

Appendix C

Data Validation Reports



Technical Memorandum

Date: May 28, 2014

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Subject: Data Validation Report
Upper Green River Water Samples

This technical memorandum summarizes the data validation review performed on water samples collected from the Upper Green River between April 4, 2013 and January 29, 2014. These samples included ten baseflow bulk water samples, 16 storm bulk 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).

Baseflow Sample IDs	Storm Sample IDs	Field Blank Sample ID
L58246-1	L57715-1	L57794-1
L58657-1, -2	L57751-1	
L58688-1 to -3	L57772-1	
L58708-1	L58861-1 to -3	
L58791-1	L59148-1 to -3	
L58976-1, -2	L59149-1	
	L59239-1	
	L59240-1, -2	
	L59470-1, -2	
	L59595-1	

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 addendums (King County 2013a, King County 2013b).

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	32	110
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, 2013a, 2013b). The RPD for spike blank duplicate results should be less than this QC limit.

1.5 Laboratory Control Sample

A laboratory control sample is a sample of known analyte concentration(s) that is prepared in the lab from a separate source of analyte(s) relative to the calibration standards. Since the laboratory control sample analysis should follow the entire analytical process, it should be stored and prepared following the same procedures as a field sample. Analysis of a laboratory control sample is used as an indicator of method accuracy and long-term analytical precision. Laboratory control samples were used during TOC/DOC and TSS analyses. King County used percent recovery control limits of 85 to 115% for TOC/DOC analysis and 80 to 120% for TSS analysis on this project. Percent recoveries for laboratory control sample results should be within these control limits.

1.6 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	20	90
Phenanthrene	51	98
Benzo(a)anthracene	83	114
Benzo(a)pyrene	27	150
Benzo(b,j,k)fluoranthene	43	146
Benzo(g,h,i)perylene	26	140
Chrysene	68	115
Dibenzo(a,h)anthracene	24	150
Fluoranthene	65	125
Indeno(1,2,3-c,d)pyrene	20	150
Pyrene	38	150

1.7 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.

1.8 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.

1.9 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 150% 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 27 samples were submitted for analysis of total and dissolved organic carbon and total suspended solids. These 27 samples included ten baseflow bulk water samples (including one field replicate – L58688-3), 16 storm bulk water samples (including three field replicates - L59470-2, L59148-3 and L58861-3), 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 12 QC samples; method blanks, spike blanks, laboratory control samples, matrix spikes, and laboratory duplicates.

2.1.1 Holding Time

All 27 TOC/DOC samples were analyzed within the prescribed 28-day holding time.

2.1.2 Method Blanks

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

2.1.3 Spike Blanks

TOC/DOC spike blank were all within the laboratory QC limits of 80 to 120%, ranging from 91 to 117%.

2.1.4 Laboratory Control Samples

TOC/DOC laboratory control sample recoveries were all within the 85 to 115% QC limits, ranging from 91 to 110%.

2.1.5 Matrix Spikes

TOC/DOC matrix spike recoveries were all within the 75 to 125% QC limits, ranging from 84 to 115%.

2.1.6 Laboratory Duplicates

The RPDs between TOC/DOC laboratory duplicate results were all less than the 20% QC limit, ranging from 0 to 19%.

2.1.7 Other Data Issues

In theory, DOC results should always be less than TOC results for the same sample, as the dissolved portion represents a part of the total. For three samples (L58657-1, L58976-1 and -2), DOC results were greater than TOC results; therefore results for both parameters in all three samples should be qualified with a "J" flag and considered estimated with unknown bias.

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 27 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 82 to 110%.

2.2.4 Laboratory Duplicates

The RPDs between TSS laboratory duplicate results were all less than the 25% QC limit, ranging from 0 to 22%.

3.0 Total and Dissolved Arsenic

A total of 27 samples were submitted for analysis of total and dissolved arsenic by inductively coupled plasma-mass spectrometry following EPA Method 200.8 (EPA 1994). These 27 samples included ten baseflow bulk water samples (including one field replicate – L58688-3), 16 storm bulk water samples (including three field replicates - L59470-2, L59148-3 and L58861-3), and one field blank. Each work group included analysis of a minimum of four QC samples; a method blank, a spike blank, a matrix spike, and a laboratory duplicate.

3.1 Holding Time

All 27 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 27 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 and dissolved arsenic spike blank results were within the empirically-derived laboratory QC limits of 85 to 115%, ranging from 96 to 102%, 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 90 to 105%, 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 1 to 2% for samples with detected arsenic.

4.0 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

A total of 27 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 27 samples included ten baseflow bulk water samples (including one field replicate – L58688-3), 16 storm bulk water samples (including three field replicates - L59470-2, L59148-3 and L58861-3), and one field blank. Associated QC samples included method blanks, spike blanks/spike blank duplicates, and matrix spikes/matrix spike 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 or matrix spike 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 27 samples were extracted within the 14-day holding time and analyzed within the subsequent 40-day holding time.

4.2 Method Blanks

Between three and eight 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, except in the method blank for work group WG128792 where acenaphthene, fluorene, phenanthrene, fluoranthene and pyrene were all detected above the RDL. 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 the method blank concentration is greater than the RDL and the sample concentration is less than the RDL, the sample value should be reported as the method blank concentration and qualified with a “U” flag and considered undetected.
- When both the method blank concentrations and the sample concentration are greater than the RDL, but the sample concentration is less than five 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 both the method blank concentration and the sample concentration are greater than the RDL and the sample concentration is greater than five times the method blank concentration, the sample result may be used as reported, without qualification.
- 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 five 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 five times the method blank concentration, the sample result may be used as reported, without qualification.

4.3 Spike Blanks/Spike Blank Duplicates

All 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

Naphthalene was the only PAH with matrix spike recoveries outside the empirically-derived QC limits of 20-90%. In work group WG128792, the naphthalene matrix spike recovery was 13%; however, the matrix spike duplicate percent recovery was 45% and the RPD between these results is 24%, which is below the 40% laboratory QC limit. Additionally, the average percent recovery of the matrix spike and matrix spike duplicate is within the QC limits, so this result may be used as reported, without qualification.

The naphthalene matrix spike recovery of 93% in work group WG129048 was above the empirically-derived upper QC limit of 90%. There was no matrix spike duplicate analyzed for this

work group. The naphthalene result in sample L58791-1, for which the matrix spike was performed, should be qualified with a “J” flag and considered an estimate with a high bias.

The naphthalene matrix spike recovery of 96% in work group WG129502 was above the empirically-derived upper QC limit of 90%; however, the matrix spike duplicate has a recovery of 38% and the RPD between these results is 39%, which is below the 40% laboratory QC limit. Additionally, the average percent recovery of the matrix spike and matrix spike duplicate is within the QC limits, so this result may be used as reported, without qualification.

The naphthalene matrix spike duplicate recovery of 98% in work group WG129995 was above the empirically-derived upper QC limit of 90%. While, the matrix spike duplicate has a recovery of 56%, the RPD between these results is 41%, which is above the 40% laboratory QC limit. The naphthalene result in sample L59240-1, for which the matrix spike was performed, should be qualified with a “J” flag and considered an estimate with an unknown bias.

The naphthalene matrix spike and matrix spike duplicate recoveries for work group WG130954 were both above the empirically-derived upper QC limit at 114% and 95%, respectively. The naphthalene result in sample L59595-1, for which the matrix spike was performed, should be qualified with a “J” flag and considered an estimate with a high bias.

In work group WG126532, while the naphthalene matrix spike and matrix spike duplicate recoveries were within the QC limits, the RPD was greater than the 40% laboratory QC limit at 45%. The naphthalene result in sample L57772-1, for which the matrix spike was performed, should be qualified with a “J” flag and considered an estimate with an unknown 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.

4.6 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. Table 1 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 2013a. *Green River Study Addendum – Sampling and Analysis Plan.* Prepared by Deb Lester. Water and Land Resources Division. Seattle, Washington.
- King County 2013b. *Upper Green River Basin Water Quality Survey – Sampling and Analysis Plan.* Prepared by Carly Greyell, Debra Williston and Deb Lester. King County Water and Land Resources Division. Seattle, Washington.

Table 1**Data Validation for Upper Green River Water Samples****Qualifier Flags for Bulk Water Samples**

Work Group	Locator	Date	Sample	Matrix	Parameter	Value	Units	Qualifier	MDL	RDL	DV Value	DV Flag	Bias
WG126306	KP319	04/04/13	L57715-1	LG STORM WTR	Acenaphthene	0.00048	µg/L	<RDL	0.00033	0.00142	0.00048	U	
WG126306	KP319	04/04/13	L57715-1	LG STORM WTR	Fluoranthene	0.00042	µg/L	<RDL,B	0.00016	0.000943	0.000943	U	
WG126306	KP319	04/04/13	L57715-1	LG STORM WTR	Phenanthrene	0.001	µg/L	<RDL,B	0.00019	0.00189	0.00189	U	
WG126306	KP319	04/10/13	L57751-1	LG STORM WTR	Fluoranthene	0.00065	µg/L	<RDL,B	0.00016	0.000943	0.000943	U	
WG126306	KP319	04/10/13	L57751-1	LG STORM WTR	Phenanthrene	0.0013	µg/L	<RDL,B	0.00019	0.00189	0.00189	U	
WG126306	KP319	04/10/13	L57751-1	LG STORM WTR	Pyrene	0.00032	µg/L	<RDL,B	0.00024	0.000943	0.000943	U	
WG126532	KP319	04/18/13	L57772-1	LG STORM WTR	2-Methylnaphthalene	0.0013	µg/L	<RDL,B	0.00061	0.00283	0.00283	U	
WG126532	KP319	04/18/13	L57772-1	LG STORM WTR	Fluoranthene	0.00078	µg/L	<RDL,B	0.00016	0.000943	0.000943	U	
WG126532	KP319	04/18/13	L57772-1	LG STORM WTR	Fluorene	0.00067	µg/L	<RDL,B	0.00024	0.000943	0.000943	U	
WG126532	KP319	04/18/13	L57772-1	LG STORM WTR	Naphthalene	0.0192	µg/L	J	0.00061	0.00472	0.0192	J	unknown
WG126532	KP319	04/18/13	L57772-1	LG STORM WTR	Phenanthrene	0.0015	µg/L	<RDL,B	0.00019	0.00189	0.00189	U	
WG126532	EQUIPBLANK	04/23/13	L57794-1	LN BLANK WTR	2-Methylnaphthalene	0.0011	µg/L	<RDL,B	0.00061	0.00283	0.00283	U	
WG126532	EQUIPBLANK	04/23/13	L57794-1	LN BLANK WTR	Fluoranthene	0.00047	µg/L	<RDL,B	0.00016	0.000943	0.000943	U	
WG126532	EQUIPBLANK	04/23/13	L57794-1	LN BLANK WTR	Fluorene	0.00043	µg/L	<RDL,B	0.00024	0.000943	0.000943	U	
WG126532	EQUIPBLANK	04/23/13	L57794-1	LN BLANK WTR	Phenanthrene	0.0015	µg/L	<RDL,B	0.00019	0.00189	0.00189	U	
WG126532	EQUIPBLANK	04/23/13	L57794-1	LN BLANK WTR	Pyrene	0.00041	µg/L	<RDL,B	0.00024	0.000943	0.000943	U	
WG126593	KP319	04/04/13	L57715-1	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.23	µg/L	<RDL, H	0.1	0.5	0.23	J	unknown
WG126593	KP319	04/10/13	L57751-1	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.23	µg/L	<RDL, H	0.1	0.5	0.23	J	unknown
WG126593	KP319	04/18/13	L57772-1	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.29	µg/L	<RDL, H	0.1	0.5	0.29	J	unknown
WG126593	EQUIPBLANK	04/23/13	L57794-1	LN BLANK WTR	Arsenic, Dissolved, ICP-MS		µg/L	<MDL, H	0.1	0.5	0.1	U	
WG127806	KP319	07/10/13	L58246-1	LK FRESH WTR	2-Methylnaphthalene	0.0021	µg/L	<RDL,B	0.00061	0.00283	0.00283	U	
WG127806	KP319	07/10/13	L58246-1	LK FRESH WTR	Fluoranthene	0.00063	µg/L	<RDL,B	0.00016	0.000943	0.000943	U	
WG127806	KP319	07/10/13	L58246-1	LK FRESH WTR	Fluorene	0.00088	µg/L	<RDL,B	0.00024	0.000943	0.000943	U	
WG127806	KP319	07/10/13	L58246-1	LK FRESH WTR	Phenanthrene	0.0017	µg/L	<RDL,B	0.00019	0.00189	0.00189	U	
WG127806	KP319	07/10/13	L58246-1	LK FRESH WTR	Pyrene	0.00029	µg/L	<RDL,B	0.00024	0.000943	0.000943	U	
WG127897	KP319	07/10/13	L58246-1	LK FRESH WTR	Arsenic, Dissolved, ICP-MS	0.623	µg/L	H	0.1	0.5	0.623	J	unknown
WG128714	SC319	09/04/13	L58657-1	LK FRESH WTR	Dissolved Organic Carbon	2.59	mg/L	J	0.5	1	2.59	J	unknown
WG128714	SC319	09/04/13	L58657-1	LK FRESH WTR	Total Organic Carbon	1.42	mg/L	J	0.5	1	1.42	J	unknown
WG128792	SC319	09/04/13	L58657-1	LK FRESH WTR	2-Methylnaphthalene	0.0015	µg/L	<RDL,B	0.00062	0.00284	0.00284	U	
WG128792	SC319	09/04/13	L58657-1	LK FRESH WTR	Acenaphthene	0.00078	µg/L	<RDL,B	0.00033	0.00142	0.00142	U	
WG128792	SC319	09/04/13	L58657-1	LK FRESH WTR	Acenaphthylene	0.00028	µg/L	<RDL,B	0.00024	0.000474	0.000474	U	
WG128792	SC319	09/04/13	L58657-1	LK FRESH WTR	Fluoranthene	0.00126	µg/L	B	0.00016	0.000948	0.00126	U	
WG128792	SC319	09/04/13	L58657-1	LK FRESH WTR	Fluorene	0.00105	µg/L	B	0.00024	0.000948	0.00105	U	

Work Group	Locator	Date	Sample	Matrix	Parameter	Value	Units Qualifier	MDL	RDL	DV Value	DV Flag	Bias
WG128792	SC319	09/04/13	L58657-1	LK FRESH WTR	Phenanthrene	0.00341	µg/L B	0.00019	0.0019	0.00341	U	
WG128792	SC319	09/04/13	L58657-1	LK FRESH WTR	Pyrene	0.00051	µg/L <RDL,B	0.00024	0.000948	0.000948	U	
WG128792	UG319	09/04/13	L58657-2	LK FRESH WTR	2-Methylnaphthalene	0.0016	µg/L <RDL,B	0.00062	0.00284	0.00284	U	
WG128792	UG319	09/04/13	L58657-2	LK FRESH WTR	Acenaphthene	0.00064	µg/L <RDL,B	0.00033	0.00142	0.00142	U	
WG128792	UG319	09/04/13	L58657-2	LK FRESH WTR	Fluoranthene	0.00087	µg/L <RDL,B	0.00016	0.000948	0.000948	U	
WG128792	UG319	09/04/13	L58657-2	LK FRESH WTR	Fluorene	0.00092	µg/L <RDL,B	0.00024	0.000948	0.000948	U	
WG128792	UG319	09/04/13	L58657-2	LK FRESH WTR	Phenanthrene	0.00289	µg/L B	0.00019	0.0019	0.00289	U	
WG128792	UG319	09/04/13	L58657-2	LK FRESH WTR	Pyrene	0.00035	µg/L <RDL,B	0.00024	0.000948	0.000948	U	
WG128792	SC319	09/10/13	L58688-1	LK FRESH WTR	2-Methylnaphthalene	0.00073	µg/L <RDL,B	0.00061	0.00283	0.00283	U	
WG128792	SC319	09/10/13	L58688-1	LK FRESH WTR	Acenaphthene	0.00041	µg/L <RDL,B	0.00033	0.00142	0.00142	U	
WG128792	SC319	09/10/13	L58688-1	LK FRESH WTR	Fluoranthene	0.00072	µg/L <RDL,B	0.00016	0.000943	0.000943	U	
WG128792	SC319	09/10/13	L58688-1	LK FRESH WTR	Fluorene	0.00051	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG128792	SC319	09/10/13	L58688-1	LK FRESH WTR	Phenanthrene	0.0017	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG128792	SC319	09/10/13	L58688-1	LK FRESH WTR	Pyrene	0.00034	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG128792	UG319	09/10/13	L58688-2	LK FRESH WTR	2-Methylnaphthalene	0.00067	µg/L <RDL,B	0.00061	0.00283	0.00283	U	
WG128792	UG319	09/10/13	L58688-2	LK FRESH WTR	Fluoranthene	0.00054	µg/L <RDL,B	0.00016	0.000943	0.000943	U	
WG128792	UG319	09/10/13	L58688-2	LK FRESH WTR	Fluorene	0.00038	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG128792	UG319	09/10/13	L58688-2	LK FRESH WTR	Phenanthrene	0.0013	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG128792	UG319	09/10/13	L58688-2	LK FRESH WTR	Pyrene	0.00026	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG128792	UG319	09/10/13	L58688-3	LK FRESH WTR	2-Methylnaphthalene	0.00092	µg/L <RDL,B	0.00061	0.00283	0.00283	U	
WG128792	UG319	09/10/13	L58688-3	LK FRESH WTR	Acenaphthene	0.00058	µg/L <RDL,B	0.00033	0.00142	0.00142	U	
WG128792	UG319	09/10/13	L58688-3	LK FRESH WTR	Fluoranthene	0.00094	µg/L <RDL,B	0.00016	0.000943	0.000943	U	
WG128792	UG319	09/10/13	L58688-3	LK FRESH WTR	Fluorene	0.00075	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG128792	UG319	09/10/13	L58688-3	LK FRESH WTR	Phenanthrene	0.00283	µg/L B	0.00019	0.00189	0.00283	U	
WG128792	UG319	09/10/13	L58688-3	LK FRESH WTR	Pyrene	0.00044	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG128792	KP319	09/10/13	L58708-1	LK FRESH WTR	2-Methylnaphthalene	0.0013	µg/L <RDL,B	0.00061	0.00283	0.00283	U	
WG128792	KP319	09/10/13	L58708-1	LK FRESH WTR	Acenaphthene	0.00097	µg/L <RDL,B	0.00033	0.00142	0.00142	U	
WG128792	KP319	09/10/13	L58708-1	LK FRESH WTR	Fluoranthene	0.00159	µg/L B	0.00016	0.000943	0.00159	U	
WG128792	KP319	09/10/13	L58708-1	LK FRESH WTR	Fluorene	0.00091	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG128792	KP319	09/10/13	L58708-1	LK FRESH WTR	Phenanthrene	0.00265	µg/L B	0.00019	0.00189	0.00265	U	
WG128792	KP319	09/10/13	L58708-1	LK FRESH WTR	Pyrene	0.00086	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG129048	KP319	09/19/13	L58791-1	LK FRESH WTR	2-Methylnaphthalene	0.0014	µg/L <RDL,B	0.00061	0.00283	0.00283	U	
WG129048	KP319	09/19/13	L58791-1	LK FRESH WTR	Fluoranthene	0.00071	µg/L <RDL,B	0.00016	0.000943	0.000943	U	
WG129048	KP319	09/19/13	L58791-1	LK FRESH WTR	Fluorene	0.00078	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG129048	KP319	09/19/13	L58791-1	LK FRESH WTR	Naphthalene	0.0453	µg/L	0.00061	0.00472	0.0453	J	high
WG129048	KP319	09/19/13	L58791-1	LK FRESH WTR	Phenanthrene	0.00203	µg/L B	0.00019	0.00189	0.00203	U	
WG129048	KP319	09/19/13	L58791-1	LK FRESH WTR	Pyrene	0.00031	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG129229	SC319	09/04/13	L58657-1	LK FRESH WTR	Arsenic, Dissolved, ICP-MS	--	µg/L <MDL, H	0.1	0.5	0.1	U	

Work Group	Locator	Date	Sample	Matrix	Parameter	Value	Units Qualifier	MDL	RDL	DV Value	DV Flag	Bias
WG129229	UG319	09/04/13	L58657-2	LK FRESH WTR	Arsenic, Dissolved, ICP-MS	0.16	µg/L <RDL, H	0.1	0.5	0.16	J	unknown
WG129229	SC319	09/10/13	L58688-1	LK FRESH WTR	Arsenic, Dissolved, ICP-MS	--	µg/L <MDL, H	0.1	0.5	0.1	U	
WG129229	UG319	09/10/13	L58688-2	LK FRESH WTR	Arsenic, Dissolved, ICP-MS	0.15	µg/L <RDL, H	0.1	0.5	0.15	J	unknown
WG129229	UG319	09/10/13	L58688-3	LK FRESH WTR	Arsenic, Dissolved, ICP-MS	0.14	µg/L <RDL, H	0.1	0.5	0.14	J	unknown
WG129229	KP319	09/10/13	L58708-1	LK FRESH WTR	Arsenic, Dissolved, ICP-MS	0.881	µg/L H	0.1	0.5	0.881	J	unknown
WG129229	KP319	09/19/13	L58791-1	LK FRESH WTR	Arsenic, Dissolved, ICP-MS	0.763	µg/L H	0.1	0.5	0.763	J	unknown
WG129237	UG319	10/01/13	L58861-1	LG STORM WTR	Phenanthrene	0.00077	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG129237	SC319	10/01/13	L58861-2	LG STORM WTR	Phenanthrene	0.00048	µg/L <RDL,B	0.00019	0.00192	0.00192	U	
WG129237	UG319	10/01/13	L58861-3	LG STORM WTR	Phenanthrene	0.00077	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG129502	UG319	10/17/13	L58976-1	LK FRESH WTR	Fluoranthene	0.00044	µg/L <RDL,B	0.00016	0.000943	0.000943	U	
WG129502	UG319	10/17/13	L58976-1	LK FRESH WTR	Phenanthrene	0.00081	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG129502	UG319	10/17/13	L58976-1	LK FRESH WTR	Pyrene	0.00026	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG129502	SC319	10/17/13	L58976-2	LK FRESH WTR	2-Methylnaphthalene	0.0007	µg/L <RDL,B	0.00061	0.00283	0.00283	U	
WG129502	SC319	10/17/13	L58976-2	LK FRESH WTR	Fluoranthene	0.00042	µg/L <RDL,B	0.00016	0.000943	0.000943	U	
WG129502	SC319	10/17/13	L58976-2	LK FRESH WTR	Phenanthrene	0.00084	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG129502	SC319	10/17/13	L58976-2	LK FRESH WTR	Pyrene	0.00026	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG129576	UG319	10/01/13	L58861-1	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.15	µg/L <RDL,H	0.1	0.5	0.15	J	unknown
WG129576	SC319	10/01/13	L58861-2	LG STORM WTR	Arsenic, Dissolved, ICP-MS	--	µg/L <MDL, H	0.1	0.5	0.1	U	
WG129576	UG319	10/01/13	L58861-3	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.14	µg/L <RDL,H	0.1	0.5	0.14	J	unknown
WG129576	UG319	10/17/13	L58976-1	LK FRESH WTR	Arsenic, Dissolved, ICP-MS	0.12	µg/L <RDL,H	0.1	0.5	0.12	J	unknown
WG129576	SC319	10/17/13	L58976-2	LK FRESH WTR	Arsenic, Dissolved, ICP-MS	--	µg/L <MDL, H	0.1	0.5	0.1	U	
WG129586	UG319	10/17/13	L58976-1	LK FRESH WTR	Dissolved Organic Carbon	1.28	mg/L J	0.5	1	1.28	J	unknown
WG129586	UG319	10/17/13	L58976-1	LK FRESH WTR	Total Organic Carbon	0.75	mg/L <RDL,J	0.5	1	0.75	J	unknown
WG129821	SC319	11/07/13	L59148-2	LG STORM WTR	Fluoranthene	0.00052	µg/L <RDL,B	0.00016	0.000943	0.000943	U	
WG129821	SC319	11/07/13	L59148-2	LG STORM WTR	Phenanthrene	0.0008	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG129821	SC319	11/07/13	L59148-3	LG STORM WTR	Fluoranthene	0.00052	µg/L <RDL,B	0.00016	0.000943	0.000943	U	
WG129821	SC319	11/07/13	L59148-3	LG STORM WTR	Phenanthrene	0.00086	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG129821	KP319	11/06/13	L59149-1	LG STORM WTR	Fluoranthene	0.00091	µg/L <RDL,B	0.00016	0.000943	0.000943	U	
WG129821	KP319	11/06/13	L59149-1	LG STORM WTR	Phenanthrene	0.0014	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG129995	KP319	11/18/13	L59239-1	LG STORM WTR	2-Methylnaphthalene	0.0013	µg/L <RDL,B	0.00061	0.00283	0.00283	U	
WG129995	KP319	11/18/13	L59239-1	LG STORM WTR	Fluoranthene	0.00124	µg/L B	0.00016	0.000943	0.00124	U	
WG129995	KP319	11/18/13	L59239-1	LG STORM WTR	Phenanthrene	0.00206	µg/L B	0.00019	0.00189	0.00206	U	
WG129995	KP319	11/18/13	L59239-1	LG STORM WTR	Pyrene	0.00084	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG129995	UG319	11/19/13	L59240-1	LG STORM WTR	2-Methylnaphthalene	0.00079	µg/L <RDL,B	0.00061	0.00283	0.00283	U	
WG129995	UG319	11/19/13	L59240-1	LG STORM WTR	Fluoranthene	0.00053	µg/L <RDL,B	0.00016	0.000943	0.000943	U	
WG129995	UG319	11/19/13	L59240-1	LG STORM WTR	Naphthalene	0.0251	µg/L J	0.00061	0.00472	0.0251	J	unknown
WG129995	UG319	11/19/13	L59240-1	LG STORM WTR	Phenanthrene	0.0011	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG129995	SC319	11/19/13	L59240-2	LG STORM WTR	Fluoranthene	0.00068	µg/L <RDL,B	0.00016	0.000943	0.000943	U	

Work Group	Locator	Date	Sample	Matrix	Parameter	Value	Units Qualifier	MDL	RDL	DV Value	DV Flag	Bias
WG129995	SC319	11/19/13	L59240-2	LG STORM WTR	Phenanthrene	0.0012	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG130113	UG319	11/07/13	L59148-1	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.16	µg/L <RDL,H	0.1	0.5	0.16	J	unknown
WG130113	SC319	11/07/13	L59148-2	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.11	µg/L <RDL,H	0.1	0.5	0.11	J	unknown
WG130113	SC319	11/07/13	L59148-3	LG STORM WTR	Arsenic, Dissolved, ICP-MS	--	µg/L <MDL, H	0.1	0.5	0.1	U	
WG130113	KP319	11/06/13	L59149-1	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.39	µg/L <RDL,H	0.1	0.5	0.39	J	unknown
WG130113	KP319	11/18/13	L59239-1	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.27	µg/L <RDL,H	0.1	0.5	0.27	J	unknown
WG130113	UG319	11/19/13	L59240-1	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.15	µg/L <RDL,H	0.1	0.5	0.15	J	unknown
WG130113	SC319	11/19/13	L59240-2	LG STORM WTR	Arsenic, Dissolved, ICP-MS	--	µg/L <MDL, H	0.1	0.5	0.1	U	
WG130669	KP319	01/08/14	L59470-1	LG STORM WTR	Fluoranthene	0.00078	µg/L <RDL,B	0.00016	0.000952	0.000952	U	
WG130669	KP319	01/08/14	L59470-1	LG STORM WTR	Phenanthrene	0.0015	µg/L <RDL,B	0.00019	0.0019	0.0019	U	
WG130669	KP319	01/08/14	L59470-1	LG STORM WTR	Pyrene	0.00057	µg/L <RDL,B	0.00024	0.000952	0.000952	U	
WG130669	KP319	01/08/14	L59470-2	LG STORM WTR	Fluoranthene	0.000951	µg/L B	0.00016	0.000943	0.000951	U	
WG130669	KP319	01/08/14	L59470-2	LG STORM WTR	Phenanthrene	0.0018	µg/L <RDL,B	0.00019	0.00189	0.00189	U	
WG130669	KP319	01/08/14	L59470-2	LG STORM WTR	Pyrene	0.00056	µg/L <RDL,B	0.00024	0.000943	0.000943	U	
WG130931	KP319	01/08/14	L59470-1	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.36	µg/L <RDL,H	0.1	0.5	0.36	J	unknown
WG130931	KP319	01/08/14	L59470-2	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.34	µg/L <RDL,H	0.1	0.5	0.34	J	unknown
WG130931	KP319	01/29/14	L59595-1	LG STORM WTR	Arsenic, Dissolved, ICP-MS	0.33	µg/L <RDL,H	0.1	0.5	0.33	J	unknown
WG130954	KP319	01/29/14	L59595-1	LG STORM WTR	2-Methylnaphthalene	0.0019	µg/L <RDL,B	0.00062	0.00286	0.00286	U	
WG130954	KP319	01/29/14	L59595-1	LG STORM WTR	Fluoranthene	0.0013	µg/L B	0.00016	0.000952	0.0013	U	
WG130954	KP319	01/29/14	L59595-1	LG STORM WTR	Fluorene	0.00082	µg/L <RDL,B	0.00024	0.000952	0.000952	U	
WG130954	KP319	01/29/14	L59595-1	LG STORM WTR	Naphthalene	0.114	µg/L JL	0.00062	0.00476	0.114	J	high
WG130954	KP319	01/29/14	L59595-1	LG STORM WTR	Phenanthrene	0.00207	µg/L B	0.00019	0.0019	0.00207	U	
WG130954	KP319	01/29/14	L59595-1	LG STORM WTR	Pyrene	0.00089	µg/L <RDL,B	0.00024	0.000952	0.000952	U	

MDL - Method detection limit

RDL - Reporting detection limit

DV Vale - Validated result

DV Flag - Data validation flag

U - Non-detect

B - Result within 5 times the method blank concentration

J - Estimated value

H - Exceeded holding time

JL - Estimated value with a high bias

ATTACHMENT A

LIMS BATCH AND QC REPORTS

LIMSView Batch Report for Upper Green River Water Sampling - Data Validation for DOC & TOC - Part 1

WG126438 (toc/doc) Department: 3 - Conventional Move Date: 2013-04-22 14:15:31

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L57660-1	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	04/16/13	04/17/13	04/18/13	
L57660-1	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	04/16/13	04/17/13	04/17/13	
L57660-2	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	04/16/13	04/17/13	04/18/13	
L57660-2	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	04/16/13	04/17/13	04/17/13	
L57660-3	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	04/16/13	04/17/13	04/18/13	
L57660-3	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	04/16/13	04/17/13	04/17/13	
L57661-1	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	04/16/13	04/17/13	04/18/13	
L57661-1	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	04/16/13	04/18/13	04/18/13	
L57661-2	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	04/16/13	04/17/13	04/18/13	
L57661-2	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	04/16/13	04/18/13	04/18/13	
L57661-3	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	04/16/13	04/17/13	04/18/13	
L57661-3	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	04/16/13	04/18/13	04/18/13	
L57672-5	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	04/11/13	04/17/13	04/17/13	
L57672-7	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	04/11/13	04/17/13	04/17/13	
L57675-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/09/13	04/16/13	04/16/13	
L57675-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/08/13	04/16/13	04/16/13	
L57675-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/08/13	04/16/13	04/16/13	
L57675-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/08/13	04/16/13	04/16/13	
L57675-7	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/08/13	04/16/13	04/16/13	
L57680-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/10/13	04/16/13	04/16/13	
L57680-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/10/13	04/16/13	04/16/13	
L57681-1	421422-CHGW-NP	SWD-CHGW-NP Cedar Hills Groundwater Non-Potable	CVTOC	GRND WTR	04/09/13	04/16/13	04/16/13	
L57683-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/09/13	04/16/13	04/16/13	
L57683-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/09/13	04/16/13	04/16/13	
L57683-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/09/13	04/16/13	04/16/13	
L57686-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/11/13	04/16/13	04/16/13	
L57686-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/10/13	04/17/13	04/17/13	
L57686-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/11/13	04/17/13	04/17/13	
L57686-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/12/13	04/17/13	04/17/13	
L57689-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/12/13	04/17/13	04/17/13	
L57689-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/12/13	04/17/13	04/17/13	
L57689-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/12/13	04/17/13	04/17/13	
L57689-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/15/13	04/17/13	04/17/13	
L57691-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/15/13	04/17/13	04/17/13	
L57691-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/15/13	04/17/13	04/17/13	
L57691-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/16/13	04/17/13	04/17/13	
L57715-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	04/04/13	04/05/13	04/18/13	Sample
L57715-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	04/04/13	04/17/13	04/17/13	Sample

