB 86/87/97/108/119/125	13.2 pg/L	13.2U pg/L
	PCB 88/91	3.23 pg/L	3.23U pg/L
	PCB 90/101/113	25.3 pg/L	25.3U pg/L
	PCB 92	5.32 pg/L	5.32U pg/L
	PCB 93/95/98/100/102	12.8 pg/L	12.8U pg/L
	PCB 105	8.24 pg/L	8.24U pg/L
	PCB 110/115	22.5 pg/L	22.5U pg/L
	PCB 118	23.0 pg/L	23.0U pg/L
	PCB 128/166	2.86 pg/L	2.86U pg/L
	PCB 129/138/160/163	18.9 pg/L	18.9U pg/L
	PCB 132	3.55 pg/L	3.55U pg/L
	PCB 135/151/154	6.39 pg/L	6.39U pg/L
	Total Monochlorobiphenyls	5.94 pg/L	5.94U pg/L
	Total Dichlorobiphenyls	17.6 pg/L	17.6U pg/L
	Total Trichlorobiphenyls	15.1 pg/L	15.1U pg/L
	Total Pentachlorobiphenyls	149 pg/L	149U pg/L
L55283-6	PCB 1	1.88 pg/L	1.88U pg/L
	PCB 2	1.87 pg/L	1.87U pg/L
	PCB 3	3.32 pg/L	3.32U pg/L
	PCB 8	1.62 pg/L	1.62U pg/L
	PCB 11	15.0 pg/L	15.0U pg/L
	PCB 20/28	5.12 pg/L	5.12U pg/L
	PCB 22	1.27 pg/L	1.27U pg/L
	PCB 31	2.49 pg/L	2.49U pg/L
	PCB 61/70/74/76	13.1 pg/L	13.1U pg/L
	PCB 64	2.49 pg/L	2.49U pg/L
	PCB 66	6.72 pg/L	6.72U pg/L
	PCB 83/99	13.6 pg/L	13.6U pg/L
	PCB 85/116/117	3.88 pg/L	3.88U pg/L
	PCB 86/87/97/108/119/125	14.6 pg/L	14.6U pg/L
	PCB 88/91	2.87 pg/L	2.87U pg/L
	PCB 90/101/113	19.0 pg/L	19.0U pg/L
	PCB 92	3.54 pg/L	3.54U pg/L
	PCB 93/95/98/100/102	13.0 pg/L	13.0U pg/L
	PCB 105	8.48 pg/L	8.48U pg/L
	PCB 110/115	23.3 pg/L	23.3U pg/L
	PCB 118	20.0 pg/L	20.0U pg/L
	PCB 129/138/160/163	19.3 pg/L	19.3U pg/L
	PCB 132	6.65 pg/L	6.65U pg/L
	PCB 135/151/154	4.69 pg/L	4.69U pg/L
	PCB 153/168	13.0 pg/L	13.0U pg/L
	Total Monochlorobiphenyls	7.07 pg/L	7.07U pg/L
	Total Dichlorobiphenyls	19.1 pg/L	19.1U pg/L
	Total Pentachlorobiphenyls	123 pg/L	123U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L55384-1	PCB 2 PCB 3 PCB 11 PCB 15 PCB 20/28 PCB 22 PCB 31 PCB 40 PCB 56 PCB 61/70/74/76 PCB 66 PCB 84 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Pentachlorobiphenyls	0.789 pg/L 2.25 pg/L 12.6 pg/L 1.90 pg/L 3.97 pg/L 1.00 pg/L 2.29 pg/L 3.96 pg/L 2.37 pg/L 15.0 pg/L 7.78 pg/L 7.38 pg/L 7.54 pg/L 23.2 pg/L 33.4 pg/L 6.68 pg/L 22.9 pg/L 3.04 pg/L 16.5 pg/L 12.2 pg/L 220 pg/L	0.789U pg/L 2.25U pg/L 12.6U pg/L 1.90U pg/L 3.97U pg/L 1.00U pg/L 2.29U pg/L 3.96U pg/L 2.37U pg/L 15.0U pg/L 7.78U pg/L 7.38U pg/L 7.54U pg/L 23.2U pg/L 33.4U pg/L 6.68U pg/L 22.9U pg/L 3.04U pg/L 16.5U pg/L 12.2U pg/L 220U pg/L
L55384-2 (4X)	PCB 1 PCB 2 PCB 3 PCB 8 PCB 105 Total Monochlorobiphenyls	1.62 pg/L 1.93 pg/L 4.17 pg/L 5.87 pg/L 42.8 pg/L 7.72 pg/L	1.62U pg/L 1.93U pg/L 4.17U pg/L 5.87U pg/L 42.8U pg/L 7.72U pg/L
L55384-3	PCB 2 PCB 3 PCB 8 PCB 11 PCB 15 PCB 20/28 PCB 22 PCB 31 PCB 40 PCB 56 PCB 61/70/74/76 PCB 66 PCB 83/99 PCB 84 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 128/166 PCB 129/138/160/163 PCB 135/151/154 PCB 153/168 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls	1.89 pg/L 3.73 pg/L 2.61 pg/L 14.1 pg/L 2.46 pg/L 5.58 pg/L 1.81 pg/L 3.76 pg/L 2.21 pg/L 1.59 pg/L 9.90 pg/L 3.59 pg/L 8.83 pg/L 4.42 pg/L 2.18 pg/L 11.8 pg/L 14.7 pg/L 2.36 pg/L 12.8 pg/L 3.42 pg/L 16.8 pg/L 10.9 pg/L 1.75 pg/L 6.92 pg/L 4.08 pg/L 5.75 pg/L 5.62 pg/L 23.5 pg/L 90.3 pg/L 26.9 pg/L	1.89U pg/L 3.73U pg/L 2.61U pg/L 14.1U pg/L 2.46U pg/L 5.58U pg/L 1.81U pg/L 3.76U pg/L 2.21U pg/L 1.59U pg/L 9.90U pg/L 3.59U pg/L 8.83U pg/L 4.42U pg/L 2.18U pg/L 11.8U pg/L 14.7U pg/L 2.36U pg/L 12.8U pg/L 3.42U pg/L 16.8U pg/L 10.9U pg/L 1.75U pg/L 6.92U pg/L 4.08U pg/L 5.75U pg/L 5.62U pg/L 23.5U pg/L 90.3U pg/L 26.9U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L55384-4	PCB 1	1.64 pg/L	1.64U pg/L
	PCB 3	2.72 pg/L	2.72U pg/L
	PCB 8	1.56 pg/L	1.56U pg/L
	PCB 11	10.2 pg/L	10.2U pg/L
	PCB 15	1.70 pg/L	1.70U pg/L
	PCB 31	1.47 pg/L	1.47U pg/L
	PCB 40	1.40 pg/L	1.40U pg/L
	PCB 61/70/74/76	5.16 pg/L	5.16U pg/L
	PCB 84	2.32 pg/L	2.32U pg/L
	PCB 85/116/117	1.78 pg/L	1.78U pg/L
	PCB 86/87/97/108/119/125	6.73 pg/L	6.73U pg/L
	PCB 88/91	1.64 pg/L	1.64U pg/L
	PCB 90/101/113	7.02 pg/L	7.02U pg/L
	PCB 93/95/98/100/102	5.88 pg/L	5.88U pg/L
	PCB 105	2.51 pg/L	2.51U pg/L
	PCB 110/115	8.83 pg/L	8.83U pg/L
	PCB 118	5.15 pg/L	5.15U pg/L
	PCB 129/138/160/163	4.79 pg/L	4.79U pg/L
	PCB 132	2.03 pg/L	2.03U pg/L
	Total Monochlorobiphenyls	4.36 pg/L	4.36U pg/L
	Total Dichlorobiphenyls	14.8 pg/L	14.8U pg/L
	Total Trichlorobiphenyls Total	5.07 pg/L	5.07U pg/L
	Pentachlorobiphenyls	43.0 pg/L	43.0U pg/L
	Total Hexachlorobiphenyls	6.82 pg/L	6.82U pg/L
	Total Heptachlorobiphenyls	1.25 pg/L	1.25U pg/L