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L57719-1	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/17/13	04/17/13	04/17/13	
L57719-2	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/16/13	04/17/13	04/17/13	
L57719-3	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/16/13	04/17/13	04/17/13	
L57719-4	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/16/13	04/17/13	04/17/13	
L57719-5	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/16/13	04/17/13	04/17/13	
L57719-6	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/16/13	04/17/13	04/17/13	
L57719-7	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/16/13	04/17/13	04/17/13	
L57719-8	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/17/13	04/17/13	04/17/13	
L57719-9	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/18/13	04/18/13	04/18/13	
L57719-10	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/18/13	04/18/13	04/18/13	
L57719-11	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/18/13	04/18/13	04/18/13	
L57719-12	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/18/13	04/18/13	04/18/13	
L57719-13	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	04/18/13	04/18/13	04/18/13	
L57751-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	04/10/13	04/11/13	04/18/13	Sample
L57751-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	04/10/13	04/17/13	04/17/13	Sample
WG126438-1	MB		CVTOC	BLANK WTR		04/16/13	04/16/13	MB1 130416
WG126438-2	LCS		CVTOC	BLANK WTR		04/16/13	04/16/13	LEVEL1
WG126438-3	SB		CVTOC	BLANK WTR		04/16/13	04/16/13	WG126438-1
WG126438-4	LD		CVTOC	GRND WTR		04/16/13	04/16/13	L57683-5
WG126438-5	MS		CVTOC	GRND WTR		04/16/13	04/16/13	L57686-1
WG126438-6	MB		CVTOC	BLANK WTR		04/17/13	04/17/13	MB1 130417
WG126438-7	LCS		CVTOC	BLANK WTR		04/17/13	04/17/13	LEVEL1
WG126438-8	SB		CVTOC	BLANK WTR		04/17/13	04/17/13	WG126438-6
WG126438-9	LD		CVTOC	GRND WTR		04/17/13	04/17/13	L57686-5
WG126438-10	MS		CVTOC	GRND WTR		04/17/13	04/17/13	L57686-6
WG126438-11	LD		CVTOC	STORM WTR		04/17/13	04/17/13	L57715-1
WG126438-12	MS		CVTOC	STORM WTR		04/17/13	04/17/13	L57751-1
WG126438-13	MB		CVTOC	BLANK WTR		04/17/13	04/17/13	MB2 130417
WG126438-14	LCS		CVTOC	BLANK WTR		04/17/13	04/17/13	LEVEL1
WG126438-15	MS		CVTOC	LEACHATE		04/17/13	04/17/13	L57672-5
WG126438-16	LD		CVTOC	LEACHATE		04/17/13	04/17/13	L57672-7
WG126438-17	MS		CVTOC	FRESH WTR		04/17/13	04/17/13	L57660-1
WG126438-18	MB		CVDOC	BLANK WTR		04/05/13	04/18/13	MB1 130405
WG126438-19	LCS		CVDOC	BLANK WTR		04/18/13	04/18/13	LEVEL1
WG126438-20	SB		CVDOC	BLANK WTR		04/05/13	04/18/13	WG126438-18
WG126438-21	LD		CVDOC	STORM WTR		04/05/13	04/18/13	L57715-1
WG126438-22	MS		CVDOC	STORM WTR		04/05/13	04/18/13	L57715-1
WG126438-23	MB		CVDOC	BLANK WTR		04/11/13	04/18/13	MB1 130411
WG126438-24	MB		CVDOC	BLANK WTR		04/17/13	04/18/13	MB1 130417
WG126438-25	MS		CVDOC	FRESH WTR		04/17/13	04/18/13	L57660-3
WG126438-26	LD		CVDOC	FRESH WTR		04/17/13	04/18/13	L57661-2

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WG126438-27	MB		CVTOC	BLANK WTR	04/18/13	04/18/13	MB1 130418
WG126438-28	LCS		CVTOC	BLANK WTR	04/18/13	04/18/13	LEVEL1
WG126438-29	LD		CVTOC	SALT WTR	04/18/13	04/18/13	L57661-3
WG126438-30	SB		CVTOC	BLANK WTR	04/18/13	04/18/13	WG126438-27
WG126438-31	LD		CVTOC	FRESH WTR	04/18/13	04/18/13	L57719-9
WG126438-32	MS		CVTOC	FRESH WTR	04/18/13	04/18/13	L57719-11

WG126534 (toc/doc) Department: 3 - Conventionals Move Date: 2013-05-02 09:12:30

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L57683-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/25/13	04/25/13	04/25/13	
L57691-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/25/13	04/25/13	04/25/13	
L57721-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/18/13	04/25/13	04/25/13	
L57721-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/18/13	04/24/13	04/24/13	
L57721-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/19/13	04/24/13	04/24/13	
L57721-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/24/13	04/24/13	04/24/13	
L57724-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/19/13	04/24/13	04/24/13	
L57724-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/19/13	04/25/13	04/25/13	
L57724-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/22/13	04/24/13	04/24/13	
L57724-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/19/13	04/24/13	04/24/13	
L57725-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/22/13	04/24/13	04/24/13	
L57725-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/22/13	04/24/13	04/24/13	
L57725-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/23/13	04/24/13	04/24/13	
L57725-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/23/13	04/24/13	04/24/13	
L57753-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/23/13	04/24/13	04/24/13	
L57753-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/23/13	04/24/13	04/24/13	
L57753-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	04/25/13	04/25/13	04/25/13	
L57772-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	04/18/13	04/19/13	04/25/13	SAMP
L57772-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	04/18/13	04/25/13	04/25/13	SAMP
L57794-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	BLANK WTR	04/23/13	04/23/13	04/25/13	
L57794-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	BLANK WTR	04/23/13	04/25/13	04/25/13	
WG126534-1	MB		CVTOC	BLANK WTR		04/24/13	04/24/13	MB1 130424
WG126534-2	LCS		CVTOC	BLANK WTR		04/24/13	04/24/13	LEVEL1
WG126534-3	SB		CVTOC	BLANK WTR		04/24/13	04/24/13	WG126534-1
WG126534-4	LD		CVTOC	GRND WTR		04/24/13	04/24/13	L57724-6
WG126534-5	MS		CVTOC	GRND WTR		04/24/13	04/24/13	L57753-2
WG126534-6	MB		CVDOC	BLANK WTR		04/19/13	04/25/13	MB1 130419
WG126534-7	LCS		CVDOC	BLANK WTR		04/25/13	04/25/13	LEVEL1
WG126534-8	SB		CVDOC	BLANK WTR		04/19/13	04/25/13	WG126534-6
WG126534-9	LD		CVDOC	STORM WTR		04/19/13	04/25/13	L57772-1
WG126534-10	MS		CVDOC	STORM WTR		04/19/13	04/25/13	L57772-1

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WG126534-11	MB		CVDOC	BLANK WTR	04/23/13	04/25/13	MB1 130423
WG126534-12	LD		CVDOC	BLANK WTR	04/23/13	04/25/13	L57794-1
WG126534-13	MS		CVDOC	BLANK WTR	04/23/13	04/25/13	L57794-1
WG126534-14	MB		CVTOC	BLANK WTR	04/25/13	04/25/13	MB1 130425
WG126534-15	LCS		CVTOC	BLANK WTR	04/25/13	04/25/13	LEVEL1
WG126534-16	SB		CVTOC	BLANK WTR	04/25/13	04/25/13	WG126534-14
WG126534-17	LD		CVTOC	STORM WTR	04/25/13	04/25/13	L57772-1
WG126534-18	MS		CVTOC	STORM WTR	04/25/13	04/25/13	L57772-1
WG126534-19	LD		CVTOC	BLANK WTR	04/25/13	04/25/13	L57794-1
WG126534-20	MS		CVTOC	BLANK WTR	04/25/13	04/25/13	L57794-1

WG127792 (toc/doc) Department: 3 - Conventional Move Date: 2013-07-19 14:23:21

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58200-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	07/12/13	07/12/13	07/12/13	
L58200-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	07/12/13	07/12/13	07/12/13	
L58203-1	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	07/10/13	07/12/13	07/12/13	
L58203-3	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	07/10/13	07/11/13	07/11/13	
L58203-4	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	07/10/13	07/11/13	07/11/13	
L58203-5	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	07/10/13	07/11/13	07/11/13	
L58203-7	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	07/10/13	07/11/13	07/11/13	
L58233-1	421422-VALS-M	SWD-VALS-M Vashon Leachate Monthly	CVTOC	LEACHATE	07/10/13	07/11/13	07/11/13	
L58233-3	421422-VALS-M	SWD-VALS-M Vashon Leachate Monthly	CVTOC	LEACHATE	07/10/13	07/11/13	07/11/13	
L58246-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	07/10/13	07/11/13	07/11/13	SAMP
L58246-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	07/10/13	07/11/13	07/11/13	SAMP
WG127792-1	MB		CVTOC	BLANK WTR		07/11/13	07/11/13	MB1 130711
WG127792-2	LCS		CVTOC	BLANK WTR		07/11/13	07/11/13	LEVEL1
WG127792-3	SB		CVTOC	BLANK WTR		07/11/13	07/11/13	WG127792-1
WG127792-4	LD		CVTOC	FRESH WTR		07/11/13	07/11/13	L58246-1
WG127792-5	MS		CVTOC	FRESH WTR		07/11/13	07/11/13	L58246-1
WG127792-6	MB		CVDOC	BLANK WTR		07/11/13	07/11/13	MB1 130711
WG127792-7	LCS		CVDOC	BLANK WTR		07/11/13	07/11/13	LEVEL1
WG127792-8	SB		CVDOC	BLANK WTR		07/11/13	07/11/13	WG127792-6
WG127792-9	LD		CVDOC	FRESH WTR		07/11/13	07/11/13	L58246-1
WG127792-10	MS		CVDOC	FRESH WTR		07/11/13	07/11/13	L58246-1
WG127792-11	MB		CVTOC	BLANK WTR		07/12/13	07/12/13	MB1 130712
WG127792-12	LCS		CVTOC	BLANK WTR		07/12/13	07/12/13	LEVEL1
WG127792-13	LD		CVTOC	LEACHATE		07/12/13	07/12/13	L58203-1
WG127792-14	MS		CVTOC	LEACHATE		07/12/13	07/12/13	L58203-1
WG127792-15	SB		CVTOC	BLANK WTR		07/12/13	07/12/13	WG127792-11
WG127792-16	LD		CVTOC	GRND WTR		07/12/13	07/12/13	L58200-2

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WG127792-17	MS		CVTOC	GRND WTR		07/12/13	07/12/13	L58200-2
WG128714 (TOC/DOC) Department: 3 - Conventional Move Date: 2013-09-12 16:34:08								
Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58305-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/06/13	09/06/13	09/06/13	
L58306-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/06/13	09/06/13	09/06/13	
L58464-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	08/29/13	09/05/13	09/05/13	
L58464-3	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	08/29/13	09/05/13	09/05/13	
L58598-1	421937	Brightwater Operations	CVDOC	EFFLUENT	08/29/13	08/30/13	09/05/13	
L58598-1	421937	Brightwater Operations	CVTOC	EFFLUENT	08/29/13	09/05/13	09/05/13	
L58606-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/06/13	09/06/13	09/06/13	
L58606-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/06/13	09/06/13	09/06/13	
L58623-1	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	09/04/13	09/05/13	09/05/13	
L58623-3	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	09/04/13	09/05/13	09/05/13	
L58623-4	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	09/04/13	09/05/13	09/05/13	
L58623-5	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	09/04/13	09/05/13	09/05/13	
L58626-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	08/30/13	09/05/13	09/05/13	
L58626-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/04/13	09/05/13	09/05/13	
L58628-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/04/13	09/05/13	09/05/13	
L58628-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/05/13	09/05/13	09/05/13	
L58635-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/06/13	09/06/13	09/06/13	
L58635-4	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/06/13	09/06/13	09/06/13	
L58635-5	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/05/13	09/05/13	09/05/13	
L58639-1	421937	Brightwater Operations	CVDOC	EFFLUENT	09/03/13	09/04/13	09/05/13	
L58639-1	421937	Brightwater Operations	CVTOC	EFFLUENT	09/03/13	09/05/13	09/05/13	
L58640-1	421937	Brightwater Operations	CVDOC	EFFLUENT	09/05/13	09/05/13	09/05/13	
L58640-1	421937	Brightwater Operations	CVTOC	EFFLUENT	09/05/13	09/05/13	09/05/13	
L58657-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/04/13	09/05/13	09/06/13	SAMP
L58657-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/04/13	09/05/13	09/05/13	SAMP
L58657-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/04/13	09/05/13	09/06/13	SAMP
L58657-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/04/13	09/05/13	09/05/13	SAMP
WG128714-1	MB		CVTOC	BLANK WTR		09/05/13	09/05/13	MB1 130905
WG128714-2	LCS		CVTOC	BLANK WTR		09/05/13	09/05/13	LEVEL1
WG128714-3	SB		CVTOC	BLANK WTR		09/05/13	09/05/13	WG128714-1
WG128714-4	LD		CVTOC	GRND WTR		09/05/13	09/05/13	L58628-1
WG128714-5	MS		CVTOC	GRND WTR		09/05/13	09/05/13	L58628-1
WG128714-6	LD		CVTOC	FRESH WTR		09/05/13	09/05/13	L58657-1
WG128714-7	MS		CVTOC	FRESH WTR		09/05/13	09/05/13	L58657-1
WG128714-8	LD		CVTOC	EFFLUENT		09/05/13	09/05/13	L58598-1
WG128714-9	MS		CVTOC	EFFLUENT		09/05/13	09/05/13	L58598-1

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WG128714-10	LD		CVTOC	LEACHATE	09/05/13	09/05/13	L58623-4
WG128714-11	MS		CVTOC	LEACHATE	09/05/13	09/05/13	L58623-4
WG128714-12	MB		CVDOC	BLANK WTR	08/30/13	09/05/13	MB1 130830
WG128714-13	LCS		CVDOC	BLANK WTR	09/05/13	09/05/13	LEVEL1
WG128714-14	MB		CVDOC	BLANK WTR	09/04/13	09/05/13	MB1 130904
WG128714-15	MB		CVDOC	BLANK WTR	09/05/13	09/05/13	MB2 130905
WG128714-16	SB		CVDOC	BLANK WTR	09/05/13	09/05/13	WG128714-15
WG128714-17	LD		CVDOC	EFFLUENT	09/05/13	09/05/13	L58640-1
WG128714-18	MS		CVDOC	EFFLUENT	09/05/13	09/05/13	L58640-1
WG128714-19	MB		CVTOC	BLANK WTR	09/06/13	09/06/13	MB1 130906
WG128714-20	LCS		CVTOC	BLANK WTR	09/06/13	09/06/13	LEVEL1
WG128714-21	SB		CVTOC	BLANK WTR	09/06/13	09/06/13	WG128714-19
WG128714-22	MB		CVDOC	BLANK WTR	09/05/13	09/06/13	MB1 130905
WG128714-23	LCS		CVDOC	BLANK WTR	09/06/13	09/06/13	LEVEL1
WG128714-24	SB		CVDOC	BLANK WTR	09/05/13	09/06/13	WG128714-22
WG128714-25	LD		CVDOC	FRESH WTR	09/05/13	09/06/13	L58657-1
WG128714-26	MS		CVDOC	FRESH WTR	09/05/13	09/06/13	L58657-1
WG128714-27	LD		CVTOC	GRND WTR	09/06/13	09/06/13	L58306-1
WG128714-28	MS		CVTOC	GRND WTR	09/06/13	09/06/13	L58306-1

WG128850 (TOC,DOC) Department: 3 - Conventionals Move Date: 2013-09-18 13:14:16

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58638-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/09/13	09/13/13	09/13/13	
L58642-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/10/13	09/13/13	09/13/13	
L58644-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/09/13	09/13/13	09/13/13	
L58644-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/10/13	09/13/13	09/13/13	
L58644-4	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/12/13	09/13/13	09/13/13	
L58645-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/09/13	09/13/13	09/13/13	
L58645-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/11/13	09/13/13	09/13/13	
L58647-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/11/13	09/13/13	09/13/13	
L58647-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/11/13	09/13/13	09/13/13	
L58648-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTOC	GRND WTR	09/12/13	09/13/13	09/13/13	
L58649-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/12/13	09/13/13	09/13/13	
L58649-3	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/12/13	09/13/13	09/13/13	
L58651-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/13/13	09/13/13	09/13/13	
L58688-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/10/13	09/11/13	09/13/13	SAMP
L58688-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/10/13	09/13/13	09/13/13	SAMP
L58688-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/10/13	09/11/13	09/13/13	SAMP
L58688-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/10/13	09/13/13	09/13/13	SAMP
L58688-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/10/13	09/11/13	09/13/13	FREP

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L58688-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/10/13	09/13/13	09/13/13	FREP
L58708-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/10/13	09/12/13	09/13/13	SAMP
L58708-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/10/13	09/13/13	09/13/13	SAMP
WG128850-1	MB		CVTOC	BLANK WTR		09/13/13	09/13/13	MB1 130913
WG128850-2	LCS		CVTOC	BLANK WTR		09/13/13	09/13/13	LEVEL1
WG128850-3	SB		CVTOC	BLANK WTR		09/13/13	09/13/13	WG128850-1
WG128850-4	LD		CVTOC	GRND WTR		09/13/13	09/13/13	L58645-3
WG128850-5	MS		CVTOC	GRND WTR		09/13/13	09/13/13	L58645-3
WG128850-6	LD		CVTOC	FRESH WTR		09/13/13	09/13/13	L58688-2
WG128850-7	MS		CVTOC	FRESH WTR		09/13/13	09/13/13	L58688-2
WG128850-8	MB		CVDOC	BLANK WTR		09/11/13	09/13/13	MB1 130911
WG128850-9	LCS		CVDOC	BLANK WTR		09/13/13	09/13/13	LEVEL1
WG128850-10	MB		CVDOC	BLANK WTR		09/12/13	09/13/13	MB1 130912
WG128850-11	SB		CVDOC	BLANK WTR		09/12/13	09/13/13	WG128850-10
WG128850-12	LD		CVDOC	FRESH WTR		09/12/13	09/13/13	L58708-1
WG128850-13	MS		CVDOC	FRESH WTR		09/12/13	09/13/13	L58708-1

WG129096 (toc/doc) Department: 3 - Conventionals Move Date: 2013-10-25 11:08:15

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58593-1	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	09/16/13	09/17/13	09/26/13	
L58593-1	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	09/16/13	09/26/13	09/26/13	
L58593-2	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	09/16/13	09/17/13	09/26/13	
L58593-2	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	09/16/13	09/25/13	09/25/13	
L58593-3	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	09/16/13	09/17/13	09/26/13	
L58593-3	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	09/16/13	09/25/13	09/25/13	
L58594-1	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	09/16/13	09/17/13	09/26/13	
L58594-1	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	09/16/13	09/25/13	09/25/13	
L58594-2	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	09/16/13	09/17/13	09/26/13	
L58594-2	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	09/16/13	09/25/13	09/25/13	
L58594-3	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	09/16/13	09/17/13	09/26/13	
L58594-3	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	09/16/13	09/25/13	09/25/13	
L58791-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	09/19/13	09/20/13	09/26/13	SAMP
L58795-1	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	09/19/13	09/20/13	09/26/13	
L58795-2	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	09/19/13	09/20/13	09/26/13	
L58795-3	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	09/19/13	09/20/13	09/26/13	
WG129096-1	MB		CVTOC	BLANK WTR		09/25/13	09/25/13	MB2 130925
WG129096-2	LCS		CVTOC	BLANK WTR		09/25/13	09/25/13	LEVEL1
WG129096-3	SB		CVTOC	BLANK WTR		09/25/13	09/25/13	WG129096-1
WG129096-4	MS		CVTOC	SALT WTR		09/25/13	09/25/13	L58594-1
WG129096-5	MB		CVTOC	BLANK WTR		09/26/13	09/26/13	MB1 130926

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WG129096-6	LD		CVTOC	FRESH WTR	09/26/13	09/26/13	L58593-1
WG129096-7	LCS		CVTOC	BLANK WTR	09/26/13	09/26/13	LEVEL1
WG129096-8	MB		CVDOC	BLANK WTR	09/20/13	09/26/13	MB1 130920
WG129096-9	SB		CVDOC	BLANK WTR	09/20/13	09/26/13	WG129096-8
WG129096-10	LD		CVDOC	SEWER WTR	09/20/13	09/26/13	L58795-1
WG129096-11	MS		CVDOC	SEWER WTR	09/20/13	09/26/13	L58795-1
WG129096-12	LCS		CVDOC	BLANK WTR	09/26/13	09/26/13	LEVEL1
WG129096-13	MB		CVDOC	BLANK WTR	09/17/13	09/26/13	MB1 130917
WG129096-14	LD		CVDOC	FRESH WTR	09/17/13	09/26/13	L58593-2
WG129096-15	MS		CVDOC	SALT WTR	09/17/13	09/26/13	L58594-2

WG129092 (toc) Department: 3 - Conventional Move Date: 2013-10-02 12:54:12

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58232-3	421422-CHSW-A5-TD	SWD-CHSW - A5 TD Cedar Hills Surface Area 5 Top Deck	CVTOC	FRESH WTR	09/23/13	09/25/13	09/25/13	
L58232-4	421422-CHSW-A5-TD	SWD-CHSW - A5 TD Cedar Hills Surface Area 5 Top Deck	CVTOC	FRESH WTR	09/23/13	09/24/13	09/24/13	
L58466-1	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	09/24/13	09/25/13	09/25/13	
L58466-2	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	09/25/13	09/25/13	09/25/13	
L58635-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/23/13	09/24/13	09/24/13	
L58651-3	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/17/13	09/25/13	09/25/13	
L58687-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/16/13	09/24/13	09/24/13	
L58687-3	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTOC	GRND WTR	09/16/13	09/24/13	09/24/13	
L58689-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/19/13	09/24/13	09/24/13	
L58689-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/24/13	09/24/13	09/24/13	
L58693-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/24/13	09/24/13	09/24/13	
L58693-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/20/13	09/24/13	09/24/13	
L58693-4	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/20/13	09/24/13	09/24/13	
L58693-5	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/23/13	09/24/13	09/24/13	
L58702-1	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTOC	FRESH WTR	09/18/13	09/24/13	09/24/13	
L58702-3	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTOC	FRESH WTR	09/18/13	09/24/13	09/24/13	
L58702-4	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTOC	FRESH WTR	09/18/13	09/24/13	09/24/13	
L58703-1	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	09/24/13	09/24/13	09/24/13	
L58703-2	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	09/24/13	09/24/13	09/24/13	
L58703-4	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	09/24/13	09/25/13	09/25/13	
L58703-7	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	09/25/13	09/25/13	09/25/13	
L58703-9	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	09/25/13	09/25/13	09/25/13	
L58703-10	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	09/25/13	09/25/13	09/25/13	
L58762-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/17/13	09/24/13	09/24/13	
L58791-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	09/19/13	09/24/13	09/24/13	SAMP
L58795-1	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	09/19/13	09/25/13	09/25/13	
L58795-2	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	09/19/13	09/25/13	09/25/13	

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L58795-3	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	09/19/13	09/25/13	09/25/13	
L58815-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTOC	GRND WTR	09/24/13	09/24/13	09/24/13	
WG129092-1	MB		CVTOC	BLANK WTR		09/24/13	09/24/13	MB1 130924
WG129092-2	LCS		CVTOC	BLANK WTR		09/24/13	09/24/13	LEVEL1
WG129092-3	SB		CVTOC	BLANK WTR		09/24/13	09/24/13	WG129092-1
WG129092-4	MB		CVTOC	BLANK WTR		09/24/13	09/24/13	MB2 130924
WG129092-5	LCS		CVTOC	BLANK WTR		09/24/13	09/24/13	LEVEL1
WG129092-6	SB		CVTOC	BLANK WTR		09/24/13	09/24/13	WG129092-4
WG129092-7	MB		CVTOC	BLANK WTR		09/25/13	09/25/13	MB1 130925
WG129092-8	LCS		CVTOC	BLANK WTR		09/25/13	09/25/13	LEVEL1
WG129092-9	SB		CVTOC	BLANK WTR		09/25/13	09/25/13	WG129092-7
WG129092-10	LD		CVTOC	GRND WTR		09/25/13	09/25/13	L58651-3
WG129092-11	MS		CVTOC	GRND WTR		09/25/13	09/25/13	L58651-3
WG129092-12	LD		CVTOC	FRESH WTR		09/25/13	09/25/13	L58232-3
WG129092-13	MS		CVTOC	FRESH WTR		09/25/13	09/25/13	L58232-3
WG129092-14	LD		CVTOC	SEWER WTR		09/25/13	09/25/13	L58795-2
WG129092-15	MS		CVTOC	SEWER WTR		09/25/13	09/25/13	L58795-2

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WG129192 (toc,doc) Department: 3 - Conventionals Move Date: 2013-10-11 09:28:22

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58466-3	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTOC	FRESH WTR	9/30/2013	10/2/2013	10/2/2013	
L58636-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	9/27/2013	10/2/2013	10/2/2013	
L58636-3	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	9/27/2013	10/2/2013	10/2/2013	
L58826-1	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	9/25/2013	9/27/2013	10/2/2013	
L58826-1	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	9/25/2013	10/2/2013	10/2/2013	
L58826-2	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	9/25/2013	9/27/2013	10/2/2013	
L58826-2	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	9/25/2013	10/2/2013	10/2/2013	
L58826-3	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	9/25/2013	9/27/2013	10/2/2013	
L58826-3	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	9/25/2013	10/4/2013	10/4/2013	
L58842-1	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	10/2/2013	10/3/2013	10/3/2013	
L58842-3	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	10/2/2013	10/2/2013	10/2/2013	
L58842-4	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	10/2/2013	10/2/2013	10/2/2013	
L58842-5	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	10/2/2013	10/2/2013	10/2/2013	
L58855-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/3/2013	10/3/2013	10/3/2013	
L58855-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/3/2013	10/3/2013	10/3/2013	
L58861-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	10/1/2013	10/2/2013	10/3/2013	SAMP
L58861-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	10/1/2013	10/2/2013	10/2/2013	SAMP
L58861-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	10/1/2013	10/2/2013	10/3/2013	SAMP
L58861-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	10/1/2013	10/2/2013	10/2/2013	SAMP
L58861-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	10/1/2013	10/2/2013	10/3/2013	FREP
L58861-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	10/1/2013	10/2/2013	10/2/2013	FREP
WG129192-1	MB		CVTOC	BLANK WTR		10/2/2013	10/2/2013	MB1 131002
WG129192-2	LCS		CVTOC	BLANK WTR		10/2/2013	10/2/2013	LEVEL1
WG129192-3	SB		CVTOC	BLANK WTR		10/2/2013	10/2/2013	WG129192-1
WG129192-4	LD		CVTOC	GRND WTR		10/2/2013	10/2/2013	L58636-1
WG129192-5	MS		CVTOC	GRND WTR		10/2/2013	10/2/2013	L58636-1
WG129192-6	LD		CVTOC	STORM WTR		10/2/2013	10/2/2013	L58861-3
WG129192-7	MS		CVTOC	STORM WTR		10/2/2013	10/2/2013	L58861-3
WG129192-8	LD		CVTOC	FRESH WTR		10/2/2013	10/2/2013	L58466-3
WG129192-9	MS		CVTOC	FRESH WTR		10/2/2013	10/2/2013	L58466-3
WG129192-10	MB		CVDOC	BLANK WTR		9/27/2013	10/2/2013	MB1 130927
WG129192-11	LCS		CVDOC	BLANK WTR		10/2/2013	10/2/2013	LEVEL1
WG129192-12	SB		CVDOC	BLANK WTR		9/27/2013	10/2/2013	WG129192-10
WG129192-13	LD		CVDOC	SEWER WTR		9/27/2013	10/2/2013	L58826-1
WG129192-14	MS		CVDOC	SEWER WTR		9/27/2013	10/2/2013	L58826-1
WG129192-15	MB		CVTOC	BLANK WTR		10/2/2013	10/2/2013	MB2 131002
WG129192-16	LCS		CVTOC	BLANK WTR		10/2/2013	10/2/2013	LEVEL1
WG129192-17	LD		CVTOC	LEACHATE		10/2/2013	10/2/2013	L58842-3

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WG129192-18	MS		CVTOC	LEACHATE	10/2/2013	10/2/2013	L58842-3
WG129192-19	MB		CVDOC	BLANK WTR	10/2/2013	10/3/2013	MB1 131002
WG129192-20	LCS		CVDOC	BLANK WTR	10/3/2013	10/3/2013	LEVEL1
WG129192-21	SB		CVDOC	BLANK WTR	10/2/2013	10/3/2013	WG129192-19
WG129192-22	LD		CVDOC	STORM WTR	10/2/2013	10/3/2013	L58861-2
WG129192-23	MS		CVDOC	STORM WTR	10/2/2013	10/3/2013	L58861-2
WG129192-24	MB		CVTOC	BLANK WTR	10/3/2013	10/3/2013	MB1 131003
WG129192-25	LCS		CVTOC	BLANK WTR	10/3/2013	10/3/2013	LEVEL1
WG129192-26	MB		CVTOC	BLANK WTR	10/3/2013	10/3/2013	MB2 131003
WG129192-27	LCS		CVTOC	BLANK WTR	10/3/2013	10/3/2013	LEVEL1
WG129192-28	SB		CVTOC	BLANK WTR	10/3/2013	10/3/2013	WG129192-26
WG129192-29	MS		CVTOC	GRND WTR	10/3/2013	10/3/2013	L58855-1
WG129192-30	LD		CVTOC	GRND WTR	10/3/2013	10/3/2013	L58855-1
WG129192-31	MB		CVTOC	BLANK WTR	10/4/2013	10/4/2013	MB1 131004
WG129192-32	LCS		CVTOC	BLANK WTR	10/4/2013	10/4/2013	LEVEL1
WG129192-33	SB		CVTOC	BLANK WTR	10/4/2013	10/4/2013	WG129192-31
WG129192-34	LD		CVTOC	SEWER WTR	10/4/2013	10/4/2013	L58826-3
WG129192-35	MS		CVTOC	SEWER WTR	10/4/2013	10/4/2013	L58826-3

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Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58758-1	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	10/21/2013	10/22/2013	10/25/2013	
L58758-1	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	10/21/2013	10/23/2013	10/23/2013	
L58758-2	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	10/21/2013	10/22/2013	10/25/2013	
L58758-2	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	10/21/2013	10/23/2013	10/23/2013	
L58758-3	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	10/21/2013	10/22/2013	10/25/2013	
L58758-3	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	10/21/2013	10/23/2013	10/23/2013	
L58759-1	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	10/21/2013	10/22/2013	10/25/2013	
L58759-1	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	10/21/2013	10/23/2013	10/23/2013	
L58759-2	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	10/21/2013	10/22/2013	10/25/2013	
L58759-2	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	10/21/2013	10/23/2013	10/23/2013	
L58759-3	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	10/21/2013	10/22/2013	10/25/2013	
L58759-3	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	10/21/2013	10/23/2013	10/23/2013	
L58856-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/17/2013	10/23/2013	10/23/2013	
L58856-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/17/2013	10/23/2013	10/23/2013	
L58897-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/24/2013	10/24/2013	10/24/2013	
L58899-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/17/2013	10/23/2013	10/23/2013	
L58899-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/16/2013	10/23/2013	10/23/2013	
L58899-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/17/2013	10/23/2013	10/23/2013	

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L58899-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/16/2013	10/23/2013	10/23/2013
L58901-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/22/2013	10/23/2013	10/23/2013
L58901-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/18/2013	10/23/2013	10/23/2013
L58901-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/18/2013	10/23/2013	10/23/2013
L58901-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/18/2013	10/24/2013	10/24/2013
L58902-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/18/2013	10/23/2013	10/23/2013
L58905-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/21/2013	10/23/2013	10/23/2013
L58905-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/24/2013	10/24/2013	10/24/2013
L58905-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/22/2013	10/23/2013	10/23/2013
L58905-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/22/2013	10/23/2013	10/23/2013
L58948-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/22/2013	10/23/2013	10/23/2013
L58948-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/24/2013	10/24/2013	10/24/2013
L58948-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/24/2013	10/24/2013	10/24/2013
L58949-1	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	10/23/2013	10/23/2013	10/23/2013
L58949-2	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	10/23/2013	10/23/2013	10/23/2013
L58949-3	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	10/23/2013	10/23/2013	10/23/2013
L58949-4	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	10/23/2013	10/23/2013	10/23/2013
L58949-5	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	10/23/2013	10/23/2013	10/23/2013
L58949-6	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	10/23/2013	10/23/2013	10/23/2013
L58949-7	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	10/23/2013	10/23/2013	10/23/2013
L58949-8	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	10/23/2013	10/23/2013	10/23/2013
L58949-9	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	10/24/2013	10/25/2013	10/25/2013
L58949-10	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	10/23/2013	10/23/2013	10/23/2013
L58949-11	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTOC	FRESH WTR	10/23/2013	10/23/2013	10/23/2013
L58951-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/25/2013	10/25/2013	10/25/2013
L58952-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/25/2013	10/25/2013	10/25/2013
L58952-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/25/2013	10/25/2013	10/25/2013
L58952-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	10/25/2013	10/25/2013	10/25/2013
L58976-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	10/17/2013	10/18/2013	10/25/2013 SAMP
L58976-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	10/17/2013	10/23/2013	10/23/2013 SAMP
L58976-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	FRESH WTR	10/17/2013	10/18/2013	10/25/2013 SAMP
L58976-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	FRESH WTR	10/17/2013	10/23/2013	10/23/2013 SAMP
L58993-1	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	10/21/2013	10/23/2013	10/25/2013
L58993-1	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	10/21/2013	10/25/2013	10/25/2013
L58993-2	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	10/21/2013	10/23/2013	10/25/2013
L58993-2	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	10/21/2013	10/25/2013	10/25/2013
L58993-3	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	10/21/2013	10/23/2013	10/25/2013
L58993-3	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	10/21/2013	10/25/2013	10/25/2013
L59024-1	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	10/22/2013	10/23/2013	10/25/2013
L59024-1	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	10/22/2013	10/25/2013	10/25/2013
L59024-2	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	10/22/2013	10/23/2013	10/25/2013

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L59024-2	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	10/22/2013	10/25/2013	10/25/2013
L59024-3	423589-320-4	CSO Basin Study	CVDOC	SEWER WTR	10/22/2013	10/23/2013	10/25/2013
L59024-3	423589-320-4	CSO Basin Study	CVTOC	SEWER WTR	10/22/2013	10/25/2013	10/25/2013
WG129586-1	MB		CVTOC	BLANK WTR		10/23/2013	10/23/2013 MB1 131023
WG129586-2	LCS		CVTOC	BLANK WTR		10/23/2013	10/23/2013 LEVEL1
WG129586-3	SB		CVTOC	BLANK WTR		10/23/2013	10/23/2013 WG129586-1
WG129586-4	LD		CVTOC	GRND WTR		10/23/2013	10/23/2013 L58899-6
WG129586-5	MS		CVTOC	GRND WTR		10/23/2013	10/23/2013 L58899-6
WG129586-6	MB		CVTOC	BLANK WTR		10/23/2013	10/23/2013 MB2 131023
WG129586-7	LCS		CVTOC	BLANK WTR		10/23/2013	10/23/2013 LEVEL1
WG129586-8	SB		CVTOC	BLANK WTR		10/23/2013	10/23/2013 WG129586-6
WG129586-9	LD		CVTOC	FRESH WTR		10/23/2013	10/23/2013 L58949-8
WG129586-10	MS		CVTOC	FRESH WTR		10/23/2013	10/23/2013 L58949-8
WG129586-11	MB		CVTOC	BLANK WTR		10/24/2013	10/24/2013 MB1 131024
WG129586-12	LCS		CVTOC	BLANK WTR		10/24/2013	10/24/2013 LEVEL1
WG129586-13	SB		CVTOC	BLANK WTR		10/24/2013	10/24/2013 WG129586-11
WG129586-14	MB		CVTOC	BLANK WTR		10/25/2013	10/25/2013 MB1 131025
WG129586-15	LCS		CVTOC	BLANK WTR		10/25/2013	10/25/2013 LEVEL1
WG129586-16	SB		CVTOC	BLANK WTR		10/25/2013	10/25/2013 WG129586-14
WG129586-17	LCS		CVDOC	BLANK WTR		10/25/2013	10/25/2013 LEVEL1
WG129586-18	SB		CVDOC	BLANK WTR		10/18/2013	10/25/2013 WG129586-19
WG129586-19	MB		CVDOC	BLANK WTR		10/18/2013	10/25/2013 MB1 131018
WG129586-20	MB		CVDOC	BLANK WTR		10/23/2013	10/25/2013 MB1 131023
WG129586-21	LD		CVDOC	SEWER WTR		10/23/2013	10/25/2013 L58993-3
WG129586-22	MS		CVDOC	SEWER WTR		10/23/2013	10/25/2013 L58993-3
WG129586-23	LD		CVTOC	SEWER WTR		10/25/2013	10/25/2013 L59024-1
WG129586-24	MS		CVTOC	SEWER WTR		10/25/2013	10/25/2013 L59024-1
WG129586-25	MB		CVTOC	BLANK WTR		10/25/2013	10/25/2013 MB2 131025
WG129586-26	LCS		CVTOC	BLANK WTR		10/25/2013	10/25/2013 LEVEL1
WG129586-27	LD		CVTOC	GRND WTR		10/25/2013	10/25/2013 L58951-6
WG129586-28	MS		CVTOC	GRND WTR		10/25/2013	10/25/2013 L58951-6
WG129586-29	MS		CVTOC	FRESH WTR		10/23/2013	10/23/2013 L58758-1
WG129586-30	LD		CVTOC	SALT WTR		10/23/2013	10/23/2013 L58759-3
WG129586-31	LD		CVDOC	FRESH WTR		10/18/2013	10/25/2013 L58976-2
WG129586-32	MS		CVDOC	FRESH WTR		10/18/2013	10/25/2013 L58976-2
WG129586-33	MB		CVDOC	BLANK WTR		10/22/2013	10/25/2013 MB1 131022
WG129586-34	MS		CVDOC	FRESH WTR		10/22/2013	10/25/2013 L58758-2
WG129586-35	LD		CVDOC	SALT WTR		10/22/2013	10/25/2013 L58759-1

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Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59104-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	11/8/2013	11/8/2013	11/8/2013	
L59105-1	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	11/8/2013	11/8/2013	11/8/2013	
L59105-3	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	11/8/2013	11/8/2013	11/8/2013	
L59148-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/7/2013	11/8/2013	11/8/2013	SAMP
L59148-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/7/2013	11/8/2013	11/8/2013	SAMP
L59148-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/7/2013	11/8/2013	11/8/2013	SAMP
L59148-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/7/2013	11/8/2013	11/8/2013	SAMP
L59148-3	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/7/2013	11/8/2013	11/8/2013	FREP
L59148-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/7/2013	11/8/2013	11/8/2013	FREP
L59149-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/6/2013	11/8/2013	11/8/2013	Samp
L59149-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/6/2013	11/8/2013	11/8/2013	Samp
L59155-1	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	11/6/2013	11/8/2013	11/8/2013	
L59155-1	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	11/6/2013	11/8/2013	11/8/2013	
L59155-3	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	11/6/2013	11/8/2013	11/8/2013	
L59155-3	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	11/6/2013	11/8/2013	11/8/2013	
WG129830-1	MB		CVTOC	BLANK WTR		11/8/2013	11/8/2013	MB1 131108
WG129830-2	LCS		CVTOC	BLANK WTR		11/8/2013	11/8/2013	LEVEL1
WG129830-3	SB		CVTOC	BLANK WTR		11/8/2013	11/8/2013	WG129830-1
WG129830-4	LD		CVTOC	STORM WTR		11/8/2013	11/8/2013	L59148-3
WG129830-5	MS		CVTOC	STORM WTR		11/8/2013	11/8/2013	L59148-3
WG129830-6	MB		CVDOC	BLANK WTR		11/8/2013	11/8/2013	MB1 131108
WG129830-7	LCS		CVDOC	BLANK WTR		11/8/2013	11/8/2013	LEVEL1
WG129830-8	SB		CVDOC	BLANK WTR		11/8/2013	11/8/2013	WG129830-6
WG129830-9	LD		CVDOC	STORM WTR		11/8/2013	11/8/2013	L59148-2
WG129830-10	MS		CVDOC	STORM WTR		11/8/2013	11/8/2013	L59148-2
WG129830-11	MB		CVDOC	BLANK WTR		11/8/2013	11/8/2013	MB2 131108
WG129830-12	MB		CVDOC	BLANK WTR		11/8/2013	11/8/2013	MB3 131108
WG129830-13	LD		CVTOC	GRND WTR		11/8/2013	11/8/2013	L59105-1
WG129830-14	MS		CVTOC	GRND WTR		11/8/2013	11/8/2013	L59105-1

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Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59132-1	421422-CFGW	SWD-CFGW Cedar Falls Groundwater Quarterly	CVTOC	GRND WTR	11/19/2013	11/20/2013	11/20/2013	
L59132-3	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	11/20/2013	11/20/2013	11/20/2013	
L59134-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	11/19/2013	11/20/2013	11/20/2013	
L59138-3	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	11/19/2013	11/20/2013	11/20/2013	
L59141-1	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	11/18/2013	11/19/2013	11/21/2013	

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L59141-1	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	11/18/2013	11/21/2013	11/21/2013
L59141-2	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	11/18/2013	11/19/2013	11/21/2013
L59141-2	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	11/18/2013	11/21/2013	11/21/2013
L59141-3	421250ON	Ambient Offshore Water Column-North	CVDOC	FRESH WTR	11/18/2013	11/19/2013	11/21/2013
L59141-3	421250ON	Ambient Offshore Water Column-North	CVTOC	FRESH WTR	11/18/2013	11/21/2013	11/21/2013
L59142-1	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	11/18/2013	11/19/2013	11/21/2013
L59142-1	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	11/18/2013	11/21/2013	11/21/2013
L59142-2	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	11/18/2013	11/19/2013	11/21/2013
L59142-2	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	11/18/2013	11/21/2013	11/21/2013
L59142-3	421250ON	Ambient Offshore Water Column-North	CVDOC	SALT WTR	11/18/2013	11/19/2013	11/21/2013
L59142-3	421250ON	Ambient Offshore Water Column-North	CVTOC	SALT WTR	11/18/2013	11/21/2013	11/21/2013
L59184-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	11/20/2013	11/20/2013	11/20/2013
L59184-3	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	11/21/2013	11/21/2013	11/21/2013
L59187-1	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	11/21/2013	11/21/2013	11/21/2013
L59193-4	421422-HOGW	SWD-HOGW Hobart Groundwater Quarterly	CVTOC	GRND WTR	11/21/2013	11/21/2013	11/21/2013
L59239-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/18/2013	11/20/2013	11/21/2013 SAMP
L59239-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/18/2013	11/21/2013	11/21/2013 SAMP
L59240-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/19/2013	11/20/2013	11/21/2013 SAMP
L59240-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59240-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	11/19/2013	11/20/2013	11/21/2013 SAMP
L59240-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59241-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	11/19/2013	11/21/2013	11/21/2013 SAMP
L59250-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	11/20/2013	11/20/2013	11/20/2013
WG130020-1	MB		CVTOC	BLANK WTR		11/20/2013	11/20/2013 MB1 131120
WG130020-2	LCS		CVTOC	BLANK WTR		11/20/2013	11/20/2013 LEVEL1
WG130020-3	SB		CVTOC	BLANK WTR		11/20/2013	11/20/2013 WG130020-1
WG130020-4	LD		CVTOC	GRND WTR		11/20/2013	11/20/2013 L59132-3
WG130020-5	MS		CVTOC	GRND WTR		11/20/2013	11/20/2013 L59132-3
WG130020-6	MB		CVTOC	BLANK WTR		11/21/2013	11/21/2013 MB1 131121
WG130020-7	LCS		CVTOC	BLANK WTR		11/21/2013	11/21/2013 LEVEL1
WG130020-8	SB		CVTOC	BLANK WTR		11/21/2013	11/21/2013 WG130020-6
WG130020-9	MB		CVDOC	BLANK WTR		11/20/2013	11/21/2013 MB1 131120
WG130020-10	LCS		CVDOC	BLANK WTR		11/21/2013	11/21/2013 LEVEL1
WG130020-11	SB		CVDOC	BLANK WTR		11/20/2013	11/21/2013 WG130020-9
WG130020-12	LD		CVDOC	STORM WTR		11/20/2013	11/21/2013 L59240-1
WG130020-13	MS		CVDOC	STORM WTR		11/20/2013	11/21/2013 L59240-1
WG130020-14	LD		CVTOC	FRESH WTR		11/21/2013	11/21/2013 L59141-1
WG130020-15	MS		CVTOC	SALT WTR		11/21/2013	11/21/2013 L59142-3

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WG130020-16	MB		CVDOC	BLANK WTR	11/19/2013	11/21/2013	MB1 131119
WG130020-17	LD		CVDOC	FRESH WTR	11/19/2013	11/21/2013	L59141-2
WG130020-18	MS		CVDOC	SALT WTR	11/19/2013	11/21/2013	L59142-2
WG130020-19	MB		CVTOC	BLANK WTR	11/21/2013	11/21/2013	MB2 131121
WG130020-20	LCS		CVTOC	BLANK WTR	11/21/2013	11/21/2013	LEVEL1
WG130020-21	LD		CVTOC	GRND WTR	11/21/2013	11/21/2013	L59187-1
WG130020-22	MS		CVTOC	GRND WTR	11/21/2013	11/21/2013	L59187-1
WG130020-23	LD		CVTOC	STORM WTR	11/21/2013	11/21/2013	L59241-3
WG130020-24	MS		CVTOC	STORM WTR	11/21/2013	11/21/2013	L59241-3

WG130703 (TOC, DOC/421422, 423589) Department: 3 - Convenctionals Move Date: 2014-01-22 09:35:59

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59293-3	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/13/2014	1/14/2014	1/14/2014	
L59420-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/6/2014	1/14/2014	1/14/2014	
L59420-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/7/2014	1/14/2014	1/14/2014	
L59420-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/6/2014	1/14/2014	1/14/2014	
L59420-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/7/2014	1/14/2014	1/14/2014	
L59422-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/7/2014	1/14/2014	1/14/2014	
L59422-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/10/2014	1/14/2014	1/14/2014	
L59422-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/7/2014	1/14/2014	1/14/2014	
L59422-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/10/2014	1/14/2014	1/14/2014	
L59424-1	421422-VALS-M	SWD-VALS-M Vashon Leachate Monthly	CVTOC	LEACHATE	1/8/2014	1/16/2014	1/16/2014	
L59424-3	421422-VALS-M	SWD-VALS-M Vashon Leachate Monthly	CVTOC	LEACHATE	1/8/2014	1/16/2014	1/16/2014	
L59425-1	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	1/8/2014	1/16/2014	1/16/2014	
L59425-3	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	1/8/2014	1/16/2014	1/16/2014	
L59425-4	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	1/8/2014	1/16/2014	1/16/2014	
L59425-5	421422-CHLS-M	SWD-CHLS-M Cedar Hills Leachate Monthly	CVTOC	LEACHATE	1/8/2014	1/16/2014	1/16/2014	
L59435-1	421422-CHGW-NP	SWD-CHGW-NP Cedar Hills Groundwater Non-Potable	CVTOC	GRND WTR	1/9/2014	1/14/2014	1/14/2014	
L59437-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/10/2014	1/14/2014	1/14/2014	
L59437-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/9/2014	1/14/2014	1/14/2014	
L59437-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/10/2014	1/14/2014	1/14/2014	
L59437-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/10/2014	1/14/2014	1/14/2014	
L59439-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/13/2014	1/14/2014	1/14/2014	
L59439-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/13/2014	1/14/2014	1/14/2014	
L59439-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/13/2014	1/14/2014	1/14/2014	
L59439-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/13/2014	1/14/2014	1/14/2014	
L59440-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/6/2014	1/14/2014	1/14/2014	
L59470-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	1/8/2014	1/10/2014	1/15/2014	SAMP
L59470-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	1/8/2014	1/14/2014	1/14/2014	SAMP

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L59470-2	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	1/8/2014	1/10/2014	1/15/2014	FREP@L59470-1
L59470-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	1/8/2014	1/14/2014	1/14/2014	FREP@L59470-1
L59471-1	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	1/8/2014	1/10/2014	1/15/2014	
L59471-1	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	1/8/2014	1/15/2014	1/15/2014	
L59471-2	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	1/8/2014	1/10/2014	1/15/2014	
L59471-2	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	1/8/2014	1/15/2014	1/15/2014	
L59471-3	423589-320-4	CSO Basin Study	CVDOC	STORM WTR	1/8/2014	1/10/2014	1/15/2014	
L59471-3	423589-320-4	CSO Basin Study	CVTOC	STORM WTR	1/8/2014	1/15/2014	1/15/2014	
L59480-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/15/2014	1/15/2014	1/15/2014	
L59480-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/14/2014	1/14/2014	1/14/2014	
L59480-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/14/2014	1/14/2014	1/14/2014	
L59481-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/14/2014	1/14/2014	1/14/2014	
L59481-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/15/2014	1/15/2014	1/15/2014	
L59481-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/15/2014	1/15/2014	1/15/2014	
L59481-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/15/2014	1/15/2014	1/15/2014	
L59483-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/16/2014	1/16/2014	1/16/2014	
L59483-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/16/2014	1/16/2014	1/16/2014	
L59485-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/16/2014	1/16/2014	1/16/2014	
L59485-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/16/2014	1/16/2014	1/16/2014	
WG130703-1	MB		CVTOC	BLANK WTR		1/14/2014	1/14/2014	MB1 140114
WG130703-2	LCS		CVTOC	BLANK WTR		1/14/2014	1/14/2014	LEVEL1
WG130703-3	SB		CVTOC	BLANK WTR		1/14/2014	1/14/2014	WG130703-1
WG130703-4	LD		CVTOC	GRND WTR		1/14/2014	1/14/2014	L59422-6
WG130703-5	MS		CVTOC	GRND WTR		1/14/2014	1/14/2014	L59422-6
WG130703-6	MB		CVTOC	BLANK WTR		1/14/2014	1/14/2014	MB2 140114
WG130703-7	LCS		CVTOC	BLANK WTR		1/14/2014	1/14/2014	LEVEL1
WG130703-8	LD		CVTOC	GRND WTR		1/14/2014	1/14/2014	L59481-1
WG130703-9	MS		CVTOC	GRND WTR		1/14/2014	1/14/2014	L59481-1
WG130703-10	LD		CVTOC	STORM WTR		1/14/2014	1/14/2014	L59470-2
WG130703-11	MS		CVTOC	STORM WTR		1/14/2014	1/14/2014	L59470-2
WG130703-12	MB		CVTOC	BLANK WTR		1/15/2014	1/15/2014	MB1 140115
WG130703-13	LCS		CVTOC	BLANK WTR		1/15/2014	1/15/2014	LEVEL1
WG130703-14	MB		CVDOC	BLANK WTR		1/10/2014	1/15/2014	MB1 140110
WG130703-15	SB		CVDOC	BLANK WTR		1/10/2014	1/15/2014	WG130703-14
WG130703-16	LCS		CVDOC	BLANK WTR		1/15/2014	1/15/2014	LEVEL1
WG130703-17	LD		CVDOC	STORM WTR		1/10/2014	1/15/2014	L59471-1
WG130703-18	MS		CVDOC	STORM WTR		1/10/2014	1/15/2014	L59471-1
WG130703-19	MB		CVTOC	BLANK WTR		1/16/2014	1/16/2014	MB1 140116
WG130703-20	LCS		CVTOC	BLANK WTR		1/16/2014	1/16/2014	LEVEL1
WG130703-21	SB		CVTOC	BLANK WTR		1/16/2014	1/16/2014	WG130703-19
WG130703-22	LD		CVTOC	LEACHATE		1/16/2014	1/16/2014	L59425-3

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WG130703-23 MS

CVTOC LEACHATE

1/16/2014 1/16/2014 L59425-3

WG131067 (TOC, DOC/421422, 423589-3) Department: 3 - Conventionals Move Date: 2014-02-14 09:33:39

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59492-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTOC	GRND WTR	1/31/2014	2/11/2014	2/11/2014	
L59532-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/3/2014	2/11/2014	2/11/2014	
L59532-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/3/2014	2/11/2014	2/11/2014	
L59533-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/3/2014	2/11/2014	2/11/2014	
L59533-5	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/4/2014	2/11/2014	2/11/2014	
L59535-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/4/2014	2/11/2014	2/11/2014	
L59535-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/5/2014	2/11/2014	2/11/2014	
L59535-4	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/5/2014	2/11/2014	2/11/2014	
L59535-5	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/10/2014	2/11/2014	2/11/2014	
L59595-1	423589-330-4	Green Rvr PCB/PAH Loading	CVDOC	STORM WTR	1/29/2014	1/30/2014	2/11/2014	SAMP
L59595-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTOC	STORM WTR	1/29/2014	2/11/2014	2/11/2014	SAMP
L59597-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/6/2014	2/11/2014	2/11/2014	
L59597-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/6/2014	2/11/2014	2/11/2014	
L59608-1	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	2/11/2014	2/11/2014	2/11/2014	
L59610-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/11/2014	2/11/2014	2/11/2014	
L59610-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTOC	GRND WTR	2/11/2014	2/11/2014	2/11/2014	
L59618-1	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	2/10/2014	2/11/2014	2/11/2014	
L59618-3	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTOC	GRND WTR	2/10/2014	2/11/2014	2/11/2014	
WG131067-1	MB		CVTOC	BLANK WTR		2/11/2014	2/11/2014	MB1 140211
WG131067-2	SB		CVTOC	BLANK WTR		2/11/2014	2/11/2014	WG131067-1
WG131067-3	LCS		CVTOC	BLANK WTR		2/11/2014	2/11/2014	LEVEL1
WG131067-4	LD		CVTOC	GRND WTR		2/11/2014	2/11/2014	L59492-6
WG131067-5	MS		CVTOC	GRND WTR		2/11/2014	2/11/2014	L59492-6
WG131067-6	LD		CVTOC	STORM WTR		2/11/2014	2/11/2014	L59595-1
WG131067-7	MS		CVTOC	STORM WTR		2/11/2014	2/11/2014	L59595-1
WG131067-8	MB		CVDOC	BLANK WTR		1/30/2014	2/11/2014	MB1 140130
WG131067-9	SB		CVDOC	BLANK WTR		1/30/2014	2/11/2014	WG131067-8
WG131067-10	LCS		CVDOC	BLANK WTR		2/11/2014	2/11/2014	LEVEL1
WG131067-11	LD		CVDOC	STORM WTR		1/30/2014	2/11/2014	L59595-1
WG131067-12	MS		CVDOC	STORM WTR		1/30/2014	2/11/2014	L59595-1

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WG126266 (tss for 423589) Department: 3 - Conventionals Move Date: 2013-04-11 13:48:54

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L57715-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	04/04/13	04/09/13	04/10/13	Sample
L57748-1	421797	Elliot West CSO Plant Solids Evaluation	CVTSS	STORM WTR	04/07/13	04/09/13	04/10/13	
L57748-2	421797	Elliot West CSO Plant Solids Evaluation	CVTSS	STORM WTR	04/07/13	04/09/13	04/10/13	
L57748-3	421797	Elliot West CSO Plant Solids Evaluation	CVTSS	STORM WTR	04/07/13	04/09/13	04/10/13	
L57748-4	421797	Elliot West CSO Plant Solids Evaluation	CVTSS	STORM WTR	04/07/13	04/09/13	04/10/13	
L57748-5	421797	Elliot West CSO Plant Solids Evaluation	CVTSS	STORM WTR	04/07/13	04/09/13	04/10/13	
L57748-6	421797	Elliot West CSO Plant Solids Evaluation	CVTSS	STORM WTR	04/07/13	04/09/13	04/10/13	
L57748-7	421797	Elliot West CSO Plant Solids Evaluation	CVTSS	STORM WTR	04/07/13	04/09/13	04/10/13	
L57748-8	421797	Elliot West CSO Plant Solids Evaluation	CVTSS	STORM WTR	04/07/13	04/09/13	04/10/13	
WG126266- MB			CVTSS	BLANK WTR		04/09/13	04/10/13	MB1 130409
WG126266- LCS			CVTSS	BLANK WTR		04/09/13	04/10/13	LEVEL1
WG126266- LD			CVTSS	STORM WTR		04/09/13	04/10/13	L57715-1

WG126335 (TSS FOR ASSORTED PROJECTS) Department: 3 - Conventionals Move Date: 2013-04-17 10:51:48

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L57175-1	421195-140	Lake Sawyer	CVTSS	STORM WTR	04/08/13	04/12/13	04/15/13	
L57175-2	421195-140	Lake Sawyer	CVTSS	STORM WTR	04/08/13	04/12/13	04/15/13	
L57175-3	421195-140	Lake Sawyer	CVTSS	STORM WTR	04/08/13	04/12/13	04/15/13	
L57175-4	421195-140	Lake Sawyer	CVTSS	STORM WTR	04/08/13	04/12/13	04/15/13	
L57175-5	421195-140	Lake Sawyer	CVTSS	STORM WTR	04/08/13	04/12/13	04/15/13	
L57175-6	421195-140	Lake Sawyer	CVTSS	STORM WTR	04/08/13	04/12/13	04/15/13	
L57175-7	421195-140	Lake Sawyer	CVTSS	STORM WTR	04/08/13	04/12/13	04/15/13	
L57550-3	421161	IW SURCHARGE	CVTSS	IW WTR	04/08/13	04/12/13	04/15/13	
L57550-4	421161	IW SURCHARGE	CVTSS	IW WTR	04/09/13	04/12/13	04/15/13	
L57550-5	421161	IW SURCHARGE	CVTSS	IW WTR	04/10/13	04/12/13	04/15/13	
L57675-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/09/13	04/12/13	04/15/13	
L57675-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/08/13	04/12/13	04/15/13	
L57675-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/08/13	04/12/13	04/15/13	
L57675-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/08/13	04/12/13	04/15/13	
L57675-7	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/08/13	04/12/13	04/15/13	
L57680-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/10/13	04/12/13	04/15/13	
L57680-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/10/13	04/12/13	04/15/13	
L57681-1	421422-CHGW-NP	SWD-CHGW-NP Cedar Hills Groundwater Non-Potable	CVTSS	GRND WTR	04/09/13	04/12/13	04/15/13	
L57682-1	421422-ENLS	SWD-ENLS Enumclaw Wastewater Permit	CVTSS	IW WTR	04/09/13	04/12/13	04/15/13	
L57682-2	421422-ENLS	SWD-ENLS Enumclaw Wastewater Permit	CVTSS	IW WTR	04/09/13	04/12/13	04/15/13	
L57683-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/09/13	04/12/13	04/15/13	
L57683-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/09/13	04/12/13	04/15/13	

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L57683-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/09/13	04/12/13	04/15/13	
L57686-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/11/13	04/12/13	04/15/13	
L57686-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/10/13	04/12/13	04/15/13	
L57686-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/11/13	04/12/13	04/15/13	
L57706-1	421161	IW SURCHARGE	CVTSS	IW WTR	04/08/13	04/12/13	04/15/13	
L57706-2	421161	IW SURCHARGE	CVTSS	IW WTR	04/09/13	04/12/13	04/15/13	
L57706-3	421161	IW SURCHARGE	CVTSS	IW WTR	04/10/13	04/12/13	04/15/13	
L57707-1	421161	IW SURCHARGE	CVTSS	IW WTR	04/08/13	04/12/13	04/15/13	
L57707-2	421161	IW SURCHARGE	CVTSS	IW WTR	04/09/13	04/12/13	04/15/13	
L57707-3	421161	IW SURCHARGE	CVTSS	IW WTR	04/10/13	04/12/13	04/15/13	
L57708-1	421161	IW SURCHARGE	CVTSS	IW WTR	04/09/13	04/12/13	04/15/13	
L57708-2	421161	IW SURCHARGE	CVTSS	IW WTR	04/10/13	04/12/13	04/15/13	
L57708-3	421161	IW SURCHARGE	CVTSS	IW WTR	04/11/13	04/12/13	04/15/13	
L57709-1	421161	IW SURCHARGE	CVTSS	IW WTR	04/08/13	04/12/13	04/15/13	
L57709-2	421161	IW SURCHARGE	CVTSS	IW WTR	04/09/13	04/12/13	04/15/13	
L57709-3	421161	IW SURCHARGE	CVTSS	IW WTR	04/10/13	04/12/13	04/15/13	
L57733-2	421161	IW SURCHARGE	CVTSS	IW WTR	04/09/13	04/12/13	04/15/13	
L57734-1	421161	IW SURCHARGE	CVTSS	IW WTR	04/11/13	04/12/13	04/15/13	
L57734-2	421161	IW SURCHARGE	CVTSS	IW WTR	04/11/13	04/12/13	04/15/13	
L57734-3	421161	IW SURCHARGE	CVTSS	IW WTR	04/11/13	04/12/13	04/15/13	
L57736-1	421161	IW SURCHARGE	CVTSS	IW WTR	04/10/13	04/12/13	04/15/13	
L57737-4	421161	IW SURCHARGE	CVTSS	IW WTR	04/08/13	04/12/13	04/15/13	
L57737-5	421161	IW SURCHARGE	CVTSS	IW WTR	04/09/13	04/12/13	04/15/13	
L57737-6	421161	IW SURCHARGE	CVTSS	IW WTR	04/10/13	04/12/13	04/15/13	
L57738-1	421161	IW SURCHARGE	CVTSS	IW WTR	04/08/13	04/12/13	04/15/13	
L57738-2	421161	IW SURCHARGE	CVTSS	IW WTR	04/09/13	04/12/13	04/15/13	
L57738-3	421161	IW SURCHARGE	CVTSS	IW WTR	04/10/13	04/12/13	04/15/13	
L57751-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	04/10/13	04/12/13	04/15/13	Sample
WG126335- MB			CVTSS	BLANK WTR		04/12/13	04/15/13	MB1 130412
WG126335- LCS			CVTSS	BLANK WTR		04/12/13	04/15/13	LEVEL1
WG126335- LD			CVTSS	STORM WTR		04/12/13	04/15/13	L57175-2
WG126335- LD			CVTSS	IW WTR		04/12/13	04/15/13	L57550-3
WG126335- LD			CVTSS	GRND WTR		04/12/13	04/15/13	L57675-2
WG126335- LD			CVTSS	IW WTR		04/12/13	04/15/13	L57682-2
WG126335- MB			CVTSS	BLANK WTR		04/12/13	04/15/13	MB2 130412
WG126335- LCS			CVTSS	BLANK WTR		04/12/13	04/15/13	LEVEL1
WG126335- MB			CVTSS	BLANK WTR		04/12/13	04/15/13	MB3 130412
WG126335- LCS			CVTSS	BLANK WTR		04/12/13	04/15/13	LEVEL1
WG126335- LD			CVTSS	IW WTR		04/12/13	04/15/13	L57733-2
WG126335- LD			CVTSS	STORM WTR		04/12/13	04/15/13	L57751-1

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WG126514 (tss for 421195/421874/421) Department: 3 - Conventional Water Sampling Move Date: 2013-04-26 10:27:02

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L57173-1	421195-140	Lake Sawyer	CVTSS	FRESH WTR	04/22/13	04/24/13	04/25/13	
L57173-2	421195-140	Lake Sawyer	CVTSS	FRESH WTR	04/22/13	04/24/13	04/25/13	
L57173-3	421195-140	Lake Sawyer	CVTSS	FRESH WTR	04/22/13	04/24/13	04/25/13	
L57629-1	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	04/23/13	04/24/13	04/25/13	
L57629-2	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	04/23/13	04/24/13	04/25/13	
L57629-3	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	04/23/13	04/24/13	04/25/13	
L57629-4	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	04/23/13	04/24/13	04/25/13	
L57629-5	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	04/23/13	04/24/13	04/25/13	
L57629-6	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	04/23/13	04/24/13	04/25/13	
L57629-7	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	04/23/13	04/24/13	04/25/13	
L57721-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/24/13	04/24/13	04/25/13	
L57725-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/22/13	04/24/13	04/25/13	
L57725-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/22/13	04/24/13	04/25/13	
L57725-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/23/13	04/24/13	04/25/13	
L57725-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/23/13	04/24/13	04/25/13	
L57753-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/23/13	04/24/13	04/25/13	
L57753-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	04/23/13	04/24/13	04/25/13	
L57772-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	04/18/13	04/24/13	04/25/13	SAMP
L57794-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	BLANK WTR	04/23/13	04/24/13	04/25/13	
WG126514- MB			CVTSS	BLANK WTR		04/24/13	04/25/13	MB1 130424
WG126514- LCS			CVTSS	BLANK WTR		04/24/13	04/25/13	LEVEL1
WG126514- LD			CVTSS	FRESH WTR		04/24/13	04/25/13	L57173-2
WG126514- LD			CVTSS	FRESH WTR		04/24/13	04/25/13	L57629-2
WG126514- LD			CVTSS	GRND WTR		04/24/13	04/25/13	L57725-2
WG126514- LD			CVTSS	STORM WTR		04/24/13	04/25/13	L57772-1

WG127813 (tss for 421422/421235/421) Department: 3 - Conventional Water Sampling Move Date: 2013-07-29 17:22:53

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58235-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	07/15/13	07/15/13	07/25/13	
L58235-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	07/15/13	07/15/13	07/25/13	
L58235-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	07/15/13	07/15/13	07/25/13	
L58246-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	07/10/13	07/15/13	07/25/13	SAMP
L58249-1	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-2	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-3	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-4	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-5	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	

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L58249-6	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-8	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-9	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-10	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-11	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-12	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-13	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-14	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-15	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-16	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-17	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-19	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-20	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-21	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-22	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-23	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-25	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-26	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-27	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-29	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-30	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-31	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-32	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
L58249-33	421235	MAJOR LAKES (wtr col)	CVTSS	FRESH WTR	07/09/13	07/15/13	07/25/13	
WG127813- MB			CVTSS	BLANK WTR	07/15/13	07/17/13		MB1 130715
WG127813- LCS			CVTSS	BLANK WTR	07/15/13	07/25/13		LEVEL1
WG127813- LD			CVTSS	GRND WTR	07/15/13	07/25/13		L58235-1
WG127813- LD			CVTSS	FRESH WTR	07/15/13	07/25/13		L58246-1
WG127813- LD			CVTSS	FRESH WTR	07/15/13	07/25/13		L58249-1
WG127813- MB			CVTSS	BLANK WTR	07/15/13	07/25/13		MB2 130715
WG127813- LCS			CVTSS	BLANK WTR	07/15/13	07/25/13		LEVEL1
WG127813- LD			CVTSS	FRESH WTR	07/15/13	07/25/13		L58249-21