Method blank results flagged "K" by the laboratory as estimated maximum possible concentration (EMPC) were considered not detected.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable. Results were within QC limits with the following exceptions:

DUP ID (Associated Samples)	Compound	RPD (Limits)	Affected Compounds	Flag	A or P
L55284-3DUP (L55284-3 L55284-3DUP)	PCB 7	57.9 (\leq 50)	PCB 7 Total Dichlorobiphenyls	J (all detects)	A

VII. Ongoing Precision & Recovery Samples (OPR)

Ongoing precision and recovery (OPR) control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries (%R) were within QC limits.

X. Target Compound Identifications

Raw data were not reviewed for this SDG.

XI. Compound Quantitation and RLs

All compound quantitation and RLs were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDGDPWG40324	All TCL compounds flagged "K" by the laboratory as estimated maximum possible concentration.	U	A

Raw data were not reviewed for this SDG.

XII. System Performance

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

No field blanks were identified in this SDG.

Lower Duwamish Waterway**Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG
DPWG40324**

SDG	Sample	Compound	Flag	A or P	Reason
DPWG40324	L55284-3 L55284-3DUP	PCB 7 Total Dichlorobiphenyls	J (all detects)	A	Duplicate sample analysis (RPD)
DPWG40324	L54681-1 L54681-2 L54681-3 L54681-4 L54686-1 L54686-2 L54686-3 L54686-4 L54686-5 L54686-6 L55077-1 L55077-2 L55077-4 L55077-6 L55177-1 L55177-2 L55177-4 L55177-5 L55177-6 L54686-4DUP	All TCL compounds flagged "K" by the laboratory as estimated maximum possible concentration.	U	A	Compound quantitation and RLs (EMPC)