WG128877 (tss for 421422/423589) Department: 3 - Conventionals Move Date: 2013-09-26 16:53:37

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58642-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/10/13	09/17/13	09/25/13	
L58644-3	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	09/10/13	09/17/13	09/25/13	
L58644-4	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/12/13	09/17/13	09/25/13	
L58645-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/11/13	09/17/13	09/25/13	
L58647-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/11/13	09/17/13	09/25/13	

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L58647-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/11/13	09/17/13	09/25/13	
L58648-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/12/13	09/17/13	09/25/13	
L58649-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/12/13	09/17/13	09/25/13	
L58649-3	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/12/13	09/17/13	09/25/13	
L58651-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/13/13	09/17/13	09/25/13	
L58651-3	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/17/13	09/17/13	09/25/13	
L58687-1	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/16/13	09/17/13	09/25/13	
L58687-3	421422-HTGW	SWD-HTGW Houghton Groundwater Quarterly	CVTSS	GRND WTR	09/16/13	09/17/13	09/25/13	
L58688-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/10/13	09/17/13	09/25/13	SAMP
L58688-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/10/13	09/17/13	09/25/13	SAMP
L58688-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/10/13	09/17/13	09/25/13	FREP
L58708-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/10/13	09/17/13	09/25/13	SAMP
L58762-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	09/17/13	09/17/13	09/25/13	
WG128877- MB			CVTSS	BLANK WTR		09/17/13	09/25/13	MB1 130916
WG128877- LCS			CVTSS	BLANK WTR		09/17/13	09/25/13	LEVEL1
WG128877- LD			CVTSS	GRND WTR		09/17/13	09/25/13	L58647-1
WG128877- LD			CVTSS	FRESH WTR		09/17/13	09/25/13	L58688-2

WG128948 (TSS) Department: 3 - Conventional Move Date: 2013-09-20 12:35:03

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58305-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/06/13	09/09/13	09/20/13	
L58306-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/06/13	09/09/13	09/20/13	
L58626-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/04/13	09/09/13	09/20/13	
L58628-1	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/04/13	09/09/13	09/20/13	
L58628-3	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/05/13	09/09/13	09/20/13	
L58635-5	421422-DUGW	SWD-DUGW Duvall Groundwater Quarterly	CVTSS	GRND WTR	09/05/13	09/09/13	09/20/13	
L58639-1	421937	Brightwater Operations	CVTSS	EFFLUENT	09/03/13	09/09/13	09/20/13	
L58640-1	421937	Brightwater Operations	CVTSS	EFFLUENT	09/05/13	09/09/13	09/20/13	
L58657-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/04/13	09/09/13	09/20/13	SAMP
L58657-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/04/13	09/09/13	09/20/13	SAMP
WG128948- MB			CVTSS	BLANK WTR		09/09/13	09/20/13	MB2 9/9/13
WG128948- LCS			CVTSS	BLANK WTR		09/09/13	09/20/13	LEVEL1
WG128948- LD			CVTSS	GRND WTR		09/09/13	09/20/13	L58628-1
WG128948- LD			CVTSS	EFFLUENT		09/09/13	09/20/13	L58639-1
WG128948- LD			CVTSS	FRESH WTR		09/09/13	09/20/13	L58657-1

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WG129042 (tss for 421422) Department: 3 - Conventional Move Date: 2013-10-04 16:26:54

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58689-1	421422-PUGW	SWD-PUGW Puyallup Groundwater Quarterly	CVTSS	GRND WTR	09/19/13	09/25/13	10/04/13	
L58702-1	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTSS	FRESH WTR	09/18/13	09/25/13	10/04/13	
L58702-3	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTSS	FRESH WTR	09/18/13	09/25/13	10/04/13	
L58702-4	421422-VASW	SWD-VASW Vashon Surface Water Quarterly	CVTSS	FRESH WTR	09/18/13	09/25/13	10/04/13	
L58703-1	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	09/24/13	09/25/13	10/04/13	
L58703-2	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	09/24/13	09/25/13	10/04/13	
L58703-4	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	09/24/13	09/25/13	10/04/13	
L58703-7	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	09/25/13	09/25/13	10/04/13	
L58703-9	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	09/25/13	09/25/13	10/04/13	
L58703-10	421422-CHSW-Q	SWD-CHSW Q Cedar Hills Surface Water Quarterly	CVTSS	FRESH WTR	09/25/13	09/25/13	10/04/13	
L58704-1	421422-CHSW-P2	SWD-CHSW P - 2 Cedar Hills Surface Water Permit 2	CVTSS	FRESH WTR	09/25/13	09/25/13	10/04/13	
L58704-2	421422-CHSW-P2	SWD-CHSW P - 2 Cedar Hills Surface Water Permit 2	CVTSS	FRESH WTR	09/25/13	09/25/13	10/04/13	
L58704-3	421422-CHSW-P2	SWD-CHSW P - 2 Cedar Hills Surface Water Permit 2	CVTSS	FRESH WTR	09/25/13	09/25/13	10/04/13	
L58751-3	421250BS	Ambient Intertidal Beaches-South	CVTSS	SALT WTR	09/18/13	09/25/13	10/04/13	
L58751-4	421250BS	Ambient Intertidal Beaches-South	CVTSS	SALT WTR	09/18/13	09/25/13	10/04/13	
L58751-5	421250BS	Ambient Intertidal Beaches-South	CVTSS	SALT WTR	09/18/13	09/25/13	10/04/13	
L58751-6	421250BS	Ambient Intertidal Beaches-South	CVTSS	SALT WTR	09/18/13	09/25/13	10/04/13	
L58751-8	421250BS	Ambient Intertidal Beaches-South	CVTSS	SALT WTR	09/18/13	09/25/13	10/04/13	
L58791-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	09/19/13	09/25/13	10/04/13	SAMP
L58795-1	423589-320-4	CSO Basin Study	CVTSS	SEWER WTR	09/19/13	09/25/13	10/04/13	
L58795-2	423589-320-4	CSO Basin Study	CVTSS	SEWER WTR	09/19/13	09/25/13	10/04/13	
L58795-3	423589-320-4	CSO Basin Study	CVTSS	SEWER WTR	09/19/13	09/25/13	10/04/13	
WG129042- MB			CVTSS	BLANK WTR		09/25/13	10/04/13	MB 130925
WG129042- LCS			CVTSS	BLANK WTR		09/25/13	10/04/13	LEVEL1
WG129042- LD			CVTSS	GRND WTR		09/25/13	10/04/13	L58689-1
WG129042- LD			CVTSS	FRESH WTR		09/25/13	10/04/13	L58703-1
WG129042- LD			CVTSS	SALT WTR		09/25/13	10/04/13	L58751-3
WG129042- LD			CVTSS	FRESH WTR		09/25/13	10/04/13	L58791-1
WG129042- MB			CVTSS	BLANK WTR		09/25/13	10/04/13	MB2 130925
WG129042- LCS			CVTSS	BLANK WTR		09/25/13	10/04/13	LEVEL1
WG129042- LD			CVTSS	SEWER WTR		09/25/13	10/04/13	L58795-1

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WG129227 (tss for 421422/421194/423) Department: 3 - Conventional Water Sampling Move Date: 2013-10-17 10:10:30

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58466-3	421422-CHSW-M	SWD-CHSW M Cedar Hills Surface Water Monthly	CVTSS	FRESH WTR	9/30/2013	10/7/2013	10/10/2013	
L58660-1	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	10/2/2013	10/7/2013	10/10/2013	
L58660-2	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	10/2/2013	10/7/2013	10/10/2013	
L58660-3	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	10/2/2013	10/7/2013	10/10/2013	
L58660-4	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	10/2/2013	10/7/2013	10/10/2013	
L58660-5	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	10/2/2013	10/7/2013	10/10/2013	
L58660-6	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	10/2/2013	10/7/2013	10/10/2013	
L58660-7	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	10/2/2013	10/7/2013	10/10/2013	
L58855-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/3/2013	10/7/2013	10/10/2013	
L58855-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/3/2013	10/7/2013	10/10/2013	
L58861-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	10/1/2013	10/7/2013	10/10/2013	SAMP
L58861-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	10/1/2013	10/7/2013	10/10/2013	SAMP
L58861-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	10/1/2013	10/7/2013	10/10/2013	FREP
WG129227-1	MB		CVTSS	BLANK WTR		10/7/2013	10/10/2013	MB1 131007
WG129227-2	LCS		CVTSS	BLANK WTR		10/7/2013	10/10/2013	LEVEL1
WG129227-3	LD		CVTSS	FRESH WTR		10/7/2013	10/10/2013	L58466-3
WG129227-4	LD		CVTSS	STORM WTR		10/7/2013	10/10/2013	L58660-3
WG129227-5	LD		CVTSS	GRND WTR		10/7/2013	10/10/2013	L58855-1
WG129227-6	LD		CVTSS	STORM WTR		10/7/2013	10/10/2013	L58861-2

WG129494 (tss for 421874/423589) Department: 3 - Conventional Water Sampling Move Date: 2013-11-01 13:57:56

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58699-1	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	10/22/2013	10/23/2013	10/30/2013	
L58699-2	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	10/22/2013	10/23/2013	10/30/2013	
L58699-3	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	10/22/2013	10/23/2013	10/30/2013	
L58699-4	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	10/22/2013	10/23/2013	10/30/2013	
L58699-5	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	10/22/2013	10/23/2013	10/30/2013	
L58699-6	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	10/22/2013	10/23/2013	10/30/2013	
L58699-7	421874-100	City of Shoreline Monthly Water Quality Monitoring	CVTSS	FRESH WTR	10/22/2013	10/23/2013	10/30/2013	
L58899-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/16/2013	10/23/2013	10/30/2013	
L58899-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	10/16/2013	10/23/2013	10/30/2013	
L58976-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	10/17/2013	10/23/2013	10/30/2013	SAMP
L58976-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	FRESH WTR	10/17/2013	10/23/2013	10/30/2013	SAMP
L58994-1	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FRESH WTR	10/16/2013	10/23/2013	10/30/2013	
L58994-2	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FILTER WTR	10/16/2013	10/23/2013	10/30/2013	
L58994-3	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FILTER WTR	10/16/2013	10/23/2013	10/30/2013	

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L58997-1	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FRESH WTR	10/17/2013	10/23/2013	10/30/2013	
L58997-2	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FILTER WTR	10/17/2013	10/23/2013	10/30/2013	
L58997-3	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FILTER WTR	10/17/2013	10/23/2013	10/30/2013	
L59037-1	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FRESH WTR	10/22/2013	10/23/2013	10/30/2013	
L59037-2	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FILTER WTR	10/22/2013	10/23/2013	10/30/2013	
L59037-3	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FILTER WTR	10/22/2013	10/23/2013	10/30/2013	
WG129494-1	MB		CVTSS	BLANK WTR		10/23/2013	10/30/2013	MB1 131023
WG129494-2	LCS		CVTSS	BLANK WTR		10/23/2013	10/30/2013	LEVEL1
WG129494-3	LD		CVTSS	FRESH WTR		10/23/2013	10/30/2013	L58699-2
WG129494-4	LD		CVTSS	FRESH WTR		10/23/2013	10/30/2013	L58976-2
WG129494-5	LD		CVTSS	FILTER WTR		10/23/2013	10/30/2013	L58994-2

WG129769 (tss for 421240/421422/423) Department: 3 - Conventionals Move Date: 2013-11-22 06:42:18

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58952-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/7/2013	11/8/2013	11/18/2013	
L59043-1	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-2	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-3	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-4	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-5	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-6	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-7	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-8	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-9	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-10	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-11	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-12	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59043-13	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59044-1	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59044-2	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59044-3	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59044-4	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59044-5	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	11/5/2013	11/8/2013	11/18/2013	
L59097-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/7/2013	11/8/2013	11/18/2013	
L59098-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/7/2013	11/8/2013	11/18/2013	
L59101-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/7/2013	11/8/2013	11/18/2013	
L59104-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/8/2013	11/8/2013	11/18/2013	
L59105-1	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTSS	GRND WTR	11/8/2013	11/8/2013	11/18/2013	
L59105-3	421422-ENGW	SWD-ENGW Enumclaw Groundwater Quarterly	CVTSS	GRND WTR	11/8/2013	11/8/2013	11/18/2013	

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L59106-1	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/7/2013	11/8/2013	11/18/2013
L59106-2	421422-VAGW	SWD-VAGW Vashon Groundwater Quarterly	CVTSS	GRND WTR	11/7/2013	11/8/2013	11/18/2013
L59148-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/7/2013	11/8/2013	11/18/2013 SAMP
L59148-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/7/2013	11/8/2013	11/18/2013 SAMP
L59148-3	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/7/2013	11/8/2013	11/18/2013 FREP
WG129769-1	MB		CVTSS	BLANK WTR		11/8/2013	11/18/2013 MB1 131108
WG129769-2	LCS		CVTSS	BLANK WTR		11/8/2013	11/18/2013 LEVEL1
WG129769-3	LD		CVTSS	GRND WTR		11/8/2013	11/18/2013 L58952-1
WG129769-4	LD		CVTSS	FRESH WTR		11/8/2013	11/18/2013 L59043-1
WG129769-5	MB		CVTSS	BLANK WTR		11/8/2013	11/18/2013 MB2 131108
WG129769-6	LCS		CVTSS	BLANK WTR		11/8/2013	11/18/2013 LEVEL1
WG129769-7	LD		CVTSS	STORM WTR		11/8/2013	11/18/2013 L59148-1

WG129814 (TSS/421195, 423589) Department: 3 - Conventionals Move Date: 2013-11-26 14:34:26

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58915-1	421195-450	China Creek Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L58915-2	421195-450	China Creek Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L58915-3	421195-450	China Creek Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L58915-4	421195-450	China Creek Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L58915-5	421195-450	China Creek Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L58915-6	421195-450	China Creek Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L58915-7	421195-450	China Creek Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L58915-8	421195-450	China Creek Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-1	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-2	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-3	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-4	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-5	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-6	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-7	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-8	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-9	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-10	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-11	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-12	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59046-13	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/7/2013	11/12/2013	11/13/2013	
L59149-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/6/2013	11/12/2013	11/13/2013 Samp	
L59155-1	423589-320-4	CSO Basin Study	CVTSS	STORM WTR	11/6/2013	11/12/2013	11/13/2013	
L59155-3	423589-320-4	CSO Basin Study	CVTSS	STORM WTR	11/6/2013	11/12/2013	11/13/2013	

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L59167-1	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FILTER WTR	11/7/2013	11/12/2013	11/13/2013
L59168-1	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FILTER WTR	11/7/2013	11/12/2013	11/13/2013
L59169-1	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FILTER WTR	11/8/2013	11/12/2013	11/13/2013
L59170-1	423589-335-4	LDW Green River, Suspended Solids	CVTSS	FILTER WTR	11/8/2013	11/12/2013	11/13/2013
WG129814-1	MB		CVTSS	BLANK WTR		11/12/2013	11/13/2013 MB1 11/12/13
WG129814-2	LCS		CVTSS	BLANK WTR		11/12/2013	11/13/2013 LEVEL1
WG129814-3	LD		CVTSS	STORM WTR		11/12/2013	11/13/2013 L58915-2
WG129814-4	LD		CVTSS	STORM WTR		11/12/2013	11/13/2013 L59046-1
WG129814-5	MB		CVTSS	BLANK WTR		11/12/2013	11/13/2013 MB2 11/12/13
WG129814-6	LCS		CVTSS	BLANK WTR		11/12/2013	11/13/2013 LEVEL1
WG129814-7	LD		CVTSS	STORM WTR		11/12/2013	11/13/2013 L59149-1

WG129970 (tss for 422019/421195/423) Department: 3 - Conventionals Move Date: 2013-12-04 07:38:50

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59045-1	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59045-2	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59045-3	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59045-4	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59045-5	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59045-6	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59045-7	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59045-8	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59045-9	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59045-10	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59045-11	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59045-12	422019	WRIA 7 Streams Ambient Monitoring	CVTSS	FRESH WTR	11/18/2013	11/20/2013	11/22/2013	
L59212-1	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/18/2013	11/20/2013	11/22/2013	
L59212-2	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/18/2013	11/20/2013	11/22/2013	
L59212-3	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/18/2013	11/20/2013	11/22/2013	
L59212-4	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/18/2013	11/20/2013	11/22/2013	
L59212-5	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/18/2013	11/20/2013	11/22/2013	
L59212-6	421195-180	Mercer Island Stormwater Monitoring	CVTSS	STORM WTR	11/18/2013	11/20/2013	11/22/2013	
L59239-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/18/2013	11/20/2013	11/22/2013	SAMP
L59240-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/19/2013	11/20/2013	11/22/2013	SAMP
L59240-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	11/19/2013	11/20/2013	11/22/2013	SAMP
L59241-1	423589-320-4	CSO Basin Study	CVTSS	STORM WTR	11/18/2013	11/20/2013	11/22/2013	
L59241-3	423589-320-4	CSO Basin Study	CVTSS	STORM WTR	11/18/2013	11/20/2013	11/22/2013	
WG129970-1	MB		CVTSS	BLANK WTR		11/20/2013	11/22/2013 MB1 131120	
WG129970-2	LCS		CVTSS	BLANK WTR		11/20/2013	11/22/2013 LEVEL1	

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WG129970-3 LD		CVTSS	FRESH WTR	11/20/2013	11/22/2013 L59045-2
WG129970-4 LD		CVTSS	STORM WTR	11/20/2013	11/22/2013 L59212-4
WG129970-5 LD		CVTSS	STORM WTR	11/20/2013	11/22/2013 L59241-1
WG129970-6 MB		CVTSS	BLANK WTR	11/20/2013	11/22/2013 MB2 131120
WG129970-7 LCS		CVTSS	BLANK WTR	11/20/2013	11/22/2013 LEVEL1

WG130655 (tss for 421240/421422/423) Department: 3 - Conventional Move Date: 2014-01-16 12:59:43

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59427-1	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-2	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-3	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-4	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-5	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-6	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-7	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-8	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-9	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-10	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-11	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-12	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59427-13	421240A	STREAMS MONITOR (surf wtr)	CVTSS	FRESH WTR	1/7/2014	1/13/2014	1/14/2014	
L59435-1	421422-CHGW-NP	SWD-CHGW-NP Cedar Hills Groundwater Non-Potable	CVTSS	GRND WTR	1/9/2014	1/13/2014	1/14/2014	
L59437-1	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	1/10/2014	1/13/2014	1/14/2014	
L59437-2	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	1/9/2014	1/13/2014	1/14/2014	
L59437-5	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	1/10/2014	1/13/2014	1/14/2014	
L59437-6	421422-CHGW	SWD-CHGW Cedar Hills Groundwater Quarterly	CVTSS	GRND WTR	1/10/2014	1/13/2014	1/14/2014	
L59470-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	1/8/2014	1/13/2014	1/14/2014 SAMP	
L59470-2	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	1/8/2014	1/13/2014	1/14/2014 FREP@L59470-1	
WG130655-1	MB		CVTSS	BLANK WTR		1/13/2014		1/14/2014 MB1 140113
WG130655-2	LCS		CVTSS	BLANK WTR		1/13/2014		1/14/2014 LEVEL1
WG130655-3	LD		CVTSS	FRESH WTR		1/13/2014		1/14/2014 L59427-2
WG130655-4	LD		CVTSS	GRND WTR		1/13/2014		1/14/2014 L59435-1
WG130655-5	LD		CVTSS	STORM WTR		1/13/2014		1/14/2014 L59470-1

WG130893 (IW TSS) Department: 3 - Conventional Move Date: 2014-02-05 13:59:45

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59564-1	421183	IW KEYMANHOLE	CVTSS	IW WTR	1/27/2014	1/30/2014	2/4/2014	

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L59564-2	421183	IW KEYMANHOLE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59565-1	421183	IW KEYMANHOLE	CVTSS	IW WTR	1/27/2014	1/30/2014	2/4/2014
L59565-2	421183	IW KEYMANHOLE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59566-1	421183	IW KEYMANHOLE	CVTSS	IW WTR	1/27/2014	1/30/2014	2/4/2014
L59566-2	421183	IW KEYMANHOLE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59568-1	421183	IW KEYMANHOLE	CVTSS	IW WTR	1/27/2014	1/30/2014	2/4/2014
L59568-2	421183	IW KEYMANHOLE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59569-1	421183	IW KEYMANHOLE	CVTSS	IW WTR	1/27/2014	1/30/2014	2/4/2014
L59569-2	421183	IW KEYMANHOLE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59570-1	421161	IW SURCHARGE	CVTSS	IW WTR	1/27/2014	1/30/2014	2/4/2014
L59570-2	421161	IW SURCHARGE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59571-1	421161	IW SURCHARGE	CVTSS	IW WTR	1/27/2014	1/30/2014	2/4/2014
L59571-2	421161	IW SURCHARGE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59572-1	421161	IW SURCHARGE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59572-2	421161	IW SURCHARGE	CVTSS	IW WTR	1/29/2014	1/30/2014	2/4/2014
L59573-1	421161	IW SURCHARGE	CVTSS	IW WTR	1/29/2014	1/30/2014	2/4/2014
L59578-1	421161	IW SURCHARGE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59579-1	421161	IW SURCHARGE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59580-1	421161	IW SURCHARGE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59582-1	421161	IW SURCHARGE	CVTSS	IW WTR	1/27/2014	1/30/2014	2/4/2014
L59582-2	421161	IW SURCHARGE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59583-1	421161	IW SURCHARGE	CVTSS	IW WTR	1/27/2014	1/30/2014	2/4/2014
L59583-2	421161	IW SURCHARGE	CVTSS	IW WTR	1/28/2014	1/30/2014	2/4/2014
L59595-1	423589-330-4	Green Rvr PCB/PAH Loading	CVTSS	STORM WTR	1/29/2014	1/30/2014	2/4/2014 SAMP
WG130893-1	MB		CVTSS	BLANK WTR		1/30/2014	2/4/2014 MB1 1/30/14
WG130893-2	LCS		CVTSS	BLANK WTR		1/30/2014	2/4/2014 LEVEL1
WG130893-3	LD		CVTSS	IW WTR		1/30/2014	2/4/2014 L59583-1
WG130893-4	LD		CVTSS	IW WTR		1/30/2014	2/4/2014 L59569-2
WG130893-5	MB		CVTSS	BLANK WTR		1/30/2014	2/4/2014 MB2 1/30/14
WG130893-6	LCS		CVTSS	BLANK WTR		1/30/2014	2/4/2014 LEVEL1
WG130893-7	LD		CVTSS	STORM WTR		1/30/2014	2/4/2014 L59595-1

LIMSView Batch Report for Upper Green River Water Sampling - Data Validation for As and PAHs - Part 1

WG126592 (4/30/13 As totals) Department: 6 - Metals Move Date: 2013-05-02 10:57:18

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date
L57715-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	04/04/13	04/30/13	04/30/13
L57751-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	04/10/13	04/30/13	04/30/13
L57772-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	04/18/13	04/30/13	04/30/13
L57794-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	BLANK WTR	04/23/13	04/30/13	04/30/13
WG126592-1	MB		MTICPMS	BLANK WTR		04/30/13	04/30/13
WG126592-2	SB		MTICPMS	BLANK WTR		04/30/13	04/30/13
WG126592-3	LD		MTICPMS	STORM WTR		04/30/13	04/30/13
WG126592-4	MS		MTICPMS	STORM WTR		04/30/13	04/30/13

WG128003 (7/26/13 MISC TOTALS) Department: 6 - Metals Move Date: 2013-08-05 08:15:34

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date
L58246-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	07/10/13	07/26/13	07/30/13
L58258-1	421195-490	Stormwater Services Vashon MRA-PIC	MTICPMS	FRESH WTR	07/10/13	07/26/13	07/30/13
L58258-2	421195-490	Stormwater Services Vashon MRA-PIC	MTICPMS	FRESH WTR	07/10/13	07/26/13	07/30/13
L58258-3	421195-490	Stormwater Services Vashon MRA-PIC	MTICPMS	FRESH WTR	07/10/13	07/26/13	07/30/13
L58258-4	421195-490	Stormwater Services Vashon MRA-PIC	MTICPMS	FRESH WTR	07/10/13	07/26/13	07/30/13
L58258-5	421195-490	Stormwater Services Vashon MRA-PIC	MTICPMS	FRESH WTR	07/10/13	07/26/13	07/30/13
L58258-6	421195-490	Stormwater Services Vashon MRA-PIC	MTICPMS	FRESH WTR	07/10/13	07/26/13	07/30/13
L58258-7	421195-490	Stormwater Services Vashon MRA-PIC	MTICPMS	FRESH WTR	07/10/13	07/26/13	07/30/13
L58258-8	421195-490	Stormwater Services Vashon MRA-PIC	MTICPMS	FRESH WTR	07/10/13	07/26/13	07/30/13
L58258-9	421195-490	Stormwater Services Vashon MRA-PIC	MTICPMS	FRESH WTR	07/10/13	07/26/13	07/30/13
L58258-11	421195-490	Stormwater Services Vashon MRA-PIC	MTICPMS	FRESH WTR	07/10/13	07/26/13	07/30/13
L58273-1	421186B	RTP INPLNT 3 DAY INT (inf,eff,sl)	MTICPMS	INFLUENT	07/22/13	07/26/13	07/30/13
L58273-4	421186B	RTP INPLNT 3 DAY INT (inf,eff,sl)	MTICPMS	EFFLUENT	07/22/13	07/26/13	07/30/13
L58273-7	421186B	RTP INPLNT 3 DAY INT (inf,eff,sl)	MTICPMS	EFFLUENT	07/22/13	07/26/13	07/30/13
L58274-1	421186B	RTP INPLNT 3 DAY INT (inf,eff,sl)	MTICPMS	INFLUENT	07/23/13	07/26/13	07/30/13
L58274-4	421186B	RTP INPLNT 3 DAY INT (inf,eff,sl)	MTICPMS	EFFLUENT	07/23/13	07/26/13	07/30/13
L58274-7	421186B	RTP INPLNT 3 DAY INT (inf,eff,sl)	MTICPMS	EFFLUENT	07/23/13	07/26/13	07/30/13
L58307-1	421422-CFSW	SWD-CFSW Cedar Falls SW Quarterly	MTHARD-ICPMS	FRESH WTR	07/25/13	07/26/13	08/02/13
L58307-1	421422-CFSW	SWD-CFSW Cedar Falls SW Quarterly	MTICPMS	FRESH WTR	07/25/13	07/26/13	07/30/13
L58311-1	421422-CHSW-P2	SWD-CHSW P - 2	MTICPMS	FRESH WTR	07/25/13	07/26/13	07/30/13
L58311-2	421422-CHSW-P2	SWD-CHSW P - 2	MTICPMS	FRESH WTR	07/25/13	07/26/13	07/30/13
WG128003-1	MB		MTHARD-ICPMS	BLANK WTR		07/26/13	08/02/13
WG128003-1	MB		MTICPMS	BLANK WTR		07/26/13	07/30/13
WG128003-2	SB		MTHARD-ICPMS	BLANK WTR		07/26/13	08/02/13
WG128003-2	SB		MTICPMS	BLANK WTR		07/26/13	07/30/13
WG128003-3	LD		MTHARD-ICPMS	FRESH WTR		07/26/13	08/02/13

LIMSView Batch Report for Upper Green River Water Sampling - Data Validation for As and PAHs - Part 1

WG128003-3	LD		MTICPMS	FRESH WTR	07/26/13	07/30/13
WG128003-4	MS		MTHARD-ICPMS	FRESH WTR	07/26/13	08/02/13
WG128003-4	MS		MTICPMS	FRESH WTR	07/26/13	07/30/13

WG129200 (10/7/13 AS ONLY) Department: 6 - Metals Move Date: 2013-10-11 14:49:31

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date
L58657-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/04/13	10/07/13	10/08/13
L58657-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/04/13	10/07/13	10/08/13
L58688-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/10/13	10/07/13	10/08/13
L58688-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/10/13	10/07/13	10/08/13
L58688-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/10/13	10/07/13	10/08/13
L58708-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/10/13	10/07/13	10/08/13
L58791-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	09/19/13	10/07/13	10/08/13
WG129200-1	MB		MTICPMS	BLANK WTR		10/07/13	10/08/13
WG129200-2	SB		MTICPMS	BLANK WTR		10/07/13	10/08/13
WG129200-3	LD		MTICPMS	FRESH WTR		10/07/13	10/08/13
WG129200-4	MS		MTICPMS	FRESH WTR		10/07/13	10/08/13

WG126593 (4/30/13 As Diss) Department: 6 - Metals Move Date: 2013-05-02 10:57:24

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date
L57715-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	04/04/13	04/30/13	04/30/13
L57751-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	04/10/13	04/30/13	04/30/13
L57772-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	04/18/13	04/30/13	04/30/13
L57794-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	BLANK WTR	04/23/13	04/30/13	04/30/13
WG126593-1	MB		MTICPMS-DISS	BLANK WTR		04/30/13	04/30/13
WG126593-2	SB		MTICPMS-DISS	BLANK WTR		04/30/13	04/30/13
WG126593-3	LD		MTICPMS-DISS	STORM WTR		04/30/13	04/30/13
WG126593-4	MS		MTICPMS-DISS	STORM WTR		04/30/13	04/30/13

WG127897 (7/19/13 SWD Vashon) Department: 6 - Metals Move Date: 2013-07-24 14:03:07

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date
L58075-3	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/16/13	07/19/13	07/22/13
L58197-1	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/09/13	07/19/13	07/22/13
L58198-1	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/09/13	07/19/13	07/22/13
L58198-2	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/08/13	07/19/13	07/22/13
L58198-5	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/08/13	07/19/13	07/22/13
L58198-6	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/09/13	07/19/13	07/22/13
L58200-1	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/12/13	07/19/13	07/22/13

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L58200-2	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/12/13	07/19/13	07/22/13
L58200-5	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/09/13	07/19/13	07/22/13
L58200-6	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/17/13	07/19/13	07/22/13
L58206-11	421422-100	SWD , Brownfield Program	MTICPMS-DISS	FRESH WTR	06/25/13	07/19/13	07/22/13
L58206-12	421422-100	SWD , Brownfield Program	MTICPMS-DISS	FRESH WTR	06/25/13	07/19/13	07/22/13
L58206-13	421422-100	SWD , Brownfield Program	MTICPMS-DISS	FRESH WTR	06/25/13	07/19/13	07/22/13
L58206-14	421422-100	SWD , Brownfield Program	MTICPMS-DISS	FRESH WTR	06/25/13	07/19/13	07/22/13
L58206-15	421422-100	SWD , Brownfield Program	MTICPMS-DISS	FRESH WTR	06/25/13	07/19/13	07/23/13
L58235-1	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/15/13	07/19/13	07/22/13
L58235-2	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/15/13	07/19/13	07/22/13
L58235-5	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/15/13	07/19/13	07/22/13
L58235-6	421422-CHGW	SWD-CHGW Cedar Hills GW Quarterly	MTICPMS-DISS	GRND WTR	07/16/13	07/19/13	07/22/13
L58246-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	07/10/13	07/19/13	07/22/13
WG127897-1	MB		MTICPMS-DISS	BLANK WTR		07/19/13	07/22/13
WG127897-2	SB		MTICPMS-DISS	BLANK WTR		07/19/13	07/22/13
WG127897-3	LD		MTICPMS-DISS	STORM WTR		07/19/13	07/22/13
WG127897-4	MS		MTICPMS-DISS	STORM WTR		07/19/13	07/22/13

WG129229 (10/8/13 As Only Diss) Department: 6 - Metals Move Date: 2013-10-11 14:49:38

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date
L58657-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/04/13	10/08/13	10/08/13
L58657-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/04/13	10/08/13	10/08/13
L58688-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/10/13	10/08/13	10/08/13
L58688-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/10/13	10/08/13	10/08/13
L58688-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/10/13	10/08/13	10/08/13
L58708-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/10/13	10/08/13	10/08/13
L58791-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	09/19/13	10/08/13	10/08/13
WG129229-1	MB		MTICPMS-DISS	BLANK WTR		10/08/13	10/08/13
WG129229-2	SB		MTICPMS-DISS	BLANK WTR		10/08/13	10/08/13
WG129229-3	LD		MTICPMS-DISS	FRESH WTR		10/08/13	10/08/13
WG129229-4	MS		MTICPMS-DISS	FRESH WTR		10/08/13	10/08/13

WG126306 (pahll#029 pah-sim-lvi-ll) Department: 7 - Organics Move Date: 2013-04-26 10:04:06

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date
L57715-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	04/04/13	04/11/13	04/15/13
L57751-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	04/10/13	04/11/13	04/15/13
WG126306-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		04/11/13	04/15/13
WG126306-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		04/11/13	04/15/13
WG126306-3	MS		ORPAH-SIM-LVI-LL	STORM WTR		04/11/13	04/15/13

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WG126306-4	MSD	ORPAH-SIM-LVI-LL	STORM WTR	04/11/13	04/15/13
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WG126532 (pahll#030 pah-sim-lvi-ll) Department: 7 - Organics Move Date: 2013-05-16 07:47:25

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date
L57772-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	04/18/13	04/25/13	05/14/13
L57794-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	BLANK WTR	04/23/13	04/25/13	05/14/13
WG126532-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		04/25/13	05/14/13
WG126532-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		04/25/13	05/14/13
WG126532-3	MS		ORPAH-SIM-LVI-LL	STORM WTR		04/25/13	05/14/13
WG126532-4	MSD		ORPAH-SIM-LVI-LL	STORM WTR		04/25/13	05/14/13

WG127806 (pahll#031 pah-sim-lvi-ll) Department: 7 - Organics Move Date: 2013-08-06 05:59:51

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date
L58246-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	07/10/13	07/15/13	07/22/13
WG127806-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		07/15/13	07/22/13
WG127806-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		07/15/13	07/22/13
WG127806-3	MS		ORPAH-SIM-LVI-LL	FRESH WTR		07/15/13	07/22/13
WG127806-4	MSD		ORPAH-SIM-LVI-LL	FRESH WTR		07/15/13	07/22/13

WG128792 (PAHLL#33) Department: 7 - Organics Move Date: 2013-09-19 10:31:40

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date
L58657-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/04/13	09/11/13	09/16/13
L58657-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/04/13	09/11/13	09/16/13
L58688-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/10/13	09/11/13	09/16/13
L58688-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/10/13	09/11/13	09/16/13
L58688-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/10/13	09/11/13	09/16/13
L58708-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/10/13	09/11/13	09/16/13
WG128792-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		09/11/13	09/16/13
WG128792-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		09/11/13	09/16/13
WG128792-3	MS		ORPAH-SIM-LVI-LL	FRESH WTR		09/11/13	09/16/13
WG128792-4	MSD		ORPAH-SIM-LVI-LL	FRESH WTR		09/11/13	09/16/13

WG129048 (pahll#34 pah-sim-lvi-ll) Department: 7 - Organics Move Date: 2013-10-18 14:20:12

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date
L58791-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	09/19/13	09/26/13	10/15/13
WG129048-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		09/26/13	10/15/13
WG129048-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		09/26/13	10/15/13

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WG129048-3 SBD
WG129048-4 MS

ORPAH-SIM-LVI-LL BLANK WTR 09/26/13 10/15/13
ORPAH-SIM-LVI-LL FRESH WTR 09/26/13 10/15/13

LIMSView Batch Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

WG129574 (10/28/13 GRN RVT LOADING) Department: 6 - Metals Move Date: 2013-10-31 16:18:03

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58861-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	10/1/2013	10/28/2013	10/29/2013	SAMP
L58861-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	10/1/2013	10/28/2013	10/29/2013	SAMP
L58861-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	10/1/2013	10/28/2013	10/29/2013	FREP
L58976-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	10/17/2013	10/28/2013	10/29/2013	SAMP
L58976-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	FRESH WTR	10/17/2013	10/28/2013	10/29/2013	SAMP
WG129574-1	MB		MTICPMS	BLANK WTR		10/28/2013	10/29/2013	METHOD BLANK
WG129574-2	SB		MTICPMS	BLANK WTR		10/28/2013	10/29/2013	WG129574-1 MS-20
WG129574-3	LD		MTICPMS	STORM WTR		10/28/2013	10/29/2013	L58861-1 RPD-LIQ
WG129574-4	MS		MTICPMS	STORM WTR		10/28/2013	10/29/2013	L58861-1 MS-20

WG130112 (12/2/13 GRN RVR Totals) Department: 6 - Metals Move Date: 2013-12-05 15:16:53

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59148-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/7/2013	12/2/2013	12/2/2013	SAMP
L59148-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/7/2013	12/2/2013	12/2/2013	SAMP
L59148-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/7/2013	12/2/2013	12/2/2013	FREP
L59149-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/6/2013	12/2/2013	12/2/2013	Samp
L59239-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/18/2013	12/2/2013	12/2/2013	SAMP
L59240-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/19/2013	12/2/2013	12/2/2013	SAMP
L59240-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	11/19/2013	12/2/2013	12/2/2013	SAMP
WG130112-1	MB		MTICPMS	BLANK WTR		12/2/2013	12/2/2013	METHOD BLANK
WG130112-2	SB		MTICPMS	BLANK WTR		12/2/2013	12/2/2013	WG130112-1 MS-20
WG130112-3	LD		MTICPMS	STORM WTR		12/2/2013	12/2/2013	L59149-1 RPD-LIQ
WG130112-4	MS		MTICPMS	STORM WTR		12/2/2013	12/2/2013	L59149-1 MS-20

WG130881 (1/30/14 GRN RVR TOTALS) Department: 6 - Metals Move Date: 2014-02-07 16:24:54

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59470-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	1/8/2014	1/30/2014	2/5/2014	SAMP
L59470-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	1/8/2014	1/30/2014	2/5/2014	FREP@L59470-1
WG130881-1	MB		MTICPMS	BLANK WTR		1/30/2014	2/5/2014	METHOD BLANK
WG130881-2	SB		MTICPMS	BLANK WTR		1/30/2014	2/5/2014	WG130881-1 MS-20
WG130881-3	LD		MTICPMS	STORM WTR		1/30/2014	2/5/2014	L59470-2 RPD-LIQ
WG130881-4	MS		MTICPMS	STORM WTR		1/30/2014	2/5/2014	L59470-2 MS-20

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WG131276 (26-FEB-14 Green R As) Department: 6 - Metals Move Date: 2014-02-27 07:59:30

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59595-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS	STORM WTR	1/29/2014	2/26/2014	2/26/2014	SAMP
WG131276-1	MB		MTICPMS	BLANK WTR		2/26/2014	2/26/2014	METHOD BLANK
WG131276-2	SB		MTICPMS	BLANK WTR		2/26/2014	2/26/2014	WG131276-1 MS-20
WG131276-3	LD		MTICPMS	STORM WTR		2/26/2014	2/26/2014	L59595-1 RPD-LIQ
WG131276-4	MS		MTICPMS	STORM WTR		2/26/2014	2/26/2014	L59595-1 MS-20

WG129576 (10/28/13 GRN RVR LOADING) Department: 6 - Metals Move Date: 2013-10-31 16:18:08

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58861-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	10/1/2013	10/28/2013	10/29/2013	SAMP
L58861-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	10/1/2013	10/28/2013	10/29/2013	SAMP
L58861-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	10/1/2013	10/28/2013	10/29/2013	FREP
L58976-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	10/17/2013	10/28/2013	10/29/2013	SAMP
L58976-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	FRESH WTR	10/17/2013	10/28/2013	10/29/2013	SAMP
WG129576-1	MB		MTICPMS-DISS	BLANK WTR		10/28/2013	10/29/2013	METHOD BLANK
WG129576-2	SB		MTICPMS-DISS	BLANK WTR		10/28/2013	10/29/2013	WG129576-1 MS-20
WG129576-3	LD		MTICPMS-DISS	FRESH WTR		10/28/2013	10/29/2013	L58976-1 RPD-LIQ
WG129576-4	MS		MTICPMS-DISS	FRESH WTR		10/28/2013	10/29/2013	L58976-1 MS-20

WG130113 (12/2/13 GRN RVR Diss) Department: 6 - Metals Move Date: 2013-12-05 15:17:28

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59148-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/7/2013	12/2/2013	12/2/2013	SAMP
L59148-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/7/2013	12/2/2013	12/2/2013	SAMP
L59148-3	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/7/2013	12/2/2013	12/2/2013	FREP
L59149-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/6/2013	12/2/2013	12/2/2013	Samp
L59239-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/18/2013	12/2/2013	12/2/2013	SAMP
L59240-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/19/2013	12/2/2013	12/2/2013	SAMP
L59240-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISS	STORM WTR	11/19/2013	12/2/2013	12/2/2013	SAMP
WG130113-1	MB		MTICPMS-DISS	BLANK WTR		12/2/2013	12/2/2013	METHOD BLANK
WG130113-2	SB		MTICPMS-DISS	BLANK WTR		12/2/2013	12/2/2013	WG130113-1 MS-20
WG130113-3	LD		MTICPMS-DISS	STORM WTR		12/2/2013	12/2/2013	L59148-1 RPD-LIQ
WG130113-4	MS		MTICPMS-DISS	STORM WTR		12/2/2013	12/2/2013	L59148-1 MS-20

WG130931 (03-FEB-14 Green R, Brando) Department: 6 - Metals Move Date: 2014-02-07 16:25:06

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Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59470-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISSL	STORM WTR	1/8/2014	2/4/2014	2/4/2014	SAMP
L59470-2	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISSL	STORM WTR	1/8/2014	2/4/2014	2/4/2014	FREP@L59470-1
L59471-1	423589-320-4	CSO Basin Study	MTICPMS-DISSL	STORM WTR	1/8/2014	2/4/2014	2/4/2014	
L59471-2	423589-320-4	CSO Basin Study	MTICPMS-DISSL	STORM WTR	1/8/2014	2/4/2014	2/4/2014	
L59471-3	423589-320-4	CSO Basin Study	MTICPMS-DISSL	STORM WTR	1/8/2014	2/4/2014	2/4/2014	
L59491-1	423530	Brandon-Michigan CSO TP (George MTICPMS-DISSL	STORM WTR	1/11/2014	2/4/2014	2/4/2014		
L59491-2	423530	Brandon-Michigan CSO TP (George MTICPMS-DISSL	STORM WTR	1/11/2014	2/4/2014	2/4/2014		
L59491-3	423530	Brandon-Michigan CSO TP (George MTICPMS-DISSL	STORM WTR	1/11/2014	2/4/2014	2/4/2014		
L59491-4	423530	Brandon-Michigan CSO TP (George MTICPMS-DISSL	STORM WTR	1/11/2014	2/4/2014	2/4/2014		
L59491-5	423530	Brandon-Michigan CSO TP (George MTICPMS-DISSL	STORM WTR	1/11/2014	2/4/2014	2/4/2014		
L59491-6	423530	Brandon-Michigan CSO TP (George MTICPMS-DISSL	STORM WTR	1/11/2014	2/4/2014	2/4/2014		
L59491-7	423530	Brandon-Michigan CSO TP (George MTICPMS-DISSL	STORM WTR	1/11/2014	2/4/2014	2/4/2014		
L59491-8	423530	Brandon-Michigan CSO TP (George MTICPMS-DISSL	STORM WTR	1/11/2014	2/4/2014	2/4/2014		
L59491-9	423530	Brandon-Michigan CSO TP (George MTICPMS-DISSL	STORM WTR	1/11/2014	2/4/2014	2/4/2014		
L59491-10	423530	Brandon-Michigan CSO TP (George MTICPMS-DISSL	STORM WTR	1/11/2014	2/4/2014	2/4/2014		
L59491-11	423530	Brandon-Michigan CSO TP (George MTICPMS-DISSL	STORM WTR	1/11/2014	2/4/2014	2/4/2014		
L59595-1	423589-330-4	Green Rvr PCB/PAH Loading	MTICPMS-DISSL	STORM WTR	1/29/2014	2/4/2014	2/4/2014	SAMP
WG130931-1	MB		MTICPMS-DISSL	BLANK WTR		2/4/2014	2/4/2014	METHOD BLANK
WG130931-2	SB		MTICPMS-DISSL	BLANK WTR		2/4/2014	2/4/2014	WG130931-1 MS-20
WG130931-3	LD		MTICPMS-DISSL	STORM WTR		2/4/2014	2/4/2014	L59491-10 RPD-LIQ
WG130931-4	MS		MTICPMS-DISSL	STORM WTR		2/4/2014	2/4/2014	L59491-10 MS-20
WG130931-5	MB		MTICPMS-DISSL	BLANK WTR		2/4/2014	2/4/2014	PRE FILTER BLANK L59491-(1-11)
WG130931-6	MB		MTICPMS-DISSL	BLANK WTR		2/4/2014	2/4/2014	MID FILTER BLANK L59491-(1-11)
WG130931-7	MB		MTICPMS-DISSL	BLANK WTR		2/4/2014	2/4/2014	POST FILTER BLANK L59491-(1-11)

WG129237 (PAHLL#35) Department: 7 - Organics Move Date: 2013-10-18 14:20:00

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58861-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	10/1/2013	10/8/2013	10/15/2013	SAMP
L58861-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	10/1/2013	10/8/2013	10/15/2013	SAMP
L58861-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	10/1/2013	10/8/2013	10/15/2013	FREP
WG129237-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		10/8/2013	10/15/2013	MB131008
WG129237-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		10/8/2013	10/15/2013	WG129237-1
WG129237-3	MS		ORPAH-SIM-LVI-LL	STORM WTR		10/8/2013	10/15/2013	L58861-2
WG129237-4	MSD		ORPAH-SIM-LVI-LL	STORM WTR		10/8/2013	10/15/2013	WG129237-3 L58861-2

WG129502 (PAHLL#36) Department: 7 - Organics Move Date: 2013-11-13 11:33:06

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Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L58976-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	10/17/2013	10/24/2013	11/7/2013	SAMP
L58976-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	FRESH WTR	10/17/2013	10/24/2013	11/7/2013	SAMP
WG129502-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		10/24/2013	11/7/2013	MB131024
WG129502-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		10/24/2013	11/7/2013	WG129502-1
WG129502-3	MS		ORPAH-SIM-LVI-LL	FRESH WTR		10/24/2013	11/7/2013	L58976-1
WG129502-4	MSD		ORPAH-SIM-LVI-LL	FRESH WTR		10/24/2013	11/7/2013	WG129502-3 L58976-1

WG129821 (pahll#37 pah-sim-lvi-ll) Department: 7 - Organics Move Date: 2013-12-07 08:55:27

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59148-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/7/2013	11/13/2013	11/24/2013	SAMP
L59148-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/7/2013	11/13/2013	11/24/2013	SAMP
L59148-3	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/7/2013	11/13/2013	11/24/2013	FREP
L59149-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/6/2013	11/13/2013	11/24/2013	Samp
WG129821-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		11/13/2013	11/24/2013	MB131113
WG129821-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		11/13/2013	11/24/2013	WG129821-1
WG129821-3	MS		ORPAH-SIM-LVI-LL	STORM WTR		11/13/2013	11/24/2013	L59148-2
WG129821-4	MSD		ORPAH-SIM-LVI-LL	STORM WTR		11/13/2013	11/24/2013	WG129821-3 L59148-2

WG129995 (pahLL#38 lvi-ll) Department: 7 - Organics Move Date: 2013-12-07 09:12:47

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59239-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/18/2013	11/21/2013	11/24/2013	SAMP
L59240-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/19/2013	11/21/2013	11/24/2013	SAMP
L59240-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	11/19/2013	11/21/2013	11/24/2013	SAMP
WG129995-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		11/21/2013	11/24/2013	MB131121
WG129995-2	SB		ORPAH-SIM-LVI-LL	BLANK WTR		11/21/2013	11/24/2013	WG129995-1
WG129995-3	MS		ORPAH-SIM-LVI-LL	STORM WTR		11/21/2013	11/24/2013	L59240-1
WG129995-4	MSD		ORPAH-SIM-LVI-LL	STORM WTR		11/21/2013	11/24/2013	WG129995-3 L59240-1

WG130669 (pahll#39 pah-sim-lvi-ll) Department: 7 - Organics Move Date: 2014-01-17 06:28:43

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59470-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	1/8/2014	1/13/2014	1/14/2014	SAMP
L59470-2	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL	STORM WTR	1/8/2014	1/13/2014	1/14/2014	FREP@L59470-1
WG130669-1	MB		ORPAH-SIM-LVI-LL	BLANK WTR		1/13/2014	1/14/2014	MB140113

LIMSView Batch Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

WG130669-2 SB	ORPAH-SIM-LVI-LL BLANK WTR	1/13/2014	1/14/2014	WG130669-1
WG130669-3 MS	ORPAH-SIM-LVI-LL STORM WTR	1/13/2014	1/14/2014	L59470-1
WG130669-4 MSD	ORPAH-SIM-LVI-LL STORM WTR	1/13/2014	1/14/2014	WG130669-3 L59470-1

WG130954 (pahll#40 pah-sim-lvi-II) Department: 7 - Organics Move Date: 2014-02-12 14:07:16

Sample	Project	Project Description	List Type	Matrix	Collect Date	Prep Date	Anal Date	Comments
L59595-1	423589-330-4	Green Rvr PCB/PAH Loading	ORPAH-SIM-LVI-LL STORM WTR	ORPAH-SIM-LVI-LL STORM WTR	1/29/2014	2/4/2014	2/6/2014	SAMP
WG130954-1	MB		ORPAH-SIM-LVI-LL BLANK WTR	ORPAH-SIM-LVI-LL BLANK WTR		2/4/2014	2/6/2014	MB140204
WG130954-2	SB		ORPAH-SIM-LVI-LL BLANK WTR	ORPAH-SIM-LVI-LL BLANK WTR		2/4/2014	2/6/2014	WG130954-1
WG130954-3	MS		ORPAH-SIM-LVI-LL STORM WTR	ORPAH-SIM-LVI-LL STORM WTR		2/4/2014	2/6/2014	L59595-1
WG130954-4	MSD		ORPAH-SIM-LVI-LL STORM WTR	ORPAH-SIM-LVI-LL STORM WTR		2/4/2014	2/6/2014	WG130954-3 L59595-1

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

Workgroup: WG126438 (toc/doc) Run ID: R187520

MB:WG126438-1 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:WG126438-2 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	10.1	101		85--115

SB:WG126438-3 MB:WG126438-1 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	10.4	104		80--120

LD:WG126438-4 L57683-5 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	0.5	<MDL			0--20

MS:WG126438-5 L57686-1 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	0.62	10	10.7	101		75--125

MB:WG126438-6 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:WG126438-7 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:WG126438-8 MB:WG126438-6 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	9.77	98		80--120

LD:WG126438-9 L57686-5 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	0.55	<MDL			0--20

MS:WG126438-10 L57686-6 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	<MDL	10	9.79	98		75--125

LD:WG126438-11 L57715-1 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	1.31	1.38	5		0--20

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

MS:WG126438-12 L57751-1 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	1.56	10	12.2	106		75--125
MB:WG126438-13 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:WG126438-14 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	11	110			85--115
MS:WG126438-15 L57672-5 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	25	50	mg/L	336	10	838	100		75--125
LD:WG126438-16 L57672-7 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	2.5	5	mg/L	14.3	13.4	6			0--20
MS:WG126438-17 L57660-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421250ON Pkey:STD (Matrix Spike)									
Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.33	10	11.2	99		75--125
MB:WG126438-18 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:WG126438-19 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	9.86	99			85--115
SB:WG126438-20 MB:WG126438-18 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	9.3	93		80--120
LD:WG126438-21 L57715-1 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	0.86	0.96				0--20
MS:WG126438-22 L57715-1 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	0.86	10	10.5	97		75--125

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

MB:WG126438-23 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	

MB:WG126438-24 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	

MS:WG126438-25 L57660-3 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:421250ON Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.5	10	12.3	108		75-125

LD:WG126438-26 L57661-2 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:421250ON Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.08	1.02	5		0--20

MB:WG126438-27 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:WG126438-28 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	10.1	101		85--115

LD:WG126438-29 L57661-3 Matrix: SALT WTR Listtype:CVTOC Method:SM5310-B Project:421250ON Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.75	1.73	1		0--20

SB:WG126438-30 MB:WG126438-27 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	9.35	93		80-120

LD:WG126438-31 L57719-9 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	2.45	2.58	5		0--20

MS:WG126438-32 L57719-11 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	2.8	10	11.3	85		75-125

Workgroup: WG126534 (toc/doc) Run ID: R187680

MB:WG126534-1 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 Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

LCS:WG126534-2 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	9.61	96		85--115

SB:WG126534-3 MB:WG126534-1 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	9.97	100		80--120

LD:WG126534-4 L57724-6 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	<MDL	<MDL			0--20

MS:WG126534-5 L57753-2 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	<MDL	10	9.76	98		75--125

MB:WG126534-6 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	

LCS:WG126534-7 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	9.79	98		85--115

SB:WG126534-8 MB:WG126534-6 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:WG126534-9 L57772-1 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	1.09	1	8		0--20

MS:WG126534-10 L57772-1 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	1.09	10	11.3	102		75--125

MB:WG126534-11 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:WG126534-12 L57794-1 Matrix: BLANK 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	<MDL	<MDL			0--20

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

MS:WG126534-13 L57794-1 Matrix: BLANK 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	<MDL	10	10.7	107		75--125
MB:WG126534-14 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:WG126534-15 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:WG126534-16 MB:WG126534-14 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	100		80--120
LD:WG126534-17 L57772-1 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	1.09	1.14	4			0--20
MS:WG126534-18 L57772-1 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	1.09	10	10.9	98		75--125
LD:WG126534-19 L57794-1 Matrix: BLANK 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	<MDL	<MDL				0--20
MS:WG126534-20 L57794-1 Matrix: BLANK 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	<MDL	10	9.25	93		75--125
Workgroup: WG127792 (toc/doc) Run ID: R189206									
MB:WG127792-1 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:WG127792-2 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	9.07	91			85--115
SB:WG127792-3 MB:WG127792-1 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	11.1	111		80--120

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

LD:WG127792-4 L58246-1 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	1.48	1.79	19		0--20

MS:WG127792-5 L58246-1 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	1.48	10	11.4	99		75--125

MB:WG127792-6 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	

LCS:WG127792-7 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	9.53	95		85--115

SB:WG127792-8 MB:WG127792-6 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	9.1	91		80--120

LD:WG127792-9 L58246-1 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	1.55	1.51	3		0--20

MS:WG127792-10 L58246-1 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	1.55	10	10.6	90		75--125

MB:WG127792-11 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:WG127792-12 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:WG127792-13 L58203-1 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	25	50	mg/L	388	370	5		0--20

MS:WG127792-14 L58203-1 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	25	50	mg/L	388	10	903	103		75--125

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

SB:WG127792-15 MB:WG127792-11 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	11.1	111		80-120
LD:WG127792-16 L58200-2 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	0.51	0.52			0--20	
MS:WG127792-17 L58200-2 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	0.51	10	9.59	91		75-125
Workgroup: WG128714 (TOC/DOC) Run ID: R190353									
MB:WG128714-1 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:WG128714-2 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	10.9	109		85--115	
SB:WG128714-3 MB:WG128714-1 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	10.7	107		80-120
LD:WG128714-4 L58628-1 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	0.71	0.73			0--20	
MS:WG128714-5 L58628-1 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	0.71	10	10.3	96		75-125
LD:WG128714-6 L58657-1 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	1.42	1.4	1		0--20	
MS:WG128714-7 L58657-1 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	1.42	10	11.1	97		75-125
LD:WG128714-8 L58598-1 Matrix: EFFLUENT Listtype:CVTOC Method:SM5310-B Project:421937 Pkey:STD (Lab Duplicate)									
Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit	
Total Organic Carbon	2.5	5	mg/L	8.55	8.53	0		0--20	

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

MS:WG128714-9 L58598-1 Matrix: EFFLUENT Listtype:CVTOC Method:SM5310-B Project:421937 Pkey:STD (Matrix Spike)									
Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	2.5	5	mg/L	8.55	10	59.4	102		75--125
LD:WG128714-10 L58623-4 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	50	100	mg/L	546	605	10		0--20	
MS:WG128714-11 L58623-4 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	50	100	mg/L	546	10	1620	107		75--125
MB:WG128714-12 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:WG128714-13 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	9.93	99		85--115	
MB:WG128714-14 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:WG128714-15 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					
SB:WG128714-16 MB:WG128714-15 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	10.4	104		80--120
LD:WG128714-17 L58640-1 Matrix: EFFLUENT Listtype:CVDOC Method:SM5310-B Project:421937 Pkey:STD (Lab Duplicate)									
Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit	
Dissolved Organic Carbon	1	2	mg/L	9.92	9.89	0		0--20	
MS:WG128714-18 L58640-1 Matrix: EFFLUENT Listtype:CVDOC Method:SM5310-B Project:421937 Pkey:STD (Matrix Spike)									
Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	1	2	mg/L	9.92	10	32.9	115		75--125
MB:WG128714-19 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 Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

LCS:WG128714-20 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	9.69	97		85--115

SB:WG128714-21 MB:WG128714-19 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	100		80--120

MB:WG128714-22 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	

LCS:WG128714-23 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	9.93	99		85--115

SB:WG128714-24 MB:WG128714-22 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:WG128714-25 L58657-1 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	2.59	2.48	4		0--20

MS:WG128714-26 L58657-1 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	2.59	10	12.6	100		75--125

LD:WG128714-27 L58306-1 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	7.72	7.83	1		0--20

MS:WG128714-28 L58306-1 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	7.72	10	17.5	98		75--125

Workgroup: WG128850 (TOC,DOC) Run ID: R190496

MB:WG128850-1 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:WG128850-2 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	10.1	101		85--115

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

SB:WG128850-3 MB:WG128850-1 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	9.93	99		80-120

LD:WG128850-4 L58645-3 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	3.41	3.36	1		0--20

MS:WG128850-5 L58645-3 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	3.41	10	12.8	94		75-125

LD:WG128850-6 L58688-2 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	0.55	0.64			0--20

MS:WG128850-7 L58688-2 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	0.55	10	10.3	98		75-125

MB:WG128850-8 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:WG128850-9 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 Carbon	0.5	1	mg/L	10	9.93	99		85--115

MB:WG128850-10 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	

SB:WG128850-11 MB:WG128850-10 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	9.81	98		80-120

LD:WG128850-12 L58708-1 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	1.08	1.06	2		0--20

MS:WG128850-13 L58708-1 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	1.08	10	10.7	96		75-125

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

Workgroup: WG129096 (toc/doc) Run ID: R190925

MB:WG129096-1 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:WG129096-2 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	9.69	97		85--115

SB:WG129096-3 MB:WG129096-1 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	100		80--120

MS:WG129096-4 L58594-1 Matrix: SALT WTR Listtype:CVTOC Method:SM5310-B Project:4212500N Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.28	10	10.5	92		75--125

MB:WG129096-5 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	

LD:WG129096-6 L58593-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:4212500N Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.44	1.34	7		0--20

LCS:WG129096-7 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	10.7	107		85--115

MB:WG129096-8 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	

SB:WG129096-9 MB:WG129096-8 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 Carbon	0.5	1	mg/L	<MDL	10	10.2	102		80--120

LD:WG129096-10 L58795-1 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	5	10	mg/L	15	13.8	8		0--20

MS:WG129096-11 L58795-1 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	5	10	mg/L	15	10	102	87		75--125

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC and TOC - Part 1

LCS:WG129096-12 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 Carbon	0.5	1	mg/L	10	9.13	91		85--115

MB:WG129096-13 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:WG129096-14 L58593-2 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:421250ON Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.58	1.59	1		0--20

MS:WG129096-15 L58594-2 Matrix: SALT WTR Listtype:CVDOC Method:SM5310-B Project:421250ON Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.23	10	10.9	96		75--125

Workgroup: WG129092 (toc) Run ID: R190766

MB:WG129092-1 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:WG129092-2 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	10.1	101		85--115

SB:WG129092-3 MB:WG129092-1 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

MB:WG129092-4 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:WG129092-5 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	10.3	103		85--115

SB:WG129092-6 MB:WG129092-4 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

MB:WG129092-7 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	

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LCS:WG129092-8 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	10.4	104		85--115

SB:WG129092-9 MB:WG129092-7 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	10.8	108		80--120

LD:WG129092-10 L58651-3 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	2.5	5	mg/L	15	15.7	5		0--20

MS:WG129092-11 L58651-3 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	2.5	5	mg/L	15	10	67.5	105		75--125

LD:WG129092-12 L58232-3 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHSW-A5-TD Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	2.5	5	mg/L	19.5	20.7	6		0--20

MS:WG129092-13 L58232-3 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421422-CHSW-A5-TD Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	2.5	5	mg/L	19.5	10	72.9	107		75--125

LD:WG129092-14 L58795-2 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	10	20	mg/L	98.8	99.4	1		0--20

MS:WG129092-15 L58795-2 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	10	20	mg/L	98.8	10	309	105		75--125

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC & TOC - Part 2

King County Environmental Laboratory
LIMSView QC Report - 05/15/14 11:44

Workgroup: WG129192 (toc,doc) Run ID: R191013

MB:WG129192-1 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:WG129192-2 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:WG129192-3 MB:WG129192-1 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	10.4	104		80--120

LD:WG129192-4 L58636-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-VAGW Pkey:STD (Lab Duplicate)

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

MS:WG129192-5 L58636-1 Matrix: GRND WTR Listtype:CVTOC Method:SM5310-B Project:421422-VAGW Pkey:STD (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	<MDL	10	10.9	109		75--125

LD:WG129192-6 L58861-3 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	2.14	2.27	6		0--20

MS:WG129192-7 L58861-3 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	2.14	10	12.1	99		75--125

LD:WG129192-8 L58466-3 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	5	10	mg/L	12.1	12.4	2		0--20

MS:WG129192-9 L58466-3 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	5	10	mg/L	12.1	10	115	103		75--125

MB:WG129192-10 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	

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LCS:WG129192-11 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	10.2	102	85--115

SB:WG129192-12 MB:WG129192-10 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:WG129192-13 L58826-1 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	5	10	mg/L		20.1	19	6	0--20

MS:WG129192-14 L58826-1 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	5	10	mg/L		20.1	10	118	98	75--125

MB:WG129192-15 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:WG129192-16 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	9.98	100	85--115

LD:WG129192-17 L58842-3 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		17.4	16.6	5	0--20

MS:WG129192-18 L58842-3 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		17.4	10	118	101	75--125

MB:WG129192-19 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	

LCS:WG129192-20 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

SB:WG129192-21 MB:WG129192-19 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	11.7	117	80--120

LD:WG129192-22 L58861-2 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD

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(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.84	1.85		1	0--20

MS:WG129192-23 L58861-2 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 Carbon	0.5	1	mg/L	1.84	10	12.1	103		75--125

MB:WG129192-24 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:WG129192-25 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	10.4	104		85--115

MB:WG129192-26 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:WG129192-27 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

SB:WG129192-28 MB:WG129192-26 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:WG129192-29 L58855-1 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	2.47	10	12.5	100		75--125

LD:WG129192-30 L58855-1 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	2.47	2.34	5		0--20

MB:WG129192-31 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:WG129192-32 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

SB:WG129192-33 MB:WG129192-31 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
(Spike Blank, Method Blank)

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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:WG129192-34 L58826-3 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	84.3	92	9	0--20	

MS:WG129192-35 L58826-3 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	84.3	10	423	113		75--125

Workgroup: WG129586 (toc) Run ID: R191626

MB:WG129586-1 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:WG129586-2 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	9.83	98		85--115

SB:WG129586-3 MB:WG129586-1 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	9.53	95	80--120

LD:WG129586-4 L58899-6 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	1.23	1.25	1	0--20	

MS:WG129586-5 L58899-6 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	1.23	10	10.9	97		75--125

MB:WG129586-6 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:WG129586-7 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	9.83	98		85--115

SB:WG129586-8 MB:WG129586-6 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	9.58	96	80--120

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LD:WG129586-9 L58949-8 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	4.68	4.72		1	0--20

MS:WG129586-10 L58949-8 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	4.68	10	15.7	110		75--125

MB:WG129586-11 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:WG129586-12 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:WG129586-13 MB:WG129586-11 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

MB:WG129586-14 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:WG129586-15 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:WG129586-16 MB:WG129586-14 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

LCS:WG129586-17 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	9.87	99		85--115

SB:WG129586-18 MB:WG129586-19 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

MB:WG129586-19 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	

MB:WG129586-20 Matrix: BLANK WTR Listtype:CVDOC Method:SM5310-B Project: Pkey:STD

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(Method Blank)

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

LD:WG129586-21 L58993-3 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	5	10	mg/L	56.8	56.6	0	0-20	

MS:WG129586-22 L58993-3 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	5	10	mg/L	56.8	10	151	95		75--125

LD:WG129586-23 L59024-1 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	18	35	mg/L	73	80.3	10	0-20	

MS:WG129586-24 L59024-1 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	18	35	mg/L	73	10	373	86		75--125

MB:WG129586-25 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:WG129586-26 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

LD:WG129586-27 L58951-6 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	0.95	0.91	0-20		

MS:WG129586-28 L58951-6 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	0.95	10	10.7	97		75--125

MS:WG129586-29 L58758-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421250ON Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.38	10	12.6	112		75--125

LD:WG129586-30 L58759-3 Matrix: SALT WTR Listtype:CVTOC Method:SM5310-B Project:421250ON Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L	1.27	1.41	10	0-20	

LD:WG129586-31 L58976-2 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD
(Lab Duplicate)

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Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.03	1.04	1		0-20

MS:WG129586-32 L58976-2 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	1.03	10	11.1	101		75-125

MB:WG129586-33 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	

MS:WG129586-34 L58758-2 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:421250ON Pkey:STD (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.5	10	12.2	107		75-125

LD:WG129586-35 L58759-1 Matrix: SALT WTR Listtype:CVDOC Method:SM5310-B Project:421250ON Pkey:STD (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.26	1.33	5		0-20