Lower Duwamish Waterway

Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG DPWG40324

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG40324	L55284-1	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 20/28 PCB 31 PCB 40 PCB 56 PCB 61/70/74/76 PCB 64 PCB 66 PCB 83/99 PCB 84 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 128/166 PCB 129/138/160/163 PCB 132 PCB 153/168 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls	1.70U pg/L 1.78U pg/L 3.20U pg/L 2.56U pg/L 14.0U pg/L 4.21U pg/L 2.69U pg/L 1.87U pg/L 1.55U pg/L 11.1U pg/L 1.96U pg/L 4.29U pg/L 10.6U pg/L 3.87U pg/L 3.50U pg/L 11.7U pg/L 1.71U pg/L 18.2U pg/L 12.0U pg/L 5.67U pg/L 18.6U pg/L 15.1U pg/L 2.66U pg/L 12.7U pg/L 4.13U pg/L 10.5U pg/L 6.68U pg/L 16.6U pg/L 15.5U pg/L 103U pg/L 45.0U pg/L 1.61U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG40324	L55284-2	PCB 1 PCB 2 PCB 8 PCB 11 PCB 15 PCB 20/28 PCB 22 PCB 31 PCB 40 PCB 56 PCB 61/70/74/76 PCB 64 PCB 66 PCB 85/116/117 PCB 88/91 PCB 90/101/113 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 128/166 PCB 129/138/160/163 PCB 132 PCB 153/168 PCB 187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls	2.10U pg/L 2.17U pg/L 1.83U pg/L 11.2U pg/L 3.11U pg/L 6.86U pg/L 2.28U pg/L 4.34U pg/L 2.58U pg/L 2.03U pg/L 9.90U pg/L 2.99U pg/L 4.85U pg/L 2.48U pg/L 1.46U pg/L 11.1U pg/L 7.50U pg/L 3.24U pg/L 10.0U pg/L 6.92U pg/L 1.62U pg/L 7.46U pg/L 2.67U pg/L 7.09U pg/L 2.36U pg/L 4.27U pg/L 17.3U pg/L 42.7U pg/L 24.6U pg/L 5.49U pg/L	A
DPWG40324	L55284-3	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 15 PCB 20/28 PCB 22 PCB 31 PCB 40 PCB 61/70/74/76 PCB 64 PCB 66 PCB 83/99 PCB 84 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 128/166 PCB 129/138/160/163 PCB 132 PCB 135/151/154 PCB 187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Pentachlorobiphenyls	1.02U pg/L 1.16U pg/L 2.89U pg/L 1.97U pg/L 13.1U pg/L 1.44U pg/L 3.15U pg/L 1.01U pg/L 2.28U pg/L 2.39U pg/L 9.95U pg/L 1.89U pg/L 4.58U pg/L 10.3U pg/L 4.17U pg/L 3.22U pg/L 11.3U pg/L 2.55U pg/L 18.8U pg/L 2.97U pg/L 13.6U pg/L 4.89U pg/L 19.0U pg/L 12.3U pg/L 3.28U pg/L 18.2U pg/L 5.41U pg/L 5.93U pg/L 5.57U pg/L 5.07U pg/L 18.2U pg/L 13.3U pg/L 103U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG40324	L55284-3DUP	PCB 1 PCB 8 PCB 11 PCB 15 PCB 20/28 PCB 22 PCB 40 PCB 56 PCB 61/70/74/76 PCB 64 PCB 66 PCB 83/99 PCB 84 PCB 86/87/97/108/119/125 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 128/166 PCB 129/138/160/163 PCB 132 PCB 135/151/154 PCB 153/168 PCB 187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Pentachlorobiphenyls	1.28U pg/L 1.67U pg/L 13.4U pg/L 1.40U pg/L 2.98U pg/L 0.960U pg/L 1.91U pg/L 1.88U pg/L 9.28U pg/L 1.51U pg/L 3.95U pg/L 10.8U pg/L 3.65U pg/L 11.1U pg/L 17.0U pg/L 2.89U pg/L 11.1U pg/L 4.79U pg/L 16.7U pg/L 11.5U pg/L 3.33U pg/L 17.0U pg/L 4.88U pg/L 4.55U pg/L 15.4U pg/L 5.55U pg/L 1.28U pg/L 18.5U pg/L 11.7U pg/L 90.5U pg/L	A
DPWG40324	L55284-4	PCB 1 PCB 2 PCB 3 PCB 11 PCB 15 PCB 20/28 PCB 31 PCB 56 PCB 61/70/74/76 PCB 64 PCB 83/99 PCB 84 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 132 PCB 135/151/154 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Pentachlorobiphenyls	1.45U pg/L 1.42U pg/L 2.66U pg/L 11.3U pg/L 1.29U pg/L 2.98U pg/L 1.62U pg/L 1.72U pg/L 9.61U pg/L 1.73U pg/L 8.59U pg/L 3.82U pg/L 11.5U pg/L 1.92U pg/L 13.1U pg/L 2.20U pg/L 10.1U pg/L 8.21U pg/L 18.3U pg/L 17.5U pg/L 5.05U pg/L 4.76U pg/L 5.53U pg/L 12.6U pg/L 10.9U pg/L 99.6U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG40324	L55284-5	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 15 PCB 20/28 PCB 22 PCB 31 PCB 56 PCB 61/70/74/76 PCB 64 PCB 66 PCB 83/99 PCB 84 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 92 PCB 105 PCB 110/115 PCB 118 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls	1.51U pg/L 1.78U pg/L 3.06U pg/L 1.57U pg/L 12.3U pg/L 2.77U pg/L 4.16U pg/L 0.678U pg/L 2.04U pg/L 2.39U pg/L 13.0U pg/L 4.41U pg/L 6.05U pg/L 15.4U pg/L 8.60U pg/L 5.33U pg/L 20.9U pg/L 3.66U pg/L 28.9U pg/L 5.15U pg/L 11.4U pg/L 37.5U pg/L 24.1U pg/L 6.35U pg/L 18.7U pg/L 194U pg/L	A
DPWG40324	L55284-6	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 20/28 PCB 31 PCB 40 PCB 56 PCB 61/70/74/76 PCB 64 PCB 66 PCB 83/99 PCB 84 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 129/138/160/163 PCB 132 PCB 153/168 PCB 187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls	0.645U pg/L 0.730U pg/L 2.03U pg/L 2.35U pg/L 15.2U pg/L 6.01U pg/L 3.47U pg/L 2.62U pg/L 2.00U pg/L 13.7U pg/L 2.79U pg/L 5.50U pg/L 12.5U pg/L 4.48U pg/L 12.7U pg/L 2.85U pg/L 19.4U pg/L 3.49U pg/L 14.6U pg/L 6.28U pg/L 20.3U pg/L 17.4U pg/L 16.2U pg/L 5.82U pg/L 12.4U pg/L 4.42U pg/L 3.41U pg/L 18.9U pg/L 117U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG40324	L55283-1	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 15 PCB 20/28 PCB 22 PCB 31 PCB 40 PCB 56 PCB 61/70/74/76 PCB 66 PCB 83/99 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 129/138/160/163 PCB 135/151/154 PCB 153/168 PCB 187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls	1.69U pg/L 2.19U pg/L 3.29U pg/L 2.33U pg/L 12.9U pg/L 1.84U pg/L 4.79U pg/L 1.20U pg/L 2.65U pg/L 1.87U pg/L 1.52U pg/L 10.2U pg/L 4.40U pg/L 9.84U pg/L 2.98U pg/L 10.7U pg/L 1.92U pg/L 15.2U pg/L 2.48U pg/L 11.8U pg/L 5.27U pg/L 16.5U pg/L 14.0U pg/L 11.2U pg/L 4.13U pg/L 9.03U pg/L 2.40U pg/L 7.17U pg/L 18.6U pg/L 91.8U pg/L 39.2U pg/L 4.67U pg/L	A
DPWG40324	L55283-2	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 15 PCB 31 PCB 56 PCB 61/70/74/76 PCB 64 PCB 66 PCB 83/99 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 90/101/113 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 128/166 PCB 129/138/160/163 PCB 132 PCB 135/151/154 PCB 153/168 PCB 187 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls	1.71U pg/L 1.87U pg/L 3.11U pg/L 2.23U pg/L 11.6U pg/L 2.87U pg/L 5.47U pg/L 2.76U pg/L 11.2U pg/L 3.66U pg/L 4.78U pg/L 5.76U pg/L 2.13U pg/L 7.42U pg/L 9.00U pg/L 8.42U pg/L 2.81U pg/L 11.4U pg/L 7.11U pg/L 1.46U pg/L 6.76U pg/L 2.21U pg/L 2.39U pg/L 5.64U pg/L 2.04U pg/L 6.69U pg/L 19.5U pg/L 54.8U pg/L 26.6U pg/L 2.04U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG40324	L55283-3	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 20/28 PCB 22 PCB 31 PCB 40 PCB 61/70/74/76 PCB 66 PCB 83/99 PCB 84 PCB 86/87/97/108/119/125 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Pentachlorobiphenyls	1.55U pg/L 1.72U pg/L 2.93U pg/L 1.77U pg/L 11.0U pg/L 3.60U pg/L 1.06U pg/L 2.06U pg/L 2.66U pg/L 11.9U pg/L 5.11U pg/L 13.6U pg/L 4.59U pg/L 15.3U pg/L 16.9U pg/L 7.11U pg/L 26.1U pg/L 18.8U pg/L 6.20U pg/L 13.9U pg/L 10.6U pg/L 105U pg/L	A