Workgroup: WG129830 (toc) Run ID: R191994

MB:WG129830-1 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:WG129830-2 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	9.62	96		85-115

SB:WG129830-3 MB:WG129830-1 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	9.45	95		80-120

LD:WG129830-4 L59148-3 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	1.08	1.08	0		0-20

MS:WG129830-5 L59148-3 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	1.08	10	10.7	96		75-125

MB:WG129830-6 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	

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LCS:WG129830-7 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	9.6	96	85--115

SB:WG129830-8 MB:WG129830-6 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	9.82	98	80--120

LD:WG129830-9 L59148-2 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		1.43	1.24	14	0--20

MS:WG129830-10 L59148-2 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 Carbon	0.5	1	mg/L		1.43	10	10.9	95	75--125

MB:WG129830-11 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:WG129830-12 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:WG129830-13 L59105-1 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	<MDL		0--20	

MS:WG129830-14 L59105-1 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	<MDL		10	9.99	100	75--125

Workgroup: WG130020 (toc/doc) Run ID: R192078

MB:WG130020-1 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:WG130020-2 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:WG130020-3 MB:WG130020-1 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
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LIMSView QC Report for Upper Green River Water Sampling - Data Validation for DOC & TOC - Part 2

Total Organic Carbon 0.5 1 mg/L <MDL 10 9.81 98 80--120

LD:WG130020-4 L59132-3 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	<MDL	<MDL				0-20

MS:WG130020-5 L59132-3 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	<MDL		10	9.63	96		75--125

MB:WG130020-6 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:WG130020-7 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	9.11	91		85--115

SB:WG130020-8 MB:WG130020-6 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	9.41	94		80--120

MB:WG130020-9 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:WG130020-10 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	9.41	94		85--115

SB:WG130020-11 MB:WG130020-9 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	9.79	98		80--120

LD:WG130020-12 L59240-1 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		2.16	2.1	3		0-20

MS:WG130020-13 L59240-1 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		2.16	10	11.5	93		75--125

LD:WG130020-14 L59141-1 Matrix: FRESH WTR Listtype:CVTOC Method:SM5310-B Project:421250ON Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Organic Carbon	0.5	1 mg/L		2.04	2.41	16		0-20

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MS:WG130020-15 L59142-3 Matrix: SALT WTR Listtype:CVTOC Method:SM5310-B Project:421250ON Pkey:STD (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Total Organic Carbon	0.5	1	mg/L		1.98	10	12.7	108	75--125

MB:WG130020-16 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	

LD:WG130020-17 L59141-2 Matrix: FRESH WTR Listtype:CVDOC Method:SM5310-B Project:421250ON Pkey:STD (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L		1.86	1.95	5	0--20

MS:WG130020-18 L59142-2 Matrix: SALT WTR Listtype:CVDOC Method:SM5310-B Project:421250ON Pkey:STD (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L		1.33	10	11.6	102	75--125

MB:WG130020-19 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:WG130020-20 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	9.23	92	85--115

LD:WG130020-21 L59187-1 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	<MDL		0.52		0--20

MS:WG130020-22 L59187-1 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	<MDL		10	9.04	90	75--125

LD:WG130020-23 L59241-3 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	13	25	mg/L		82.4	69.4	17	0--20

MS:WG130020-24 L59241-3 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	13	25	mg/L		82.4	10	292	84	75--125

Workgroup: WG130703 (TOC, DOC/421422, 423589) Run ID: R193206

MB:WG130703-1 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD (Method Blank)

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

LCS:WG130703-2 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 10 100 85--115

SB:WG130703-3 MB:WG130703-1 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 9.9 99 80--120

LD:WG130703-4 L59422-6 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 <MDL <MDL 0--20

MS:WG130703-5 L59422-6 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 <MDL 10 10.3 103 75--125

MB:WG130703-6 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:WG130703-7 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 10.5 105 85--115

LD:WG130703-8 L59481-1 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 0.73 0.71 0--20

MS:WG130703-9 L59481-1 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 0.73 10 11.2 105 75--125

LD:WG130703-10 L59470-2 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 1.05 0.97 8 0--20

MS:WG130703-11 L59470-2 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 1.05 10 11.5 104 75--125

MB:WG130703-12 Matrix: BLANK WTR Listtype:CVTOC Method:SM5310-B Project: Pkey:STD
 (Method Blank)

Parameter MDL RDL Units MB Value Qual

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Total Organic Carbon 0.5 1 mg/L <MDL

LCS:WG130703-13 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	11	110		85--115

MB:WG130703-14 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		

SB:WG130703-15 MB:WG130703-14 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	10.4	104		80--120

LCS:WG130703-16 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	10.9	109		85--115

LD:WG130703-17 L59471-1 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	0.5	1 mg/L		3.99	4.15	4		0--20

MS:WG130703-18 L59471-1 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		3.99	10	14.8	108		75--125

MB:WG130703-19 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:WG130703-20 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

SB:WG130703-21 MB:WG130703-19 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	10.9	109		80--120

LD:WG130703-22 L59425-3 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		30.7	36.8	18		0--20

MS:WG130703-23 L59425-3 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		30.7	10	133	102		75--125

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Workgroup: WG131067 (TOC, DOC/421422, 423589-330-4) Run ID: R193589

MB:WG131067-1 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	

SB:WG131067-2 MB:WG131067-1 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	9.89	99		80--120

LCS:WG131067-3 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	9.9	99		85--115

LD:WG131067-4 L59492-6 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	<MDL	<MDL			0--20

MS:WG131067-5 L59492-6 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	<MDL	10	10	100		75--125

LD:WG131067-6 L59595-1 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	1.08	1.01	7		0--20

MS:WG131067-7 L59595-1 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	1.08	10	12	109		75--125

MB:WG131067-8 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	

SB:WG131067-9 MB:WG131067-8 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 Carbon	0.5	1	mg/L	<MDL	10	10	100		80--120

LCS:WG131067-10 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	10.2	102		85--115

LD:WG131067-11 L59595-1 Matrix: STORM WTR Listtype:CVDOC Method:SM5310-B Project:423589-330-4 Pkey:STD (Lab Duplicate)

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Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Dissolved Organic Carbon	0.5	1	mg/L	1.23	1.2	2		0-20

MS:WG131067-12 L59595-1 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	1.23	10	11.8	106		75-125

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for TSS - Part 1

Workgroup: WG126266 (tss for 423589) Run ID: R187360

MB:WG126266-1 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:WG126266-2 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:WG126266-3 L57715-1 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	1.6	1.6			0--25

Workgroup: WG126335 (TSS FOR ASSORTED PROJECTS) Run ID: R187440

MB:WG126335-1 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:WG126335-2 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	91	91		80--120

LD:WG126335-3 L57175-2 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	<MDL	<MDL			0--25

LD:WG126335-4 L57550-3 Matrix: IW WTR Listtype:CVTSS Method:SM2540-D Project:421161 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	20	40	mg/L	784	828	5		0--25

LD:WG126335-5 L57675-2 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	5.8	5	15		0--25

LD:WG126335-6 L57682-2 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	50	100	mg/L	590	610	3		0--25

MB:WG126335-7 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 Upper Green River Water Sampling - Data Validation for TSS - Part 1

LCS:WG126335-8 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD (Lab Control Sample)							
Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual
Total Suspended Solids	5	10	mg/L	100	95	95	LabLimit 80--120
MB:WG126335-9 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:WG126335-10 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD (Lab Control Sample)							
Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual
Total Suspended Solids	5	10	mg/L	100	110	110	LabLimit 80--120
LD:WG126335-11 L57733-2 Matrix: IW WTR Listtype:CVTSS Method:SM2540-D Project:421161 Pkey:STD (Lab Duplicate)							
Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual
Total Suspended Solids	100	200	mg/L	2180	2260	4	LabLimit 0--25
LD:WG126335-12 L57751-1 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
Total Suspended Solids	1	2	mg/L	1.2	1		LabLimit 0--25
Workgroup: WG126514 (tss for 421195/421874/421422/423589) Run ID: R187668							
MB:WG126514-1 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:WG126514-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD (Lab Control Sample)							
Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual
Total Suspended Solids	5	10	mg/L	100	90	90	LabLimit 80--120
LD:WG126514-3 L57173-2 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
Total Suspended Solids	1	2	mg/L	<MDL	1.8		LabLimit 0--25
LD:WG126514-4 L57629-2 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421874-100 Pkey:STD (Lab Duplicate)							
Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual
Total Suspended Solids	1	2	mg/L	2.8	2.8	0	LabLimit 0--25
LD:WG126514-5 L57725-2 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
Total Suspended Solids	1	2	mg/L	<MDL	1		LabLimit 0--25
LD:WG126514-6 L57772-1 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
Total Suspended Solids	1	2	mg/L	1.6	2		LabLimit 0--25

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for TSS - Part 1

Workgroup: WG127813 (tss for 421422/421235/421161) Run ID: R189480

MB:WG127813-1 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:WG127813-2 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	82	82		80--120

LD:WG127813-3 L58235-1 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

LD:WG127813-4 L58246-1 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	1.8	2			0--25

LD:WG127813-5 L58249-1 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	1.4	1.4			0--25

MB:WG127813-6 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:WG127813-7 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	83	83		80--120

LD:WG127813-8 L58249-21 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

Workgroup: WG128877 (tss for 421422/423589) Run ID: R190699

MB:WG128877-1 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:WG128877-2 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	98	98		80--120

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LD:WG128877-3 L58647-1 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	<MDL	<MDL			0--25

LD:WG128877-4 L58688-2 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	<MDL	<MDL			0--25

Workgroup: WG128948 (TSS) Run ID: R190603

MB:WG128948-1 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:WG128948-2 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:WG128948-3 L58628-1 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	<MDL	<MDL			0--25

LD:WG128948-4 L58639-1 Matrix: EFFLUENT Listtype:CVTSS Method:SM2540-D Project:421937 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

LD:WG128948-5 L58657-1 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	<MDL	<MDL			0--25

Workgroup: WG129042 (tss for 421422) Run ID: R190848

MB:WG129042-1 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:WG129042-2 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:WG129042-3 L58689-1 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	<MDL	<MDL			0--25

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LD:WG129042-4 L58703-1 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	2.5	5	mg/L	6.5	5.5	17		0--25

LD:WG129042-5 L58751-3 Matrix: SALT WTR Listtype:CVTSS Method:SM2540-D Project:421250BS Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	20	mg/L	5.2	4			0--25

LD:WG129042-6 L58791-1 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	2	2.2	10		0--25

MB:WG129042-7 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:WG129042-8 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	100	100		80--120

LD:WG129042-9 L58795-1 Matrix: SEWER WTR Listtype:CVTSS Method:SM2540-D Project:423589-320-4 Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	10	20	mg/L	304	268	13		0--25

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for TSS - Part 2

King County Environmental Laboratory
LIMSView QC Report - 05/15/14 02:28

Workgroup: WG129227 (tss for 421422/421194/423589) Run ID: R191069

MB:WG129227-1 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:WG129227-2 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:WG129227-3 L58466-3 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	142	143	1		0--25

LD:WG129227-4 L58660-3 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	5	10	mg/L	38	37	3		0--25

LD:WG129227-5 L58855-1 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	1.2	<MDL			0--25

LD:WG129227-6 L58861-2 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	<MDL	1.6			0--25

Workgroup: WG129494 (tss for 421874/423589) Run ID: R191605

MB:WG129494-1 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:WG129494-2 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	87	87		80--120

LD:WG129494-3 L58699-2 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421874-100 Pkey:STD (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	1.4	1.4			0--25

LD:WG129494-4 L58976-2 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:423589-330-4 Pkey:STD (Lab Duplicate)

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

LD:WG129494-5 L58994-2 Matrix: FILTER WTR Listtype:CVTSS Method:SM2540-D Project:423589-335-4 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

Workgroup: WG129769 (tss for 421240/421422/423589) Run ID: R192032

MB:WG129769-1 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:WG129769-2 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:WG129769-3 L58952-1 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	10.8	11.4	5		0--25

LD:WG129769-4 L59043-1 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421240A Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	3.2	2.8	13		0--25

MB:WG129769-5 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:WG129769-6 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	92	92		80--120

LD:WG129769-7 L59148-1 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	<MDL	<MDL			0--25

Workgroup: WG129814 (TSS/421195, 423589) Run ID: R191955

MB:WG129814-1 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:WG129814-2 Matrix: BLANK WTR Listtype:CVTSS Method:SM2540-D Project: Pkey:STD
(Lab Control Sample)

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Parameter	MDL	RDL	Units	TrueValue	LCS Value	% Rec.	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	100	99	99		80--120

LD:WG129814-3 L58915-2 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:421195-450 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	2	4	mg/L	38	34.4	10		0--25

LD:WG129814-4 L59046-1 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	2	mg/L	4.6	5.2	12		0--25

MB:WG129814-5 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:WG129814-6 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	99	99		80--120

LD:WG129814-7 L59149-1 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	5.6	5	11		0--25

Workgroup: WG129970 (tss for 422019/421195/423589) Run ID: R192079

MB:WG129970-1 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:WG129970-2 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	91	91		80--120

LD:WG129970-3 L59045-2 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	12.4	10	21		0--25

LD:WG129970-4 L59212-4 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	2	mg/L	5	5.2	4		0--25

LD:WG129970-5 L59241-1 Matrix: STORM WTR Listtype:CVTSS Method:SM2540-D Project:423589-320-4 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	5	10	mg/L	195	204	5		0--25

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MB:WG129970-6 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:WG129970-7 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	91	91		80--120

Workgroup: WG130655 (tss for 421240/421422/423589) Run ID: R193096

MB:WG130655-1 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:WG130655-2 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:WG130655-3 L59427-2 Matrix: FRESH WTR Listtype:CVTSS Method:SM2540-D Project:421240A Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	9	10.2	13		0--25

LD:WG130655-4 L59435-1 Matrix: GRND WTR Listtype:CVTSS Method:SM2540-D Project:421422-CHGW-NP Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	1	2	mg/L	3.2	4	22		0--25

LD:WG130655-5 L59470-1 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	9.8	10.2	4		0--25

Workgroup: WG130893 (IW TSS) Run ID: R193454

MB:WG130893-1 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:WG130893-2 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	96	96		80--120

LD:WG130893-3 L59583-1 Matrix: IW WTR Listtype:CVTSS Method:SM2540-D Project:421161 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	50	100	mg/L	2340	2370	1		0--25

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LD:WG130893-4 L59569-2 Matrix: IW WTR Listtype:CVTSS Method:SM2540-D Project:421183 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Total Suspended Solids	14	29	mg/L	263	234	11		0--25

MB:WG130893-5 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:WG130893-6 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	92	92		80--120

LD:WG130893-7 L59595-1 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	6.6	7	6		0--25

Workgroup: WG129366 (LDW Upper Green 10/1/13) Run ID: R191113

No QC sample found for this workgroup

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If the following parameters are reported, values in the RPD column are actually Absolute Differences:

- pH, Field
- Salinity, Field
- Sample Depth
- Sample Temperature, Field

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for As and PAHs - Part 1

Workgroup: WG126592 (4/30/13 As totals) Run ID: R187741

MB:WG126592-1 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:WG126592-2 MB:WG126592-1 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	100		85--115

LD:WG126592-3 L57751-1 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	0.27	0.28			0--20

MS:WG126592-4 L57751-1 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	0.27	20	20.4	100		75--125

Workgroup: WG128003 (7/26/13 MISC TOTALS) Run ID: R189646

MB:WG128003-1 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	kg CaCO ₃	<MDL	

MB:WG128003-1 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	

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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	0.52	B				
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:WG128003-2 MB:WG128003-1 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	<MDL	33.1	32.7	99		85--115

SB:WG128003-2 MB:WG128003-1 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	100		85--115
Sodium, Total, ICP-MS	100	100	ug/L	<MDL	5000	4920	98		85--115
Magnesium, Total, ICP-MS	50	50	ug/L	<MDL	5000	5020	100		85--115
Aluminum, Total, ICP-MS	2	10	ug/L	<MDL	20	20.5	103		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	4820	96		85--115
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	<MDL	20	19	95		85--115
Chromium, Total, ICP-MS	0.2	1	ug/L	<MDL	20	19.4	97		85--115
Iron, Total, ICP-MS	10	50	ug/L	<MDL	5000	5050	101		85--115
Manganese, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.7	98		85--115
Cobalt, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.9	99		85--115
Nickel, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.2	101		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	20.5	102		85--115
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.6	98		85--115
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	20	20.4	102		85--115
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	19.4	97		85--115
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.8	99		85--115
Tin, Total, ICP-MS	0.3	1.5	ug/L	0.52	20	19	92		85--115
Antimony, Total, ICP-MS	0.3	1	ug/L	<MDL	20	18.6	93		85--115
Barium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.2	96		85--115
Thallium, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.5	103		85--115
Lead, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.1	101		85--115

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LD:WG128003-3 L58307-1 Matrix: FRESH WTR Listtype:MTHARD-ICPMS Method:EPA 200.8/SW846 6020A*SM2340B Project:421422-CFSW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Hardness, Calc	0.331	0.331	ug CaCO ₃	34.8	34.8	0		0--20

LD:WG128003-3 L58307-1 Matrix: FRESH WTR Listtype:MTICPMS 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, Total, ICP-MS	0.1	0.5	ug/L	<MDL	<MDL			0--20
Sodium, Total, ICP-MS	100	100	ug/L	4290	4300	0		0--20
Magnesium, Total, ICP-MS	50	50	ug/L	3300	3240	2		0--20
Aluminum, Total, ICP-MS	2	10	ug/L	1130	985	14		0--20
Potassium, Total, ICP-MS	100	500	ug/L	200	190			0--20
Calcium, Total, ICP-MS	50	50	ug/L	8490	8590	1		0--20
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	2.28	2.07	10		0--20
Chromium, Total, ICP-MS	0.2	1	ug/L	2.94	2.59	13		0--20
Iron, Total, ICP-MS	10	50	ug/L	860	749	14		0--20
Manganese, Total, ICP-MS	0.1	0.5	ug/L	34.3	33	4		0--20
Cobalt, Total, ICP-MS	0.05	0.25	ug/L	0.463	0.407	13		0--20
Nickel, Total, ICP-MS	0.1	0.5	ug/L	1.43	1.23	15		0--20
Copper, Total, ICP-MS	0.4	2	ug/L	1.5	1.4			0--20
Zinc, Total, ICP-MS	0.5	2.5	ug/L	2.68	2.3	14		0--20
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.47	0.43			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	8.24	8	3		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	0.631	0.613	3		0--20

MS:WG128003-4 L58307-1 Matrix: FRESH WTR Listtype:MTHARD-ICPMS Method:EPA 200.8/SW846 6020A*SM2340B Project:421422-CFSW Pkey:STD
 (Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Hardness, Calc	0.331	0.331	ug CaCO ₃	34.8	33.1	66.9	97		75--125

MS:WG128003-4 L58307-1 Matrix: FRESH WTR Listtype:MTICPMS 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, Total, ICP-MS	0.1	0.5	ug/L	<MDL	20	19.9	100		75--125
Sodium, Total, ICP-MS	100	100	ug/L	4290	5000	9180	98		75--125
Magnesium, Total, ICP-MS	50	50	ug/L	3300	5000	8210	98		75--125
Aluminum, Total, ICP-MS	2	10	ug/L	1130	20	966		4xRule	75--125

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Potassium, Total, ICP-MS	100	500	ug/L	200	5000	4870	94	75--125
Calcium, Total, ICP-MS	50	50	ug/L	8490	5000	13200	95	75--125
Vanadium, Total, ICP-MS	0.075	0.375	ug/L	2.28	20	20.7	92	75--125
Chromium, Total, ICP-MS	0.2	1	ug/L	2.94	20	22	95	75--125
Iron, Total, ICP-MS	10	50	ug/L	860	5000	5640	96	75--125
Manganese, Total, ICP-MS	0.1	0.5	ug/L	34.3	20	52.9	93	75--125
Cobalt, Total, ICP-MS	0.05	0.25	ug/L	0.463	20	19.1	93	75--125
Nickel, Total, ICP-MS	0.1	0.5	ug/L	1.43	20	21.2	99	75--125
Copper, Total, ICP-MS	0.4	2	ug/L	1.5	20	21.2	99	75--125
Zinc, Total, ICP-MS	0.5	2.5	ug/L	2.68	20	21.8	96	75--125
Arsenic, Total, ICP-MS	0.1	0.5	ug/L	0.47	20	19.2	94	75--125
Selenium, Total, ICP-MS	0.5	1	ug/L	<MDL	20	18.6	93	75--125
Silver, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	19.1	95	75--125
Cadmium, Total, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.9	100	75--125
Tin, Total, ICP-MS	0.3	1.5	ug/L	<MDL	20	16.1	81	75--125
Antimony, Total, ICP-MS	0.3	1	ug/L	<MDL	20	18.7	94	75--125
Barium, Total, ICP-MS	0.05	0.25	ug/L	8.24	20	27.1	94	75--125
Thallium, Total, ICP-MS	0.04	0.2	ug/L	<MDL	20	20.7	104	75--125
Lead, Total, ICP-MS	0.1	0.5	ug/L	0.631	20	21.1	102	75--125

Workgroup: WG129200 (10/7/13 AS ONLY) Run ID: R190975

MB:WG129200-1 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:WG129200-2 MB:WG129200-1 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:WG129200-3 L58657-1 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	<MDL	<MDL			0--20

MS:WG129200-4 L58657-1 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	<MDL	20	19.7	98		75--125

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Workgroup: WG126593 (4/30/13 As Diss) Run ID: R187740

MB:WG126593-1 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:WG126593-2 MB:WG126593-1 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	19.9	100		85--115

LD:WG126593-3 L57715-1 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	0.23	0.26			0--20

MS:WG126593-4 L57715-1 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	0.23	20	21	104		75--125

Workgroup: WG127897 (7/19/13 SWD Vashon) Run ID: R189414

MB:WG127897-1 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-N	0.1	0.5	ug/L	<MDL	
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	
Magnesium, Dissolved, ICP	50	50	ug/L	<MDL	
Potassium, Dissolved, ICP-N	100	500	ug/L	<MDL	
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL	
Vanadium, Dissolved, ICP-N	0.075	0.375	ug/L	<MDL	
Chromium, Dissolved, ICP-I	0.2	1	ug/L	<MDL	
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	
Manganese, Dissolved, ICP	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-M	0.5	1	ug/L	<MDL	
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	
Cadmium, Dissolved, ICP-N	0.05	0.25	ug/L	<MDL	

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Antimony, Dissolved, ICP-IV	0.3	1	ug/L	<MDL
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL
Thallium, Dissolved, ICP-M!	0.04	0.2	ug/L	<MDL
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL

SB:WG127897-2 MB:WG127897-1 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-IV	0.1	0.5	ug/L	<MDL	20	20.6	103		85--115
Sodium, Dissolved, ICP-MS	100	100	ug/L	<MDL	5000	5050	101		85--115
Magnesium, Dissolved, ICP	50	50	ug/L	<MDL	5000	5560	111		85--115
Potassium, Dissolved, ICP-N	100	500	ug/L	<MDL	5000	5150	103		85--115
Calcium, Dissolved, ICP-MS	50	50	ug/L	<MDL	5000	5210	104		85--115
Vanadium, Dissolved, ICP-N	0.075	0.375	ug/L	<MDL	20	20.3	101		85--115
Chromium, Dissolved, ICP-I	0.2	1	ug/L	<MDL	20	20.4	102		85--115
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	5000	5120	102		85--115
Manganese, Dissolved, ICP	0.1	0.5	ug/L	<MDL	20	21	105		85--115
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	21.4	107		85--115
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	21.2	106		85--115
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	20	21.2	106		85--115
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	<MDL	20	20.5	103		85--115
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	20.4	102		85--115
Selenium, Dissolved, ICP-M	0.5	1	ug/L	<MDL	20	22	110		85--115
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	22.3	111		85--115
Cadmium, Dissolved, ICP-IV	0.05	0.25	ug/L	<MDL	20	20.7	103		85--115
Antimony, Dissolved, ICP-N	0.3	1	ug/L	<MDL	20	20.1	100		85--115
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	<MDL	20	19.6	98		85--115
Thallium, Dissolved, ICP-M!	0.04	0.2	ug/L	<MDL	20	21.7	108		85--115
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	22.2	111		85--115

LD:WG127897-3 L58197-1 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-CHGW Pkey:STD
 (Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Beryllium, Dissolved, ICP-IV	0.1	0.5	ug/L	<MDL	<MDL			0--20
Sodium, Dissolved, ICP-MS	100	100	ug/L	9470	9440	0		0--20
Magnesium, Dissolved, ICP	50	50	ug/L	19900	20300	2		0--20
Potassium, Dissolved, ICP-N	100	500	ug/L	1880	1860	1		0--20
Calcium, Dissolved, ICP-MS	50	50	ug/L	39300	39300	0		0--20
Vanadium, Dissolved, ICP-N	0.075	0.375	ug/L	1.87	1.89	1		0--20
Chromium, Dissolved, ICP-I	0.2	1	ug/L	<MDL	<MDL			0--20
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	<MDL			0--20
Manganese, Dissolved, ICP	0.1	0.5	ug/L	293	290	1		0--20
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	0.871	0.969	11		0--20
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	0.3	0.29			0--20

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Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	<MDL		0--20
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	8.46	8.53	1	0--20
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	1.44	1.42	1	0--20
Selenium, Dissolved, ICP-M	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-IV	0.05	0.25	ug/L	<MDL	<MDL		0--20
Antimony, Dissolved, ICP-IV	0.3	1	ug/L	<MDL	<MDL		0--20
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	8.92	8.89	0	0--20
Thallium, Dissolved, ICP-M!	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:WG127897-4 L58197-1 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:421422-CHGW Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Beryllium, Dissolved, ICP-IV	0.1	0.5	ug/L	<MDL	20	20.3	101		75--125
Sodium, Dissolved, ICP-MS	100	100	ug/L	9470	5000	14400	100		75--125
Magnesium, Dissolved, ICP	50	50	ug/L	19900	5000	24900	100		75--125
Potassium, Dissolved, ICP-I	100	500	ug/L	1880	5000	6520	93		75--125
Calcium, Dissolved, ICP-MS	50	50	ug/L	39300	5000	44100		4xRule	75--125
Vanadium, Dissolved, ICP-N	0.075	0.375	ug/L	1.87	20	21.6	99		75--125
Chromium, Dissolved, ICP-I	0.2	1	ug/L	<MDL	20	19.4	97		75--125
Iron, Dissolved, ICP-MS	10	50	ug/L	<MDL	5000	5050	101		75--125
Manganese, Dissolved, ICP	0.1	0.5	ug/L	293	20	313		4xRule	75--125
Cobalt, Dissolved, ICP-MS	0.05	0.25	ug/L	0.871	20	22.1	106		75--125
Nickel, Dissolved, ICP-MS	0.1	0.5	ug/L	0.3	20	20.3	100		75--125
Copper, Dissolved, ICP-MS	0.4	2	ug/L	<MDL	20	19.4	97		75--125
Zinc, Dissolved, ICP-MS	0.5	2.5	ug/L	8.46	20	28.8	102		75--125
Arsenic, Dissolved, ICP-MS	0.1	0.5	ug/L	1.44	20	22.5	105		75--125
Selenium, Dissolved, ICP-M	0.5	1	ug/L	<MDL	20	21.8	109		75--125
Silver, Dissolved, ICP-MS	0.04	0.2	ug/L	<MDL	20	21.5	108		75--125
Cadmium, Dissolved, ICP-IV	0.05	0.25	ug/L	<MDL	20	20.5	103		75--125
Antimony, Dissolved, ICP-IV	0.3	1	ug/L	<MDL	20	20.6	103		75--125
Barium, Dissolved, ICP-MS	0.05	0.25	ug/L	8.92	20	29.3	102		75--125
Thallium, Dissolved, ICP-M!	0.04	0.2	ug/L	<MDL	20	21.2	106		75--125
Lead, Dissolved, ICP-MS	0.1	0.5	ug/L	<MDL	20	21.4	107		75--125

Workgroup: WG129229 (10/8/13 As Only Diss) Run ID: R190976

MB:WG129229-1 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	

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SB:WG129229-2 MB:WG129229-1 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	19.6	98		85--115

LD:WG129229-3 L58657-1 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	<MDL	<MDL			0--20

MS:WG129229-4 L58657-1 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	<MDL	20	20.6	103		75--125

Workgroup: WG126306 (pahll#029 pah-sim-lvi-II) Run ID: R187611

MB:WG126306-1 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	0.0007	0.005	ug/L	0.0012	B
2-Methylnaphthalene	0.0007	0.003	ug/L	<MDL	
Acenaphthylene	0.0003	0.0005	ug/L	<MDL	
Acenaphthene	0.0004	0.0015	ug/L	<MDL	
Fluorene	0.0003	0.001	ug/L	<MDL	
Phenanthrene	0.0002	0.002	ug/L	0.00098	B
Anthracene	0.0003	0.0005	ug/L	<MDL	
Fluoranthene	0.0002	0.001	ug/L	0.00042	B
Pyrene	0.0003	0.001	ug/L	0.00033	B
Benzo(a)anthracene	0.0003	0.0005	ug/L	<MDL	
Chrysene	0.0003	0.0005	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.0004	0.001	ug/L	<MDL	
Dibenz(a,h)anthracene	0.0004	0.001	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	
Total LPAHs	0.0002	0.0005	ug/L	0.00218	
Total HPAHS	0.0002	0.0005	ug/L	0.00075	

SB:WG126306-2 MB:WG126306-1 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	0.0007	0.005	ug/L	0.0012	0.1	0.0678	67		32--110
2-Methylnaphthalene	0.0007	0.003	ug/L	<MDL	0.1	0.0702	70		21--136

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Acenaphthylene	0.0003	0.0005	ug/L	<MDL	0.1	0.0784	78	56--124
Acenaphthene	0.0004	0.0015	ug/L	<MDL	0.1	0.0725	72	45--114
Fluorene	0.0003	0.001	ug/L	<MDL	0.1	0.0816	82	54--122
Phenanthrene	0.0002	0.002	ug/L	0.00098	0.1	0.076	75	57--104
Anthracene	0.0003	0.0005	ug/L	<MDL	0.1	0.0721	72	47--107
Fluoranthene	0.0002	0.001	ug/L	0.00042	0.1	0.0978	97	73--116
Pyrene	0.0003	0.001	ug/L	0.00033	0.1	0.0868	86	66--143
Benzo(a)anthracene	0.0003	0.0005	ug/L	<MDL	0.1	0.0904	90	86--111
Chrysene	0.0003	0.0005	ug/L	<MDL	0.1	0.0949	95	77--111
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	0.2	0.199	100	71--131
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	0.1	0.0753	75	40--135
Indeno(1,2,3-Cd)Pyrene	0.0004	0.001	ug/L	<MDL	0.1	0.0891	89	58--137
Dibenzo(a,h)anthracene	0.0004	0.001	ug/L	<MDL	0.1	0.086	86	61--139
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	0.1	0.0913	91	63--126

MSD:WG126306-4 MS:WG126306-3 L57715-1 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	0.0006	0.0047	ug/L	0.0207	0.0943	0.0729	55		20--90	0.0943	0.0717	54		2		0--40
2-Methylnaphthalene	0.0006	0.0028	ug/L	0.0016	0.0943	0.0608	63		28--97	0.0943	0.0642	66		5		0--40
Acenaphthylene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0713	76		48--107	0.0943	0.0779	83		9		0--40
Acenaphthene	0.0003	0.0014	ug/L	0.00048	0.0943	0.0647	68		38--90	0.0943	0.071	75		9		0--40
Fluorene	0.0002	0.0009	ug/L	0.00064	0.0943	0.0741	78		42--113	0.0943	0.0817	86		10		0--40
Phenanthrene	0.0002	0.0019	ug/L	0.001	0.0943	0.0689	72		51--98	0.0943	0.0754	79		9		0--40
Anthracene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0739	78		49--112	0.0943	0.0804	85		8		0--40
Fluoranthene	0.0002	0.0009	ug/L	0.00042	0.0943	0.0838	88		65--125	0.0943	0.0959	101		13		0--40
Pyrene	0.0002	0.0009	ug/L	<MDL	0.0943	0.0719	76		38--150	0.0943	0.0775	82		8		0--40
Benzo(a)anthracene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0801	85		83--114	0.0943	0.09	95		12		0--40
Chrysene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0841	89		68--115	0.0943	0.0924	98		9		0--40
Benzo(b,j,k)fluoranthene	0.0005	0.0009	ug/L	<MDL	0.189	0.182	97		43--146	0.189	0.2	106		9		0--40
Benzo(a)pyrene	0.0005	0.0009	ug/L	<MDL	0.0943	0.0849	90		27--150	0.0943	0.0917	97		8		0--40
Indeno(1,2,3-Cd)Pyrene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0815	86		20--150	0.0943	0.0932	99		13		0--40
Dibenzo(a,h)anthracene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0776	82		24--150	0.0943	0.0884	94		13		0--40
Benzo(g,h,i)perylene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0843	89		26--140	0.0943	0.0948	101		12		0--40

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	23--124	63--150
L57715-1	70	102
L57751-1	69	100
WG126306-1	81	101
WG126306-2	69	100
WG126306-3	70	94
WG126306-4	73	101