DPWG40324	L55283-4	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 15 PCB 20/28 PCB 31 PCB 40 PCB 61/70/74/76 PCB 64 PCB 84 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 128/166 PCB 129/138/160/163 PCB 132 PCB 135/151/154 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Pentachlorobiphenyls	1.67U pg/L 1.39U pg/L 2.88U pg/L 1.76U pg/L 11.8U pg/L 1.69U pg/L 4.15U pg/L 2.43U pg/L 1.78U pg/L 19.5U pg/L 3.41U pg/L 4.40U pg/L 6.80U pg/L 13.2U pg/L 3.23U pg/L 25.3U pg/L 5.32U pg/L 12.8U pg/L 8.24U pg/L 22.5U pg/L 23.0U pg/L 2.86U pg/L 18.9U pg/L 3.55U pg/L 6.39U pg/L 5.94U pg/L 17.6U pg/L 15.1U pg/L 149U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG40324	L55283-6	PCB 1 PCB 2 PCB 3 PCB 8 PCB 11 PCB 20/28 PCB 22 PCB 31 PCB 61/70/74/76 PCB 64 PCB 66 PCB 83/99 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 129/138/160/163 PCB 132 PCB 135/151/154 PCB 153/168 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls	1.88U pg/L 1.87U pg/L 3.32U pg/L 1.62U pg/L 15.0U pg/L 5.12U pg/L 1.27U pg/L 2.49U pg/L 13.1U pg/L 2.49U pg/L 6.72U pg/L 13.6U pg/L 3.88U pg/L 14.6U pg/L 2.87U pg/L 19.0U pg/L 3.54U pg/L 13.0U pg/L 8.48U pg/L 23.3U pg/L 20.0U pg/L 19.3U pg/L 6.65U pg/L 4.69U pg/L 13.0U pg/L 7.07U pg/L 19.1U pg/L 123U pg/L	A
DPWG40324	L55384-1	PCB 2 PCB 3 PCB 11 PCB 15 PCB 20/28 PCB 22 PCB 31 PCB 40 PCB 56 PCB 61/70/74/76 PCB 66 PCB 84 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Pentachlorobiphenyls	0.789U pg/L 2.25U pg/L 12.6U pg/L 1.90U pg/L 3.97U pg/L 1.00U pg/L 2.29U pg/L 3.96U pg/L 2.37U pg/L 15.0U pg/L 7.78U pg/L 7.38U pg/L 7.54U pg/L 23.2U pg/L 33.4U pg/L 6.68U pg/L 22.9U pg/L 3.04U pg/L 16.5U pg/L 12.2U pg/L 220U pg/L	A
DPWG40324	L55384-2 (4X)	PCB 1 PCB 2 PCB 3 PCB 8 PCB 105 Total Monochlorobiphenyls	1.62U pg/L 1.93U pg/L 4.17U pg/L 5.87U pg/L 42.8U pg/L 7.72U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG40324	L55384-3	PCB 2 PCB 3 PCB 8 PCB 11 PCB 15 PCB 20/28 PCB 22 PCB 31 PCB 40 PCB 56 PCB 61/70/74/76 PCB 66 PCB 83/99 PCB 84 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 90/101/113 PCB 92 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 128/166 PCB 129/138/160/163 PCB 135/151/154 PCB 153/168 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls	1.89U pg/L 3.73U pg/L 2.61U pg/L 14.1U pg/L 2.46U pg/L 5.58U pg/L 1.81U pg/L 3.76U pg/L 2.21U pg/L 1.59U pg/L 9.90U pg/L 3.59U pg/L 8.83U pg/L 4.42U pg/L 2.18U pg/L 11.8U pg/L 14.7U pg/L 2.36U pg/L 12.8U pg/L 3.42U pg/L 16.8U pg/L 10.9U pg/L 1.75U pg/L 6.92U pg/L 4.08U pg/L 5.75U pg/L 5.62U pg/L 23.5U pg/L 90.3U pg/L 26.9U pg/L	A
DPWG40324	L55384-4	PCB 1 PCB 3 PCB 8 PCB 11 PCB 15 PCB 31 PCB 40 PCB 61/70/74/76 PCB 84 PCB 85/116/117 PCB 86/87/97/108/119/125 PCB 88/91 PCB 90/101/113 PCB 93/95/98/100/102 PCB 105 PCB 110/115 PCB 118 PCB 129/138/160/163 PCB 132 Total Monochlorobiphenyls Total Dichlorobiphenyls Total Trichlorobiphenyls Total Pentachlorobiphenyls Total Hexachlorobiphenyls Total Heptachlorobiphenyls	1.64U pg/L 2.72U pg/L 1.56U pg/L 10.2U pg/L 1.70U pg/L 1.47U pg/L 1.40U pg/L 5.16U pg/L 2.32U pg/L 1.78U pg/L 6.73U pg/L 1.64U pg/L 7.02U pg/L 5.88U pg/L 2.51U pg/L 8.83U pg/L 5.15U pg/L 4.79U pg/L 2.03U pg/L 4.36U pg/L 14.8U pg/L 5.07U pg/L 43.0U pg/L 6.82U pg/L 1.25U pg/L	A