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Workgroup: WG126532 (pahll#030 pah-sim-lvi-ll) Run ID: R187984

MB:WG126532-1 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	0.0007	0.005	ug/L	0.0014	B
2-Methylnaphthalene	0.0007	0.003	ug/L	0.00095	B
Acenaphthylene	0.0003	0.0005	ug/L	<MDL	
Acenaphthene	0.0004	0.0015	ug/L	<MDL	
Fluorene	0.0003	0.001	ug/L	0.00029	B
Phenanthrene	0.0002	0.002	ug/L	0.0013	B
Anthracene	0.0003	0.0005	ug/L	<MDL	
Fluoranthene	0.0002	0.001	ug/L	0.00047	B
Pyrene	0.0003	0.001	ug/L	0.00037	B
Benzo(a)anthracene	0.0003	0.0005	ug/L	<MDL	
Chrysene	0.0003	0.0005	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.0004	0.001	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.0004	0.001	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	
Total LPAHs	0.0002	0.0005	ug/L	0.00299	
Total HPAHS	0.0002	0.0005	ug/L	0.00084	

SB:WG126532-2 MB:WG126532-1 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	0.0007	0.005	ug/L	0.0014	0.1	0.0814	80		32--110
2-Methylnaphthalene	0.0007	0.003	ug/L	0.00095	0.1	0.0848	84		21--136
Acenaphthylene	0.0003	0.0005	ug/L	<MDL	0.1	0.0981	98		56--124
Acenaphthene	0.0004	0.0015	ug/L	<MDL	0.1	0.0914	91		45--114
Fluorene	0.0003	0.001	ug/L	0.00029	0.1	0.0993	99		54--122
Phenanthrene	0.0002	0.002	ug/L	0.0013	0.1	0.0942	93		57--104
Anthracene	0.0003	0.0005	ug/L	<MDL	0.1	0.0959	96		47--107
Fluoranthene	0.0002	0.001	ug/L	0.00047	0.1	0.111	111		73--116
Pyrene	0.0003	0.001	ug/L	0.00037	0.1	0.0986	98		66--143
Benzo(a)anthracene	0.0003	0.0005	ug/L	<MDL	0.1	0.0979	98		86--111
Chrysene	0.0003	0.0005	ug/L	<MDL	0.1	0.101	101		77--111
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	0.2	0.212	106		71--131
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	0.1	0.0919	92		40--135
Indeno(1,2,3-Cd)Pyrene	0.0004	0.001	ug/L	<MDL	0.1	0.0934	93		58--137
Dibenzo(a,h)anthracene	0.0004	0.001	ug/L	<MDL	0.1	0.0898	90		61--139
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	0.1	0.0985	98		63--126

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MSD:WG126532-4 MS:WG126532-3 L57772-1 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	0.0006	0.0047	ug/L	0.0192	0.0943	0.0986	84		20--90	0.0943	0.0625	46		45	*	0--40
2-Methylnaphthalene	0.0006	0.0028	ug/L	0.0013	0.0943	0.0551	57		28--97	0.0943	0.0535	55		3		0--40
Acenaphthylene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0742	79		48--107	0.0943	0.0704	75		5		0--40
Acenaphthene	0.0003	0.0014	ug/L	0.00042	0.0943	0.0681	72		38--90	0.0943	0.065	68		5		0--40
Fluorene	0.0002	0.0009	ug/L	0.00067	0.0943	0.074	78		42--113	0.0943	0.0717	75		3		0--40
Phenanthrene	0.0002	0.0019	ug/L	0.0015	0.0943	0.0747	78		51--98	0.0943	0.0717	74		4		0--40
Anthracene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0776	82		49--112	0.0943	0.0737	78		5		0--40
Fluoranthene	0.0002	0.0009	ug/L	0.00078	0.0943	0.0963	101		65--125	0.0943	0.0958	101		1		0--40
Pyrene	0.0002	0.0009	ug/L	<MDL	0.0943	0.0803	85		38--150	0.0943	0.0805	85		0		0--40
Benzo(a)anthracene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0859	91		83--114	0.0943	0.0865	92		1		0--40
Chrysene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0891	94		68--115	0.0943	0.0895	95		0		0--40
Benzo(b,j,k)fluoranthene	0.0005	0.0009	ug/L	<MDL	0.189	0.191	101		43--146	0.189	0.192	102		1		0--40
Benzo(a)pyrene	0.0005	0.0009	ug/L	<MDL	0.0943	0.0845	90		27--150	0.0943	0.0838	89		1		0--40
Indeno(1,2,3-Cd)Pyrene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0871	92		20--150	0.0943	0.0869	92		0		0--40
Dibenzo(a,h)anthracene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0808	86		24--150	0.0943	0.0791	84		2		0--40
Benzo(g,h,i)perylene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0894	95		26--140	0.0943	0.0884	94		1		0--40

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	23--124	63--150
L57772-1	73	101
L57794-1	59	112
WG126532-1	72	98
WG126532-2	88	108
WG126532-3	69	98
WG126532-4	64	98

Workgroup: WG127806 (pahll#031 pah-sim-lvi-ll) Run ID: R189396

MB:WG127806-1 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	0.0007	0.005	ug/L	0.0011	B
2-Methylnaphthalene	0.0007	0.003	ug/L	0.00091	B
Acenaphthylene	0.0003	0.0005	ug/L	<MDL	
Acenaphthene	0.0004	0.0015	ug/L	<MDL	
Fluorene	0.0003	0.001	ug/L	0.00028	B
Phenanthrene	0.0002	0.002	ug/L	0.0013	B
Anthracene	0.0003	0.0005	ug/L	<MDL	
Fluoranthene	0.0002	0.001	ug/L	0.00056	B
Pyrene	0.0003	0.001	ug/L	0.00037	B
Benzo(a)anthracene	0.0003	0.0005	ug/L	<MDL	

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Chrysene	0.0003	0.0005	ug/L	<MDL
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL
Indeno(1,2,3-Cd)Pyrene	0.0004	0.001	ug/L	<MDL
Dibenzo(a,h)anthracene	0.0004	0.001	ug/L	<MDL
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL
Total LPAHs	0.0002	0.0005	ug/L	0.00268
Total HPAHS	0.0002	0.0005	ug/L	0.00093

SB:WG127806-2 MB:WG127806-1 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	0.0007	0.005	ug/L	0.0011	0.1	0.0733	72		32--110
2-Methylnaphthalene	0.0007	0.003	ug/L	0.00091	0.1	0.088	87		21--136
Acenaphthylene	0.0003	0.0005	ug/L	<MDL	0.1	0.0879	88		56--124
Acenaphthene	0.0004	0.0015	ug/L	<MDL	0.1	0.0818	82		45--114
Fluorene	0.0003	0.001	ug/L	0.00028	0.1	0.0906	90		54--122
Phenanthrene	0.0002	0.002	ug/L	0.0013	0.1	0.0818	81		57--104
Anthracene	0.0003	0.0005	ug/L	<MDL	0.1	0.08	80		47--107
Fluoranthene	0.0002	0.001	ug/L	0.00056	0.1	0.0968	96		73--116
Pyrene	0.0003	0.001	ug/L	0.00037	0.1	0.0841	84		66--143
Benzo(a)anthracene	0.0003	0.0005	ug/L	<MDL	0.1	0.0909	91		86--111
Chrysene	0.0003	0.0005	ug/L	<MDL	0.1	0.0952	95		77--111
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	0.2	0.198	99		71--131
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	0.1	0.0818	82		40--135
Indeno(1,2,3-Cd)Pyrene	0.0004	0.001	ug/L	<MDL	0.1	0.0904	90		58--137
Dibenzo(a,h)anthracene	0.0004	0.001	ug/L	<MDL	0.1	0.0921	92		61--139
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	0.1	0.0932	93		63--126

MSD:WG127806-4 MS:WG127806-3 L58246-1 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	0.0006	0.0047	ug/L	0.0209	0.0943	0.0801	63		20--90	0.0943	0.079	62		1	0--40	
2-Methylnaphthalene	0.0006	0.0028	ug/L	0.0021	0.0943	0.0428	43		28--97	0.0943	0.0534	54		22	0--40	
Acenaphthylene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0498	53		48--107	0.0943	0.0594	63		18	0--40	
Acenaphthene	0.0003	0.0014	ug/L	0.00068	0.0943	0.0466	49		38--90	0.0943	0.0548	57		16	0--40	
Fluorene	0.0002	0.0009	ug/L	0.00088	0.0943	0.0537	56		42--113	0.0943	0.0631	66		16	0--40	
Phenanthrene	0.0002	0.0019	ug/L	0.0017	0.0943	0.0544	56		51--98	0.0943	0.0618	64		13	0--40	
Anthracene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0562	60		49--112	0.0943	0.0627	66		11	0--40	
Fluoranthene	0.0002	0.0009	ug/L	0.00063	0.0943	0.08	84		65--125	0.0943	0.0834	88		4	0--40	
Pyrene	0.0002	0.0009	ug/L	0.00029	0.0943	0.0673	71		38--150	0.0943	0.0689	73		2	0--40	
Benzo(a)anthracene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0826	88		83--114	0.0943	0.079	84		4	0--40	
Chrysene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0854	91		68--115	0.0943	0.0814	86		5	0--40	
Benzo(b,j,k)fluoranthene	0.0005	0.0009	ug/L	<MDL	0.189	0.178	94		43--146	0.189	0.17	90		4	0--40	

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for As and PAHs - Part 1

Benzo(a)pyrene	0.0005	0.0009	ug/L	<MDL	0.0943	0.0831	88	27--150	0.0943	0.0788	84	5	0--40
Indeno(1,2,3-Cd)Pyrene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0822	87	20--150	0.0943	0.0803	85	2	0--40
Dibenzo(a,h)anthracene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0844	89	24--150	0.0943	0.0804	85	5	0--40
Benzo(g,h,i)perylene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0872	92	26--140	0.0943	0.0816	86	7	0--40

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	23--124	63--150
L58246-1	48	95
WG127806-1	71	98
WG127806-2	71	97
WG127806-3	49	89
WG127806-4	52	88

Workgroup: WG128792 (PAHLL#33) Run ID: R190532

MB:WG128792-1 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	0.0007	0.005	ug/L	0.004	B
2-Methylnaphthalene	0.0007	0.003	ug/L	0.0025	B
Acenaphthylene	0.0003	0.0005	ug/L	0.00033	B
Acenaphthene	0.0004	0.0015	ug/L	0.00155	B
Fluorene	0.0003	0.001	ug/L	0.0022	B
Phenanthrene	0.0002	0.002	ug/L	0.00758	B
Anthracene	0.0003	0.0005	ug/L	<MDL	
Fluoranthene	0.0002	0.001	ug/L	0.00255	B
Pyrene	0.0003	0.001	ug/L	0.00134	B
Benzo(a)anthracene	0.0003	0.0005	ug/L	<MDL	
Chrysene	0.0003	0.0005	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.0004	0.001	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.0004	0.001	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	
Total LPAHs	0.0002	0.0005	ug/L	0.01566	
Total HPAHS	0.0002	0.0005	ug/L	0.00389	

SB:WG128792-2 MB:WG128792-1 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	0.0007	0.005	ug/L	0.004	0.1	0.0712	67		32--110
2-Methylnaphthalene	0.0007	0.003	ug/L	0.0025	0.1	0.0777	75		21--136
Acenaphthylene	0.0003	0.0005	ug/L	0.00033	0.1	0.0821	82		56--124
Acenaphthene	0.0004	0.0015	ug/L	0.00155	0.1	0.077	75		45--114

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for As and PAHs - Part 1

Fluorene	0.0003	0.001	ug/L	0.0022	0.1	0.0814	79	54--122
Phenanthrene	0.0002	0.002	ug/L	0.00758	0.1	0.0807	73	57--104
Anthracene	0.0003	0.0005	ug/L	<MDL	0.1	0.0749	75	47--107
Fluoranthene	0.0002	0.001	ug/L	0.00255	0.1	0.0992	97	73--116
Pyrene	0.0003	0.001	ug/L	0.00134	0.1	0.095	94	66--143
Benzo(a)anthracene	0.0003	0.0005	ug/L	<MDL	0.1	0.0873	87	86--111
Chrysene	0.0003	0.0005	ug/L	<MDL	0.1	0.0902	90	77--111
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	0.2	0.191	96	71--131
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	0.1	0.0777	78	40--135
Indeno(1,2,3-Cd)Pyrene	0.0004	0.001	ug/L	<MDL	0.1	0.0903	90	58--137
Dibenz(a,h)anthracene	0.0004	0.001	ug/L	<MDL	0.1	0.089	89	61--139
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	0.1	0.0944	94	63--126

MSD:WG128792-4 MS:WG128792-3 L58657-1 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	0.0006	0.0047	ug/L	0.096	0.0943	0.108	13	*	20--90	0.0943	0.138	45	24	0--40		
2-Methylnaphthalene	0.0006	0.0028	ug/L	0.0015	0.0943	0.0642	66		28--97	0.0943	0.0556	57	14	0--40		
Acenaphthylene	0.0002	0.0005	ug/L	0.00028	0.0943	0.0699	74		48--107	0.0943	0.0622	66	12	0--40		
Acenaphthene	0.0003	0.0014	ug/L	0.00078	0.0943	0.0655	69		38--90	0.0943	0.0593	62	10	0--40		
Fluorene	0.0002	0.0009	ug/L	0.00105	0.0943	0.071	74		42--113	0.0943	0.0628	65	12	0--40		
Phenanthrene	0.0002	0.0019	ug/L	0.00341	0.0943	0.0712	72		51--98	0.0943	0.0629	63	12	0--40		
Anthracene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0697	74		49--112	0.0943	0.0592	63	16	0--40		
Fluoranthene	0.0002	0.0009	ug/L	0.00126	0.0943	0.0944	99		65--125	0.0943	0.0835	87	12	0--40		
Pyrene	0.0002	0.0009	ug/L	0.00051	0.0943	0.0879	93		38--150	0.0943	0.0768	81	13	0--40		
Benzo(a)anthracene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0896	95		83--114	0.0943	0.0819	87	9	0--40		
Chrysene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0923	98		68--115	0.0943	0.0853	90	8	0--40		
Benzo(b,j,k)fluoranthene	0.0005	0.0009	ug/L	<MDL	0.189	0.194	103		43--146	0.189	0.186	99	4	0--40		
Benzo(a)pyrene	0.0005	0.0009	ug/L	<MDL	0.0943	0.0869	92		27--150	0.0943	0.0789	84	10	0--40		
Indeno(1,2,3-Cd)Pyrene	0.0003	0.0009	ug/L	<MDL	0.0943	0.094	100		20--150	0.0943	0.0866	92	8	0--40		
Dibenz(a,h)anthracene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0922	98		24--150	0.0943	0.0867	92	6	0--40		
Benzo(g,h,i)perylene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0978	104		26--140	0.0943	0.0933	99	5	0--40		

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	23--124	63--150
L58657-1	63	104
L58657-2	78	109
L58688-1	61	112
L58688-2	52	103
L58688-3	58	112
L58708-1	62	103
WG128792-1	79	109
WG128792-2	71	101
WG128792-3	66	105

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WG128792-4

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Workgroup: WG129048 (pahll#34 pah-sim-lvi-ll) Run ID: R191167

MB:WG129048-1 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	0.0007	0.005	ug/L	0.0025	B
2-Methylnaphthalene	0.0007	0.003	ug/L	0.00081	B
Acenaphthylene	0.0003	0.0005	ug/L	<MDL	
Acenaphthene	0.0004	0.0015	ug/L	<MDL	
Fluorene	0.0003	0.001	ug/L	0.00029	B
Phenanthrene	0.0002	0.002	ug/L	0.0017	B
Anthracene	0.0003	0.0005	ug/L	<MDL	
Fluoranthene	0.0002	0.001	ug/L	0.00057	B
Pyrene	0.0003	0.001	ug/L	0.00039	B
Benzo(a)anthracene	0.0003	0.0005	ug/L	<MDL	
Chrysene	0.0003	0.0005	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.0004	0.001	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.0004	0.001	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	
Total LPAHs	0.0002	0.0005	ug/L	0.00449	
Total HPAHS	0.0002	0.0005	ug/L	0.00096	

SBD:WG129048-3 SB:WG129048-2 MB:WG129048-1 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	0.0007	0.005	ug/L	0.0025	0.1	0.079	77		32--110	0.1	0.072	69		9		0--40
2-Methylnaphthalene	0.0007	0.003	ug/L	0.00081	0.1	0.0748	74		21--136	0.1	0.0705	70		6		0--40
Acenaphthylene	0.0003	0.0005	ug/L	<MDL	0.1	0.0947	95		56--124	0.1	0.0911	91		4		0--40
Acenaphthene	0.0004	0.0015	ug/L	<MDL	0.1	0.089	89		45--114	0.1	0.0836	84		6		0--40
Fluorene	0.0003	0.001	ug/L	0.00029	0.1	0.0954	95		54--122	0.1	0.0902	90		6		0--40
Phenanthrene	0.0002	0.002	ug/L	0.0017	0.1	0.091	89		57--104	0.1	0.0881	86		3		0--40
Anthracene	0.0003	0.0005	ug/L	<MDL	0.1	0.0786	79		47--107	0.1	0.0794	79		1		0--40
Fluoranthene	0.0002	0.001	ug/L	0.00057	0.1	0.0987	98		73--116	0.1	0.0963	96		2		0--40
Pyrene	0.0003	0.001	ug/L	0.00039	0.1	0.0942	94		66--143	0.1	0.089	89		6		0--40
Benzo(a)anthracene	0.0003	0.0005	ug/L	<MDL	0.1	0.0899	90		86--111	0.1	0.0891	89		1		0--40
Chrysene	0.0003	0.0005	ug/L	<MDL	0.1	0.0965	97		77--111	0.1	0.0939	94		3		0--40
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	0.2	0.176	88		71--131	0.2	0.173	87		2		0--40
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	0.1	0.0616	62		40--135	0.1	0.0653	65		6		0--40
Indeno(1,2,3-Cd)Pyrene	0.0004	0.001	ug/L	<MDL	0.1	0.0729	73		58--137	0.1	0.0709	71		3		0--40
Dibenzo(a,h)anthracene	0.0004	0.001	ug/L	<MDL	0.1	0.0765	77		61--139	0.1	0.0751	75		2		0--40

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for As and PAHs - Part 1

Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	0.1	0.0732	73	63--126	0.1	0.0729	73	0	0--40
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MS:WG129048-4 L58791-1 Matrix: FRESH 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	0.0006	0.0047	ug/L	0.0453	0.0943	0.133	93	*	20--90
2-Methylnaphthalene	0.0006	0.0028	ug/L	0.0014	0.0943	0.0606	63		28--97
Acenaphthylene	0.0002	0.0005	ug/L	0.00026	0.0943	0.0726	77		48--107
Acenaphthene	0.0003	0.0014	ug/L	0.00067	0.0943	0.0658	69		38--90
Fluorene	0.0002	0.0009	ug/L	0.00078	0.0943	0.0726	76		42--113
Phenanthrene	0.0002	0.0019	ug/L	0.00203	0.0943	0.0756	78		51--98
Anthracene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0767	81		49--112
Fluoranthene	0.0002	0.0009	ug/L	0.00071	0.0943	0.0938	99		65--125
Pyrene	0.0002	0.0009	ug/L	0.00031	0.0943	0.0845	89		38--150
Benzo(a)anthracene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0876	93		83--114
Chrysene	0.0002	0.0005	ug/L	<MDL	0.0943	0.0912	97		68--115
Benzo(b,j,k)fluoranthene	0.0005	0.0009	ug/L	<MDL	0.189	0.166	88		43--146
Benzo(a)pyrene	0.0005	0.0009	ug/L	<MDL	0.0943	0.0736	78		27--150
Indeno(1,2,3-Cd)Pyrene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0616	65		20--150
Dibenzo(a,h)anthracene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0619	66		24--150
Benzo(g,h,i)perylene	0.0003	0.0009	ug/L	<MDL	0.0943	0.0621	66		26--140

Surrogate:	2-Fluorobiphenyl	d14-Terphenyl
(Lab Limits)	23--124	63--150
L58791-1	59	107
WG129048-1	82	114
WG129048-2	87	105
WG129048-3	83	103
WG129048-4	65	102

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

King County Environmental Laboratory
LIMSView QC Report - 05/15/14 03:02

Workgroup: WG129574 (10/28/13 GRN RVT LOADING AS) Run ID: R191445

MB:WG129574-1 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:WG129574-2 MB:WG129574-1 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	100		85--115

LD:WG129574-3 L58861-1 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	0.18	0.16			0--20

MS:WG129574-4 L58861-1 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	0.18	20	19.5	97		75--125

Workgroup: WG130112 (12/2/13 GRN RVR Totals) Run ID: R192261

MB:WG130112-1 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:WG130112-2 MB:WG130112-1 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	100		85--115

LD:WG130112-3 L59149-1 Matrix: STORM WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project:423589-330-4 Pkey:STD
(Lab Duplicate)

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Arsenic, Total, ICP-MS		0.1	0.5 ug/L	0.46	0.47			0--20

MS:WG130112-4 L59149-1 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	0.46	20	19.3	94		75--125

Workgroup: WG130881 (1/30/14 GRN RVR TOTALS) Run ID: R193517

MB:WG130881-1 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:WG130881-2 MB:WG130881-1 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	96	85--115

LD:WG130881-3 L59470-2 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	0.49	0.5			0--20

MS:WG130881-4 L59470-2 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	0.49	20	18.6	90		75--125

Workgroup: WG131276 (26-FEB-14 Green R As) Run ID: R193832

MB:WG131276-1 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:WG131276-2 MB:WG131276-1 Matrix: BLANK WTR Listtype:MTICPMS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Spike Blank, Method Blank)

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

Parameter	MDL	RDL	Units	MB Value	TrueValue	SB Value	% Rec.	Qual	LabLimit
Arsenic, Total, ICP-MS	0.1		0.5 ug/L	<MDL	20	19.4	97		85--115

LD:WG131276-3 L59595-1 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	0.37	0.38		0--20	

MS:WG131276-4 L59595-1 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	0.37	20	18.7	92		75--125

Workgroup: WG129576 (10/28/13 GRN RVR LOADING AS DISS) Run ID: R191565

MB:WG129576-1 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:WG129576-2 MB:WG129576-1 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	19.4	97		85--115

LD:WG129576-3 L58976-1 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	0.12	0.13		0--20	

MS:WG129576-4 L58976-1 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	0.12	20	20.6	103		75--125

Workgroup: WG130113 (12/2/13 GRN RVR Diss) Run ID: R192262

MB:WG130113-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

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Parameter	MDL	RDL	Units	MB Value	Qual
Arsenic, Dissolved, ICP-MS	0.1		0.5 ug/L	<MDL	

SB:WG130113-2 MB:WG130113-1 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	19.8	99		85--115

LD:WG130113-3 L59148-1 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	0.16	0.16		0--20	

MS:WG130113-4 L59148-1 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	0.16	20	20.1	100		75--125

Workgroup: WG130931 (03-FEB-14 Green R, Brandon, etc) Run ID: R193504

MB:WG130931-1 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Magnesium, Dissolved, ICP-MS	50		50 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	
Manganese, Dissolved, ICP-MS	0.1		0.5 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	
Lead, Dissolved, ICP-MS	0.1		0.5 ug/L	<MDL	

SB:WG130931-2 MB:WG130931-1 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
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LIMSView QC Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

Magnesium, Dissolved, ICP-MS	50	50 ug/L	<MDL	5000	4510	90	85--115
Calcium, Dissolved, ICP-MS	50	50 ug/L	<MDL	5000	4680	94	85--115
Vanadium, Dissolved, ICP-MS	0.075	0.375 ug/L	<MDL	20	18.7	93	85--115
Chromium, Dissolved, ICP-MS	0.2	1 ug/L	<MDL	20	19.1	96	85--115
Manganese, Dissolved, ICP-MS	0.1	0.5 ug/L	<MDL	20	18.4	92	85--115
Nickel, Dissolved, ICP-MS	0.1	0.5 ug/L	<MDL	20	20.3	101	85--115
Copper, Dissolved, ICP-MS	0.4	2 ug/L	<MDL	20	20.1	101	85--115
Zinc, Dissolved, ICP-MS	0.5	2.5 ug/L	<MDL	20	21.2	106	85--115
Arsenic, Dissolved, ICP-MS	0.1	0.5 ug/L	<MDL	20	19.7	99	85--115
Selenium, Dissolved, ICP-MS	0.5	1 ug/L	<MDL	20	20.8	104	85--115
Silver, Dissolved, ICP-MS	0.04	0.2 ug/L	<MDL	20	18.9	95	85--115
Cadmium, Dissolved, ICP-MS	0.05	0.25 ug/L	<MDL	20	19.8	99	85--115
Lead, Dissolved, ICP-MS	0.1	0.5 ug/L	<MDL	20	18.8	94	85--115

LD:WG130931-3 L59491-10 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423530 Pkey:STD
(Lab Duplicate)

Parameter	MDL	RDL	Units	SAMP Value	LD Value	RPD	Qual	LabLimit
Magnesium, Dissolved, ICP-MS	50	50 ug/L		952	954	0	0--20	
Calcium, Dissolved, ICP-MS	50	50 ug/L		6010	6020	0	0--20	
Vanadium, Dissolved, ICP-MS	0.075	0.375 ug/L		0.728	0.727	0	0--20	
Chromium, Dissolved, ICP-MS	0.2	1 ug/L		0.51	0.5		0--20	
Manganese, Dissolved, ICP-MS	0.1	0.5 ug/L		20.1	20.1	0	0--20	
Nickel, Dissolved, ICP-MS	0.1	0.5 ug/L		0.731	0.749	2	0--20	
Copper, Dissolved, ICP-MS	0.4	2 ug/L		2.44	2.5	2	0--20	
Zinc, Dissolved, ICP-MS	0.5	2.5 ug/L		30.1	30.2	0	0--20	
Arsenic, Dissolved, ICP-MS	0.1	0.5 ug/L		0.53	0.542	2	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	
Lead, Dissolved, ICP-MS	0.1	0.5 ug/L		0.42	0.41		0--20	

MS:WG130931-4 L59491-10 Matrix: STORM WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project:423530 Pkey:STD
(Matrix Spike)

Parameter	MDL	RDL	Units	SAMP Value	TrueValue	MS Value	% Rec.	Qual	LabLimit
Magnesium, Dissolved, ICP-MS	50	50 ug/L		952	5000	5700	95		75--125
Calcium, Dissolved, ICP-MS	50	50 ug/L		6010	5000	10700	94		75--125
Vanadium, Dissolved, ICP-MS	0.075	0.375 ug/L		0.728	20	19.2	92		75--125
Chromium, Dissolved, ICP-MS	0.2	1 ug/L		0.51	20	19.5	95		75--125
Manganese, Dissolved, ICP-MS	0.1	0.5 ug/L		20.1	20	38.6	93		75--125
Nickel, Dissolved, ICP-MS	0.1	0.5 ug/L		0.731	20	20.9	101		75--125
Copper, Dissolved, ICP-MS	0.4	2 ug/L		2.44	20	22.5	100		75--125

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

Zinc, Dissolved, ICP-MS	0.5	2.5 ug/L	30.1	20	50.6	103	75--125
Arsenic, Dissolved, ICP-MS	0.1	0.5 ug/L	0.53	20	20.6	100	75--125
Selenium, Dissolved, ICP-MS	0.5	1 ug/L	<MDL	20	20.9	104	75--125
Silver, Dissolved, ICP-MS	0.04	0.2 ug/L	<MDL	20	18.3	92	75--125
Cadmium, Dissolved, ICP-MS	0.05	0.25 ug/L	<MDL	20	19.8	99	75--125
Lead, Dissolved, ICP-MS	0.1	0.5 ug/L	0.42	20	18.8	92	75--125

MB:WG130931-5 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Magnesium, Dissolved, ICP-MS	50		50 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	
Manganese, Dissolved, ICP-MS	0.1		0.5 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	
Lead, Dissolved, ICP-MS	0.1		0.5 ug/L	0.549 B	

MB:WG130931-6 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
(Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Magnesium, Dissolved, ICP-MS	50		50 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	
Manganese, Dissolved, ICP-MS	0.1		0.5 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	
Lead, Dissolved, ICP-MS	0.1		0.5 ug/L	<MDL	

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

MB:WG130931-7 Matrix: BLANK WTR Listtype:MTICPMS-DISS Method:EPA 200.8*SW846 6020A Project: Pkey:STD
 (Method Blank)

Parameter	MDL	RDL	Units	MB Value	Qual
Magnesium, Dissolved, ICP-MS	50		50 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	
Manganese, Dissolved, ICP-MS	0.1		0.5 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	
Lead, Dissolved, ICP-MS	0.1		0.5 ug/L	<MDL	

Workgroup: WG129237 (PAHLL#35) Run ID: R191168

MB:WG129237-1 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	0.00065		0.005 ug/L	0.0019 B	
2-Methylnaphthalene	0.00065		0.003 ug/L	<MDL	
Acenaphthylene	0.00025		0.0005 ug/L	<MDL	
Acenaphthene	0.00035		0.0015 ug/L	<MDL	
Fluorene	0.00025		0.001 ug/L	<MDL	
Phenanthrene	0.0002		0.002 ug/L	0.0014 B	
Anthracene	0.00025		0.0005 ug/L	<MDL	
Fluoranthene	0.00017		0.001 ug/L	<MDL	
Pyrene	0.00025		0.001 ug/L	0.0003 B	
Benzo(a)anthracene	0.00025		0.0005 ug/L	<MDL	
Chrysene	0.00025		0.0005 ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005		0.001 ug/L	<MDL	
Benzo(a)pyrene	0.0005		0.001 ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00035		0.001 ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035		0.001 ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003		0.001 ug/L	<MDL	
Total LPAHs	0.0002		0.0005 ug/L	0.0033	
Total HPAHS	0.00017		0.0005 ug/L	0.0003	

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SB:WG129237-2 MB:WG129237-1 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	0.00065	0.005	ug/L	0.0019	0.1	0.0774	75		32--110
2-Methylnaphthalene	0.00065	0.003	ug/L	<MDL	0.1	0.0792	79		21--136
Acenaphthylene	0.00025	0.0005	ug/L	<MDL	0.1	0.0932	93		56--124
Acenaphthene	0.00035	0.0015	ug/L	<MDL	0.1	0.0855	85		45--114
Fluorene	0.00025	0.001	ug/L	<MDL	0.1	0.0919	92		54--122
Phenanthrene	0.0002	0.002	ug/L	0.0014	0.1	0.0885	87		57--104
Anthracene	0.00025	0.0005	ug/L	<MDL	0.1	0.0908	91		47--107
Fluoranthene	0.00017	0.001	ug/L	<MDL	0.1	0.0969	97		73--116
Pyrene	0.00025	0.001	ug/L	0.0003	0.1	0.0948	94		66--143
Benzo(a)anthracene	0.00025	0.0005	ug/L	<MDL	0.1	0.0914	91		86--111
Chrysene	0.00025	0.0005	ug/L	<MDL	0.1	0.0948	95		77--111
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	0.2	0.171	86		71--131
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	0.1	0.076	76		40--135
Indeno(1,2,3-Cd)Pyrene	0.00035	0.001	ug/L	<MDL	0.1	0.0716	72		58--137
Dibenzo(a,h)anthracene	0.00035	0.001	ug/L	<MDL	0.1	0.0755	76		61--139
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	0.1	0.0728	73		63--126

MSD:WG129237-4 MS:WG129237-3 L58861-2 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	0.00061	0.00472	ug/L	0.0321	0.0943	0.0575	27		20--90	0.0952	0.0691	39	18		0--40	
2-Methylnaphthalene	0.00061	0.00283	ug/L	<MDL	0.0943	0.0441	47		28--97	0.0952	0.0543	57	21		0--40	
Acenaphthylene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0595	63		48--107	0.0952	0.07	73	16		0--40	
Acenaphthene	0.00033	0.00142	ug/L	<MDL	0.0943	0.0558	59		38--90	0.0952	0.0663	70	17		0--40	
Fluorene	0.00024	0.000943	ug/L	<MDL	0.0943	0.0639	68		42--113	0.0952	0.0729	76	13		0--40	
Phenanthrene	0.00019	0.00189	ug/L	0.00048	0.0943	0.0722	76		51--98	0.0952	0.0715	75	1		0--40	
Anthracene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0733	78		49--112	0.0952	0.0704	74	4		0--40	
Fluoranthene	0.00016	0.000943	ug/L	0.0003	0.0943	0.0933	99		65--125	0.0952	0.0925	97	1		0--40	
Pyrene	0.00024	0.000943	ug/L	<MDL	0.0943	0.081	86		38--150	0.0952	0.078	82	4		0--40	
Benzo(a)anthracene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0911	97		83--114	0.0952	0.0889	93	2		0--40	
Chrysene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0933	99		68--115	0.0952	0.092	97	1		0--40	
Benzo(b,j,k)fluoranthene	0.00047	0.000943	ug/L	<MDL	0.189	0.184	97		43--146	0.19	0.183	96	0		0--40	
Benzo(a)pyrene	0.00047	0.000943	ug/L	<MDL	0.0943	0.0815	86		27--150	0.0952	0.0786	83	4		0--40	
Indeno(1,2,3-Cd)Pyrene	0.00033	0.000943	ug/L	<MDL	0.0943	0.0749	79		20--150	0.0952	0.0812	85	8		0--40	
Dibenzo(a,h)anthracene	0.00033	0.000943	ug/L	<MDL	0.0943	0.0789	84		24--150	0.0952	0.0859	90	8		0--40	
Benzo(g,h,i)perylene	0.00028	0.000943	ug/L	<MDL	0.0943	0.0761	81		26--140	0.0952	0.0812	85	6		0--40	