LDC #: 28363J31

VALIDATION COMPLETENESS WORKSHEET

SDG #: DPWG40324

Level III

Laboratory: Analytical Perspectives AXYS

Date: 3/29/12

Page: 1 of 1

Reviewer: [Signature]

2nd Reviewer: [Signature]

METHOD: HRGC/HRMS Polychlorinated Biphenyl Congeners (EPA Method 1668A)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 3/10 - 29/12
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	20/0
IV.	Routine calibration/ 10X	A	30/50/0
V.	Blanks	N	
VI.	Matrix spike/Matrix spike duplicates 10MP	N/N	
VII.	Laboratory control samples	A	OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	
X.	Target compound identifications	N	
XI.	Compound quantitation RL/LQO/LODs	N	
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note:
 A = Acceptable
 N = Not provided/applicable
 SW = See worksheet

ND = No compounds detected
 R = Rinsate
 FB = Field blank

D = Duplicate
 TB = Trip blank
 EB = Equipment blank

Validated Samples:

~~All 100%~~

1	L55284-1	11	L55283-6	21	WF 40269-101	31	
2	L55284-2	12	L55384-1	22		32	
3	L55284-3	13	L55384-2	23		33	
4	L55284-4	14	L55384-3	24		34	
5	L55284-5	15	L55384-4	25		35	
6	L55284-6	16	L55284-3DUP	26		36	
7	L55283-1	17		27		37	
8	L55283-2	18		28		38	
9	L55283-3	19		29		39	
10	L55283-4	20		30		40	

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 1 of 1
 Reviewer: JL
 2nd Reviewer: ✓

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1666A)

Blank extraction date: 5/24/12 Blank analysis date: 6/4/12
 Conc. units: pg/L

Associated samples: All Qual U

Compound	Blank ID	Sample identification											
		5X	1	2	3	16	4	5	6	7	8	9	10
	WG40069-101												
PCB 1	1.16	5.8	1.70	2.10	1.02	1.28	1.45	1.51	0.645	1.69	1.71	1.55	1.67
PCB 2	1.22	6.1	1.78	2.17	1.16		1.42	1.78	0.730	2.19	1.87	1.72	1.39
PCB 3	2.32	11.6	3.20		2.89		2.66	3.06	2.03	3.29	3.11	2.93	2.88
PCB 8	1.38	6.9	2.56	1.83	1.97	1.67		1.57	2.35	2.33	2.23	1.77	1.76
PCB 11	9.80	49	14.0	11.2	13.1	13.4	11.3	12.3	15.2	12.9	11.6	11.0	11.8
PCB 15	1.24	6.2		3.11	1.44	1.40	1.29	2.77		1.84	2.87		1.69
PCB 20/28	1.54	7.7	4.21	6.86	3.15	2.98	2.98	4.16	6.01	4.79		3.60	4.15
PCB 22	0.650	3.26		2.28	1.01	0.960		0.678		1.20			1.06
PCB 31	1.14	5.7	2.69	4.34	2.28		1.62	2.04	3.47	2.65 5.47			2.43
PCB 40	0.807	4.035	1.87	2.58	2.39	1.91			2.62	1.87		2.66	1.78
PCB 56	1.02	5.1	1.55	2.03		1.88	1.72	2.39	2.00	1.52	2.76		
PCB 61/70/74/76	6.30	31.5	11.1	9.90	9.95	9.28	9.61	13.0	13.7	10.2	11.2	11.9	19.5
PCB 64	0.941	4.705	1.96	2.99	1.89	1.51	1.73	4.41	2.79		3.66		3.41
PCB 66	2.12	10.6	4.29	4.85	4.58	3.95		6.05	5.50	4.40	4.78	5.11	
PCB 83/99	3.54	17.7	10.6		10.3	10.8	8.59	15.4	12.5	9.84	5.76	13.6	
PCB 84	2.28	11.4	3.87		4.17	3.65	3.82	8.60	4.48		4.59		4.40
PCB 85/116/117	1.67	8.35	3.50	2.48	3.22			5.33		2.98	2.13		6.80
PCB 86/87/97/108/119/125	6.01	30.05	11.7		11.3	11.1	11.5	20.9	12.7	10.7	7.42	15.3	13.2
PCB 88/91	0.766	3.83	1.71	1.46	2.55		1.92	3.66	2.85	1.92			3.23
PCB 90/101/113	7.65	38.25	18.2	11.1	18.8	17.0	13.1	28.9	19.4	15.2	9.00		25.3
PCB 92	1.40	7			2.97	2.89	2.20	5.15	3.49		2.48		5.32
PCB 93/95/98/100/102	5.09	25.45	12.0	7.50	13.6	11.1	10.1		14.6	11.8	8.42	16.9	12.8
PCB 105	2.61	13.05	5.67	3.24	4.89	4.79	8.21	11.4	6.28	5.27	2.81	7.11	8.24

Compound	Blank ID	Sample Identification											
	WG40069-101	5X	1	2	3	16	4	5	6	7	8	9	1f)
PCB 110/ 115	7.87	39.35	18.6	10.0	19.0	16.7	18.3	37.5	20.3	16.5	11.4	26.1	22.5
PCB 118	5.73	28.65	15.1	6.92	12.3	11.5	17.5	24.1	17.4	14.0	7.11	18.8	23.0
PCB 128/166	0.697	3.485	2.66	1.62	3.28	3.33					1.46		2.86
PCB 129/138/160/163	4.13	20.65	12.7	7.46	18.2	17.0			16.2	11.2	6.76		18.9
PCB 132	1.35	6.75	4.13	2.67	5.41	4.88	5.05		5.82		2.21		3.55
PCB 135/151/154	1.40	7			5.93	4.55	4.76			4.13	2.39		6.39
PCB 153/168	3.27	16.35	10.5	7.09		15.4				12.4	9.03	5.64	
PCB 187	1.19	5.95		2.36	5.57	5.55				4.42	2.40	2.04	
Total Monochlorobiphenyls	4.70	23.5	6.68	4.27	5.07	1.28	5.53	6.35	3.41	7.17	6.69	6.20	5.94
Total Dichlorobiphenyls	12.4	62	16.6	17.3	18.2	18.5	12.6	18.7	18.9	18.6	19.5	13.9	17.6
Total Trichlorobiphenyls	3.33	16.65	15.5		13.3	11.7	10.9					10.6	15.1
Total Tetrachlorobiphenyls	11.2	56											
Total Pentachlorobiphenyls	44.6	223	103	42.7	103	90.5	99.6	194	117	91.8	54.8	105	149
Total Hexachlorobiphenyls	10.8	54	45.0	24.6						39.2	26.6		
Total Heptachlorobiphenyls	1.19	5.95	1.61	5.49						4.67	2.04		
Total PCBs	88.3	441.5										356	

*Method blank results flagged "K" by the laboratory as estimated maximum possible concentration (EMPC) were considered not detected.

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

VALIDATION FINDINGS WORKSHEET
Blanks

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)

Blank extraction date: 5/24/12 Blank analysis date: 6/4/12
Conc. units: pg/L

Compound	Blank ID	Associated samples:				
		Sample identification				
		All	Qual U			
	WG40069-101	5X	11	12	13	14
PCB 1	1.16	5.8	1.88	1.62		1.64
PCB 2	1.22	6.1	1.87	0.789	1.93	1.89
PCB 3	2.32	11.6	3.32	2.25	4.17	3.73
PCB 8	1.38	6.9	1.62		5.87	2.61
PCB 11	9.80	49	15.0	12.6		14.1
PCB 15	1.24	6.2		1.90		2.46
PCB 20/28	1.54	7.7	5.12	3.97		5.58
PCB 22	0.650	3.25	1.27	1.00		1.81
PCB 31	1.14	5.7	2.49	2.29		3.76
PCB 40	0.807	4.035		3.96		2.21
PCB 56	1.02	5.1		2.37		1.59
PCB 61/70/74/76	6.30	31.5	13.1	15.0		9.90
PCB 64	0.941	4.705	2.49			
PCB 66	2.12	10.6	6.72	7.78		3.59
PCB 83/99	3.54	17.7	13.6			8.83
PCB 84	2.28	11.4		7.38		4.42
PCB 85/116/117	1.67	8.35	3.88	7.54		2.18
PCB 86/87/97/108/119/125	6.01	30.05	14.6	23.2		11.8
PCB 88/91	0.766	3.83	2.87			
PCB 90/101/113	7.65	38.25	19.0	33.4		14.7
PCB 92	1.40	7	3.54	6.68		2.36
PCB 93/95/98/100/102	5.09	25.45	13.0	22.9		12.8
PCB 105	2.61	13.05	8.48	42.8 (4X)	3.42	2.51

Compound	Blank ID	Sample Identification					
	WG40069-101	5X	11	12	13	14	15
PCB 110/ ¹⁵	7.87	39.35	23.3		16.8	8.83	
PCB 118	5.73	28.65	20.0		10.9	5.15	
PCB 128/166	0.697	3.485			1.75		
PCB 129/138/160/163	4.13	20.65	19.3		6.92	4.79	
PCB 132	1.35	6.75	6.65			2.03	
PCB 135/151/154	1.40	7	4.69			4.08	
PCB 153/168	3.27	16.35	13.0		5.75		
PCB 187	1.19	5.95					
Total Monochlorobiphenyls	4.70	23.6	7.07	3.04	7.72	5.62	4.36
Total Dichlorobiphenyls	12.4	62	19.1	16.5		23.5	14.8
Total Trichlorobiphenyls	3.33	16.65		12.2			5.07
Total Tetrachlorobiphenyls	11.2	56					
Total Pentachlorobiphenyls	44.6	223	123	220	90.3	43.0	
Total Hexachlorobiphenyls	10.8	54			26.9	6.82	
Total Heptachlorobiphenyls	1.19	5.95				1.25	
Total PCBs	88.3	441.5			—352—	—238—	

*Method blank results flagged "K" by the laboratory as estimated maximum possible concentration (EMPC) were considered not detected.

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
All contaminants within five times the method blank concentration were qualified as not detected, "U".

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VALIDATION FINDINGS WORKSHEET

Matrix Spike/Matrix Spike Duplicates

METHOD: HRGC/HRMS Polychlorinated Biphenyls (EPA Method 1668B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "NA".

Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water

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Was a MS/MSD analyzed every 20 samples of each matrix? Were the MS/MSD percent recoveries (%R) and the relative

N/A
N/A

LDC #28363 | 3 |

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and R_Ls

METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668B)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N NA Were the correct internal standard (IS), quantitation ions and relative response factors (RRF) used to quantitate the compound? Compound quantitation and CRQLs were adjusted to reflect all sample dilutions and dry weight factors (if necessary).

N/A

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and R_Ls

Reviewer: _____
2nd Reviewer: _____