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

	2-	
Surrogate:	Fluorobiphenyl	d14-
(Lab Limits)	henyl	Terphenyl
	23--124	63--150
L58861-1	68	97
L58861-2	64	103
L58861-3	73	97
WG129237-1	81	108
WG129237-2	82	104
WG129237-3	60	99
WG129237-4	74	96

Workgroup: WG129502 (PAHLL#36) Run ID: R191808

MB:WG129502-1 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	0.00065	0.005	ug/L	0.002	B
2-Methylnaphthalene	0.00065	0.003	ug/L	0.00069	B
Acenaphthylene	0.00025	0.0005	ug/L	<MDL	
Acenaphthene	0.00035	0.0015	ug/L	<MDL	
Fluorene	0.00025	0.001	ug/L	<MDL	
Phenanthrene	0.0002	0.002	ug/L	0.0014	B
Anthracene	0.00025	0.0005	ug/L	<MDL	
Fluoranthene	0.00017	0.001	ug/L	0.00058	B
Pyrene	0.00025	0.001	ug/L	0.00044	B
Benzo(a)anthracene	0.00025	0.0005	ug/L	<MDL	
Chrysene	0.00025	0.0005	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00035	0.001	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.001	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	
Total LPAHs	0.0002	0.0005	ug/L	0.0034	
Total HPAHS	0.00017	0.0005	ug/L	0.00102	

SB:WG129502-2 MB:WG129502-1 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	0.00065	0.005	ug/L	0.002	0.1	0.0619	60		32--110
2-Methylnaphthalene	0.00065	0.003	ug/L	0.00069	0.1	0.0594	59		21--136

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Acenaphthylene	0.00025	0.0005 ug/L	<MDL	0.1	0.0812	81	56--124
Acenaphthene	0.00035	0.0015 ug/L	<MDL	0.1	0.0748	75	45--114
Fluorene	0.00025	0.001 ug/L	<MDL	0.1	0.0853	85	54--122
Phenanthrene	0.0002	0.002 ug/L	0.0014	0.1	0.0863	85	57--104
Anthracene	0.00025	0.0005 ug/L	<MDL	0.1	0.0844	84	47--107
Fluoranthene	0.00017	0.001 ug/L	0.00058	0.1	0.111	111	73--116
Pyrene	0.00025	0.001 ug/L	0.00044	0.1	0.0929	92	66--143
Benzo(a)anthracene	0.00025	0.0005 ug/L	<MDL	0.1	0.102	102	86--111
Chrysene	0.00025	0.0005 ug/L	<MDL	0.1	0.1	100	77--111
Benzo(b,j,k)fluoranthene	0.0005	0.001 ug/L	<MDL	0.2	0.217	108	71--131
Benzo(a)pyrene	0.0005	0.001 ug/L	<MDL	0.1	0.0961	96	40--135
Indeno(1,2,3-Cd)Pyrene	0.00035	0.001 ug/L	<MDL	0.1	0.11	110	58--137
Dibeno(a,h)anthracene	0.00035	0.001 ug/L	<MDL	0.1	0.115	115	61--139
Benzo(g,h,i)perylene	0.0003	0.001 ug/L	<MDL	0.1	0.11	110	63--126

MSD:WG129502-4 MS:WG129502-3 L58976-1 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	0.00061	0.00472	ug/L	0.0773	0.0943	0.168	96	*	20--90	0.0943	0.113	38	39	0--40		
2-Methylnaphthalene	0.00061	0.00283	ug/L	<MDL	0.0943	0.0553	59		28--97	0.0943	0.0535	57	3	0--40		
Acenaphthylene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0785	83		48--107	0.0943	0.073	77	7	0--40		
Acenaphthene	0.00033	0.00142	ug/L	<MDL	0.0943	0.0725	77		38--90	0.0943	0.068	72	6	0--40		
Fluorene	0.00024	0.000943	ug/L	0.00028	0.0943	0.0797	84		42--113	0.0943	0.076	80	5	0--40		
Phenanthrene	0.00019	0.00189	ug/L	0.00081	0.0943	0.0794	83		51--98	0.0943	0.0793	83	0	0--40		
Anthracene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0796	84		49--112	0.0943	0.0805	85	1	0--40		
Fluoranthene	0.00016	0.000943	ug/L	0.00044	0.0943	0.106	112		65--125	0.0943	0.107	113	0	0--40		
Pyrene	0.00024	0.000943	ug/L	0.00026	0.0943	0.0917	97		38--150	0.0943	0.0906	96	1	0--40		
Benzo(a)anthracene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0953	101		83--114	0.0943	0.0966	102	1	0--40		
Chrysene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0906	96		68--115	0.0943	0.092	98	2	0--40		
Benzo(b,j,k)fluoranthene	0.00047	0.000943	ug/L	<MDL	0.189	0.196	104		43--146	0.189	0.204	108	4	0--40		
Benzo(a)pyrene	0.00047	0.000943	ug/L	<MDL	0.0943	0.0904	96		27--150	0.0943	0.0947	100	5	0--40		
Indeno(1,2,3-Cd)Pyrene	0.00033	0.000943	ug/L	<MDL	0.0943	0.0938	99		20--150	0.0943	0.101	107	7	0--40		
Dibeno(a,h)anthracene	0.00033	0.000943	ug/L	<MDL	0.0943	0.0958	102		24--150	0.0943	0.101	107	6	0--40		
Benzo(g,h,i)perylene	0.00028	0.000943	ug/L	<MDL	0.0943	0.0963	102		26--140	0.0943	0.1	106	4	0--40		

2-
 Fluorobiphenyl d14-
 Terphenyl

Surrogate:
 (Lab Limits)
 L58976-1 65 119
 L58976-2 78 118

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WG129502-1	81	119
WG129502-2	72	106
WG129502-3	75	109
WG129502-4	71	110

Workgroup: WG129821 (pahll#37 pah-sim-lvi-II) Run ID: R192100

MB:WG129821-1 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	0.00065	0.005	ug/L	0.0021	B
2-Methylnaphthalene	0.00065	0.003	ug/L	<MDL	
Acenaphthylene	0.00025	0.0005	ug/L	<MDL	
Acenaphthene	0.00035	0.0015	ug/L	<MDL	
Fluorene	0.00025	0.001	ug/L	<MDL	
Phenanthrene	0.0002	0.002	ug/L	0.0012	B
Anthracene	0.00025	0.0005	ug/L	<MDL	
Fluoranthene	0.00017	0.001	ug/L	0.00056	B
Pyrene	0.00025	0.001	ug/L	0.00041	B
Benzo(a)anthracene	0.00025	0.0005	ug/L	<MDL	
Chrysene	0.00025	0.0005	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00035	0.001	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.001	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	
Total LPAHs	0.0002	0.0005	ug/L	0.0033	
Total HPAHs	0.00017	0.0005	ug/L	0.00097	

SB:WG129821-2 MB:WG129821-1 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	0.00065	0.005	ug/L	0.0021	0.1	0.0733	71		32--110
2-Methylnaphthalene	0.00065	0.003	ug/L	<MDL	0.1	0.0808	81		21--136
Acenaphthylene	0.00025	0.0005	ug/L	<MDL	0.1	0.0876	88		56--124
Acenaphthene	0.00035	0.0015	ug/L	<MDL	0.1	0.0898	90		45--114
Fluorene	0.00025	0.001	ug/L	<MDL	0.1	0.0983	98		54--122
Phenanthrene	0.0002	0.002	ug/L	0.0012	0.1	0.0904	89		57--104
Anthracene	0.00025	0.0005	ug/L	<MDL	0.1	0.089	89		47--107
Fluoranthene	0.00017	0.001	ug/L	0.00056	0.1	0.107	106		73--116
Pyrene	0.00025	0.001	ug/L	0.00041	0.1	0.0962	96		66--143

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Benzo(a)anthracene	0.00025	0.0005 ug/L	<MDL	0.1	0.103	103	86--111
Chrysene	0.00025	0.0005 ug/L	<MDL	0.1	0.105	105	77--111
Benzo(b,j,k)fluoranthene	0.0005	0.001 ug/L	<MDL	0.2	0.218	109	71--131
Benzo(a)pyrene	0.0005	0.001 ug/L	<MDL	0.1	0.0962	96	40--135
Indeno(1,2,3-Cd)Pyrene	0.00035	0.001 ug/L	<MDL	0.1	0.111	111	58--137
Dibenzo(a,h)anthracene	0.00035	0.001 ug/L	<MDL	0.1	0.12	120	61--139
Benzo(g,h,i)perylene	0.0003	0.001 ug/L	<MDL	0.1	0.112	112	63--126

MSD:WG129821-4 MS:WG129821-3 L59148-2 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	0.00061	0.00472	ug/L	0.0613	0.0943	0.141	85		20--90	0.0943	0.13	72	9	0--40		
2-Methylnaphthalene	0.00061	0.00283	ug/L	<MDL	0.0943	0.0512	54		28--97	0.0943	0.0409	43	22	0--40		
Acenaphthylene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0646	68		48--107	0.0943	0.0501	53	25	0--40		
Acenaphthene	0.00033	0.00142	ug/L	<MDL	0.0943	0.0646	68		38--90	0.0943	0.05	53	25	0--40		
Fluorene	0.00024	0.000943	ug/L	<MDL	0.0943	0.0715	76		42--113	0.0943	0.0581	62	21	0--40		
Phenanthrene	0.00019	0.00189	ug/L	0.0008	0.0943	0.0721	76		51--98	0.0943	0.0624	65	14	0--40		
Anthracene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0758	80		49--112	0.0943	0.0662	70	13	0--40		
Fluoranthene	0.00016	0.000943	ug/L	0.00052	0.0943	0.0968	102		65--125	0.0943	0.0901	95	7	0--40		
Pyrene	0.00024	0.000943	ug/L	<MDL	0.0943	0.0861	91		38--150	0.0943	0.0799	85	7	0--40		
Benzo(a)anthracene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0934	99		83--114	0.0943	0.0892	95	5	0--40		
Chrysene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0959	102		68--115	0.0943	0.091	96	5	0--40		
Benzo(b,j,k)fluoranthene	0.00047	0.000943	ug/L	<MDL	0.189	0.199	105		43--146	0.189	0.19	100	5	0--40		
Benzo(a)pyrene	0.00047	0.000943	ug/L	<MDL	0.0943	0.0957	101		27--150	0.0943	0.093	99	3	0--40		
Indeno(1,2,3-Cd)Pyrene	0.00033	0.000943	ug/L	<MDL	0.0943	0.102	108		20--150	0.0943	0.0976	103	4	0--40		
Dibenzo(a,h)anthracene	0.00033	0.000943	ug/L	<MDL	0.0943	0.105	112		24--150	0.0943	0.101	107	4	0--40		
Benzo(g,h,i)perylene	0.00028	0.000943	ug/L	<MDL	0.0943	0.102	108		26--140	0.0943	0.097	103	5	0--40		

2-

Fluorobiphenyl d14-
 henyl Terphenyl

Surrogate:		
(Lab Limits)	23--124	63--150
L59148-1	53	105
L59148-2	51	109
L59148-3	58	108
L59149-1	56	105
WG129821-1	77	108
WG129821-2	80	111
WG129821-3	61	103
WG129821-4	48	101

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Workgroup: WG129995 (pahLL#38 lvi-II) Run ID: R192101

MB:WG129995-1 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	0.00065	0.005	ug/L	0.0022	B
2-Methylnaphthalene	0.00065	0.003	ug/L	0.00081	B
Acenaphthylene	0.00025	0.0005	ug/L	<MDL	
Acenaphthene	0.00035	0.0015	ug/L	<MDL	
Fluorene	0.00025	0.001	ug/L	<MDL	
Phenanthrene	0.0002	0.002	ug/L	0.0013	B
Anthracene	0.00025	0.0005	ug/L	<MDL	
Fluoranthene	0.00017	0.001	ug/L	0.00055	B
Pyrene	0.00025	0.001	ug/L	0.00041	B
Benzo(a)anthracene	0.00025	0.0005	ug/L	<MDL	
Chrysene	0.00025	0.0005	ug/L	<MDL	
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	
Indeno(1,2,3-Cd)Pyrene	0.00035	0.001	ug/L	<MDL	
Dibenzo(a,h)anthracene	0.00035	0.001	ug/L	<MDL	
Benzo(g,h,i)perylene	0.0003	0.001	ug/L	<MDL	
Total LPAHs	0.0002	0.0005	ug/L	0.0035	
Total HPAHS	0.00017	0.0005	ug/L	0.00096	

SB:WG129995-2 MB:WG129995-1 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	0.00065	0.005	ug/L	0.0022	0.1	0.0598	58		32--110
2-Methylnaphthalene	0.00065	0.003	ug/L	0.00081	0.1	0.0568	56		21--136
Acenaphthylene	0.00025	0.0005	ug/L	<MDL	0.1	0.0795	80		56--124
Acenaphthene	0.00035	0.0015	ug/L	<MDL	0.1	0.0792	79		45--114
Fluorene	0.00025	0.001	ug/L	<MDL	0.1	0.0889	89		54--122
Phenanthrene	0.0002	0.002	ug/L	0.0013	0.1	0.0861	85		57--104
Anthracene	0.00025	0.0005	ug/L	<MDL	0.1	0.0838	84		47--107
Fluoranthene	0.00017	0.001	ug/L	0.00055	0.1	0.0999	99		73--116
Pyrene	0.00025	0.001	ug/L	0.00041	0.1	0.0976	97		66--143
Benzo(a)anthracene	0.00025	0.0005	ug/L	<MDL	0.1	0.094	94		86--111
Chrysene	0.00025	0.0005	ug/L	<MDL	0.1	0.0968	97		77--111
Benzo(b,j,k)fluoranthene	0.0005	0.001	ug/L	<MDL	0.2	0.197	99		71--131
Benzo(a)pyrene	0.0005	0.001	ug/L	<MDL	0.1	0.0887	89		40--135
Indeno(1,2,3-Cd)Pyrene	0.00035	0.001	ug/L	<MDL	0.1	0.0968	97		58--137

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Dibenzo(a,h)anthracene	0.00035	0.001 ug/L	<MDL	0.1	0.103	103	61--139
Benzo(g,h,i)perylene	0.0003	0.001 ug/L	<MDL	0.1	0.0993	99	63--126

MSD:WG129995-4 MS:WG129995-3 L59240-1 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	0.00061	0.00472	ug/L	0.0251	0.0943	0.0779	56		20--90	0.0943	0.118	98 *	41 *	0--40		
2-Methylnaphthalene	0.00061	0.00283	ug/L	0.00079	0.0943	0.0587	61		28--97	0.0943	0.055	57	7	0--40		
Acenaphthylene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0776	82		48--107	0.0943	0.073	77	6	0--40		
Acenaphthene	0.00033	0.00142	ug/L	<MDL	0.0943	0.0763	81		38--90	0.0943	0.072	76	6	0--40		
Fluorene	0.00024	0.000943	ug/L	0.00032	0.0943	0.0849	90		42--113	0.0943	0.0791	84	7	0--40		
Phenanthrene	0.00019	0.00189	ug/L	0.0011	0.0943	0.0868	91		51--98	0.0943	0.0816	85	6	0--40		
Anthracene	0.00024	0.000472	ug/L	<MDL	0.0943	0.0898	95		49--112	0.0943	0.0828	88	8	0--40		
Fluoranthene	0.00016	0.000943	ug/L	0.00053	0.0943	0.103	109		65--125	0.0943	0.101	106	2	0--40		
Pyrene	0.00024	0.000943	ug/L	<MDL	0.0943	0.0913	97		38--150	0.0943	0.0941	100	3	0--40		
Benzo(a)anthracene	0.00024	0.000472	ug/L	<MDL	0.0943	0.1	106		83--114	0.0943	0.0973	103	3	0--40		
Chrysene	0.00024	0.000472	ug/L	<MDL	0.0943	0.104	110		68--115	0.0943	0.101	107	3	0--40		
Benzo(b,j,k)fluoranthene	0.00047	0.000943	ug/L	<MDL	0.189	0.216	115		43--146	0.189	0.208	110	4	0--40		
Benzo(a)pyrene	0.00047	0.000943	ug/L	<MDL	0.0943	0.101	107		27--150	0.0943	0.0954	101	5	0--40		
Indeno(1,2,3-Cd)Pyrene	0.00033	0.000943	ug/L	<MDL	0.0943	0.108	114		20--150	0.0943	0.0975	103	10	0--40		
Dibenzo(a,h)anthracene	0.00033	0.000943	ug/L	<MDL	0.0943	0.112	119		24--150	0.0943	0.099	105	12	0--40		
Benzo(g,h,i)perylene	0.00028	0.000943	ug/L	<MDL	0.0943	0.108	115		26--140	0.0943	0.1	106	8	0--40		

2-

Fluorobiphenyl d14-

Surrogate:	henyl	Terphenyl
(Lab Limits)	23--124	63--150
L59239-1	64	117
L59240-1	85	119
L59240-2	68	106
WG129995-1	65	108
WG129995-2	70	108
WG129995-3	77	114
WG129995-4	72	115

Workgroup: WG130669 (pahll#39 pah-sim-lvi-II) Run ID: R193121

MB:WG130669-1 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	0.00065	0.005	ug/L	0.0011 B	

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2-Methylnaphthalene	0.00065	0.003 ug/L	<MDL
Acenaphthylene	0.00025	0.0005 ug/L	<MDL
Acenaphthene	0.00035	0.0015 ug/L	<MDL
Fluorene	0.00025	0.001 ug/L	<MDL
Phenanthrene	0.0002	0.002 ug/L	0.0013 B
Anthracene	0.00025	0.0005 ug/L	<MDL
Fluoranthene	0.00017	0.001 ug/L	0.00054 B
Pyrene	0.00025	0.001 ug/L	0.00044 B
Benzo(a)anthracene	0.00025	0.0005 ug/L	<MDL
Chrysene	0.00025	0.0005 ug/L	<MDL
Benzo(b,j,k)fluoranthene	0.0005	0.001 ug/L	<MDL
Benzo(a)pyrene	0.0005	0.001 ug/L	<MDL
Indeno(1,2,3-Cd)Pyrene	0.00035	0.001 ug/L	<MDL
Dibenz(a,h)anthracene	0.00035	0.001 ug/L	<MDL
Benzo(g,h,i)perylene	0.0003	0.001 ug/L	<MDL
Total LPAHs	0.0002	0.0005 ug/L	0.0024
Total HPAHS	0.00017	0.0005 ug/L	0.00098

SB:WG130669-2 MB:WG130669-1 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	0.00065	0.005 ug/L		0.0011	0.1	0.0745	73		32--110
2-Methylnaphthalene	0.00065	0.003 ug/L	<MDL		0.1	0.0814	81		21--136
Acenaphthylene	0.00025	0.0005 ug/L	<MDL		0.1	0.0914	91		56--124
Acenaphthene	0.00035	0.0015 ug/L	<MDL		0.1	0.091	91		45--114
Fluorene	0.00025	0.001 ug/L	<MDL		0.1	0.1	100		54--122
Phenanthrene	0.0002	0.002 ug/L	0.0013		0.1	0.0922	91		57--104
Anthracene	0.00025	0.0005 ug/L	<MDL		0.1	0.0905	91		47--107
Fluoranthene	0.00017	0.001 ug/L	0.00054		0.1	0.0989	98		73--116
Pyrene	0.00025	0.001 ug/L	0.00044		0.1	0.092	92		66--143
Benzo(a)anthracene	0.00025	0.0005 ug/L	<MDL		0.1	0.0965	96		86--111
Chrysene	0.00025	0.0005 ug/L	<MDL		0.1	0.0999	100		77--111
Benzo(b,j,k)fluoranthene	0.0005	0.001 ug/L	<MDL		0.2	0.198	99		71--131
Benzo(a)pyrene	0.0005	0.001 ug/L	<MDL		0.1	0.0834	83		40--135
Indeno(1,2,3-Cd)Pyrene	0.00035	0.001 ug/L	<MDL		0.1	0.0949	95		58--137
Dibenz(a,h)anthracene	0.00035	0.001 ug/L	<MDL		0.1	0.0982	98		61--139
Benzo(g,h,i)perylene	0.0003	0.001 ug/L	<MDL		0.1	0.0954	95		63--126

MSD:WG130669-4 MS:WG130669-3 L59470-1 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
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LIMSView QC Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

Naphthalene	0.00061	0.00472 ug/L	0.0296	0.0943	0.0898	64	20--90	0.0943	0.0902	64	0	0--40
2-Methylnaphthalene	0.00061	0.00283 ug/L	0.0014	0.0943	0.0664	69	28--97	0.0943	0.0592	61	11	0--40
Acenaphthylene	0.00024	0.000472 ug/L	<MDL	0.0943	0.0719	76	48--107	0.0943	0.0674	71	6	0--40
Acenaphthene	0.00033	0.00142 ug/L	0.00045	0.0943	0.0718	76	38--90	0.0943	0.0674	71	6	0--40
Fluorene	0.00024	0.000943 ug/L	0.00058	0.0943	0.0774	81	42--113	0.0943	0.0721	76	7	0--40
Phenanthrene	0.00019	0.00189 ug/L	0.0015	0.0943	0.0764	79	51--98	0.0943	0.0737	77	4	0--40
Anthracene	0.00024	0.000472 ug/L	<MDL	0.0943	0.0774	82	49--112	0.0943	0.0749	79	3	0--40
Fluoranthene	0.00016	0.000943 ug/L	0.00078	0.0943	0.0867	91	65--125	0.0943	0.0863	91	0	0--40
Pyrene	0.00024	0.000943 ug/L	0.00057	0.0943	0.0829	87	38--150	0.0943	0.0809	85	3	0--40
Benzo(a)anthracene	0.00024	0.000472 ug/L	<MDL	0.0943	0.0842	89	83--114	0.0943	0.0836	89	1	0--40
Chrysene	0.00024	0.000472 ug/L	0.00024	0.0943	0.0857	91	68--115	0.0943	0.0853	90	1	0--40
Benzo(b,j,k)fluoranthene	0.00047	0.000943 ug/L	<MDL	0.189	0.166	88	43--146	0.189	0.166	88	0	0--40
Benzo(a)pyrene	0.00047	0.000943 ug/L	<MDL	0.0943	0.0774	82	27--150	0.0943	0.0765	81	1	0--40
Indeno(1,2,3-Cd)Pyrene	0.00033	0.000943 ug/L	<MDL	0.0943	0.0747	79	20--150	0.0943	0.0737	78	1	0--40
Dibenzo(a,h)anthracene	0.00033	0.000943 ug/L	<MDL	0.0943	0.0768	81	24--150	0.0943	0.0758	80	1	0--40
Benzo(g,h,i)perylene	0.00028	0.000943 ug/L	<MDL	0.0943	0.0761	81	26--140	0.0943	0.0769	82	1	0--40

2-

Fluorobiphenyl d14-Terphenyl

Surrogate:		
(Lab Limits)	23--124	63--150
L59470-1	66	106
L59470-2	62	103
WG130669-1	85	114
WG130669-2	88	107
WG130669-3	71	99
WG130669-4	67	98

Workgroup: WG130954 (pahll#40 pah-sim-lvi-ll) Run ID: R193527

MB:WG130954-1 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	0.00065	0.005	ug/L	0.0012	B
2-Methylnaphthalene	0.00065	0.003	ug/L	0.0011	B
Acenaphthylene	0.00025	0.0005	ug/L	<MDL	
Acenaphthene	0.00035	0.0015	ug/L	<MDL	
Fluorene	0.00025	0.001	ug/L	0.00045	B
Phenanthrene	0.0002	0.002	ug/L	0.0017	B
Anthracene	0.00025	0.0005	ug/L	<MDL	
Fluoranthene	0.00017	0.001	ug/L	0.00059	B

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

Pyrene	0.00025	0.001 ug/L	0.00044 B
Benzo(a)anthracene	0.00025	0.0005 ug/L	<MDL
Chrysene	0.00025	0.0005 ug/L	<MDL
Benzo(b,j,k)fluoranthene	0.0005	0.001 ug/L	<MDL
Benzo(a)pyrene	0.0005	0.001 ug/L	<MDL
Indeno(1,2,3-Cd)Pyrene	0.00035	0.001 ug/L	<MDL
Dibenzo(a,h)anthracene	0.00035	0.001 ug/L	<MDL
Benzo(g,h,i)perylene	0.0003	0.001 ug/L	<MDL
Total LPAHs	0.0002	0.0005 ug/L	0.00335
Total HPAHS	0.00017	0.0005 ug/L	0.00103

SB:WG130954-2 MB:WG130954-1 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	0.00065	0.005 ug/L	0.0012	0.1	0.0584	57	32--110		
2-Methylnaphthalene	0.00065	0.003 ug/L	0.0011	0.1	0.0611	60	21--136		
Acenaphthylene	0.00025	0.0005 ug/L	<MDL	0.1	0.0823	82	56--124		
Acenaphthene	0.00035	0.0015 ug/L	<MDL	0.1	0.0809	81	45--114		
Fluorene	0.00025	0.001 ug/L	0.00045	0.1	0.0926	92	54--122		
Phenanthrene	0.0002	0.002 ug/L	0.0017	0.1	0.0895	88	57--104		
Anthracene	0.00025	0.0005 ug/L	<MDL	0.1	0.0887	89	47--107		
Fluoranthene	0.00017	0.001 ug/L	0.00059	0.1	0.1	100	73--116		
Pyrene	0.00025	0.001 ug/L	0.00044	0.1	0.0889	88	66--143		
Benzo(a)anthracene	0.00025	0.0005 ug/L	<MDL	0.1	0.0972	97	86--111		
Chrysene	0.00025	0.0005 ug/L	<MDL	0.1	0.0992	99	77--111		
Benzo(b,j,k)fluoranthene	0.0005	0.001 ug/L	<MDL	0.2	0.207	104	71--131		
Benzo(a)pyrene	0.0005	0.001 ug/L	<MDL	0.1	0.0977	98	40--135		
Indeno(1,2,3-Cd)Pyrene	0.00035	0.001 ug/L	<MDL	0.1	0.103	103	58--137		
Dibenzo(a,h)anthracene	0.00035	0.001 ug/L	<MDL	0.1	0.107	107	61--139		
Benzo(g,h,i)perylene	0.0003	0.001 ug/L	<MDL	0.1	0.102	102	63--126		

MSD:WG130954-4 MS:WG130954-3 L59595-1 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	0.00061	0.00472 ug/L	0.114	0.0943	0.222	114 *	20--90		0.0943	0.204	95 *	8	0--40			
2-Methylnaphthalene	0.00061	0.00283 ug/L	0.0019	0.0943	0.0536	55	28--97		0.0943	0.0486	50	10	0--40			
Acenaphthylene	0.00024	0.000472 ug/L	0.00025	0.0943	0.0712	75	48--107		0.0943	0.0674	71	5	0--40			
Acenaphthene	0.00033	0.00142 ug/L	0.00052	0.0943	0.0718	76	38--90		0.0943	0.0671	71	7	0--40			
Fluorene	0.00024	0.000943 ug/L	0.00082	0.0943	0.0781	82	42--113		0.0943	0.0742	78	5	0--40			
Phenanthrene	0.00019	0.00189 ug/L	0.00207	0.0943	0.0802	83	51--98		0.0943	0.0744	77	7	0--40			
Anthracene	0.00024	0.000472 ug/L	<MDL	0.0943	0.0794	84	49--112		0.0943	0.0752	80	5	0--40			

LIMSView QC Report for Upper Green River Water Sampling - Data Validation for Arsenic & PAHs - Part 2

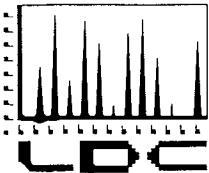
Fluoranthene	0.00016	0.000943 ug/L	0.0013	0.0943	0.0967	101	65--125	0.0943	0.0931	97	4	0--40
Pyrene	0.00024	0.000943 ug/L	0.00089	0.0943	0.0874	92	38--150	0.0943	0.0861	90	2	0--40
Benzo(a)anthracene	0.00024	0.000472 ug/L	0.00044	0.0943	0.0929	98	83--114	0.0943	0.0913	96	2	0--40
Chrysene	0.00024	0.000472 ug/L	0.000912	0.0943	0.0951	100	68--115	0.0943	0.0929	97	2	0--40
Benzo(b,j,k)fluoranthene	0.00047	0.000943 ug/L	0.00066	0.189	0.195	103	43--146	0.189	0.192	101	2	0--40
Benzo(a)pyrene	0.00047	0.000943 ug/L	<MDL	0.0943	0.0883	94	27--150	0.0943	0.0898	95	2	0--40
Indeno(1,2,3-Cd)Pyrene	0.00033	0.000943 ug/L	<MDL	0.0943	0.0885	94	20--150	0.0943	0.0868	92	2	0--40
Dibenzo(a,h)anthracene	0.00033	0.000943 ug/L	<MDL	0.0943	0.0929	98	24--150	0.0943	0.0856	91	8	0--40
Benzo(g,h,i)perylene	0.00028	0.000943 ug/L	<MDL	0.0943	0.0925	98	26--140	0.0943	0.0893	95	4	0--40

2-

Fluorobiphenyl d14-Terphenyl
 Surrogate: (Lab Limits)

23--124 63--150

L59595-1	62	106
WG130954-1	69	103
WG130954-2	70	102
WG130954-3	70	104
WG130954-4	64	102



LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

King County Environmental Laboratory
322 W. Ewing Street
Seattle WA 98119
ATTN: Mr. Fritz Grothkopp

October 9, 2014

SUBJECT: Lower Duwamish Waterway, Upper Green River Basin, Data Validation

Dear Mr. Grothkopp,

Enclosed is the final validation report for the fraction listed below. This SDG were received on February 21, 2014. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 31369:

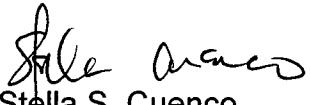
<u>SDG #</u>	<u>Fraction</u>
DPWG46369	Polychlorinated Biphenyls as Congeners

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- King County. 2011c. Green River Loading Study – Sampling and Analysis Plan. Prepared by Deb Lester, Richard Jack, and Debra Williston. Water and Land Resources Division. Seattle, Washington.
- King County. 2013a. Upper Green River Basin Water Quality Survey – Sampling and Analysis Plan. Prepared by Carly Greyell, Debra Williston, and Deb Lester. King County Water and Land Resources Division. Seattle, Washington.
- King County. 2013b. Green River Study Addendum – Sampling and Analysis Plan. Prepared by Deb Lester. Water and Land Resources Division. Seattle, Washington.

Please feel free to contact us if you have any questions.

Sincerely,


Stella S. Cuenco
Operations Manager/Senior Chemist

III LDC #31369 (King County - Seattle WA / Lower Duwamish Waterway, Upper Green River Basin)

Project #

Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample counts do not include MS/MSD, and DUPS.

31369ST.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Lower Duwamish Waterway, Upper Green River Basin
Collection Date: April 18 through September 19, 2013
LDC Report Date: March 10, 2014
Matrix: Water
Parameters: Polychlorinated Biphenyls as Congeners
Validation Level: EPA Level III
Laboratory: AXYS Analytical Services, Ltd.
Sample Delivery Group (SDG): DPWG46369

Sample Identification

L57772-1
L57794-1
L58246-1
L58657-1
L58657-2
L58688-1
L58688-2
L58688-3
L58708-1
L58791-1
L57772-1DUP

Introduction

This data review covers 11 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 Upper Green River Basin Water Sampling and Analysis Plan (August 2013) and EPA Region 10 SOP for the Validation of Polychlorinated Biphenyl (PCB) Data (Revision 1.0, December 8, 1995).

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-custodices 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 congener contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
WG45859-101	12/10/13	PCB 7 PCB 8 PCB 11 PCB 16 PCB 20+28 PCB 25 PCB 31 PCB 37 PCB 44+47+65 PCB 45+51 PCB 49+69 PCB 56 PCB 60 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 85+116+117 PCB 105 PCB 118 PCB 129+138+160+163 PCB 132 PCB 135+151+154 PCB 141 PCB 147+149 PCB 153+168 PCB 158 PCB 170 PCB 174 PCB 177 PCB 180+193 PCB 187 PCB 194 PCB 195 PCB 203 PCB 206 PCB 209 Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls Total Nonachloro Biphenyls	2.97 pg/L 1.10 pg/L 6.42 pg/L 0.789 pg/L 5.28 pg/L 0.519 pg/L 2.73 pg/L 1.13 pg/L 3.95 pg/L 1.06 pg/L 2.13 pg/L 1.42 pg/L 1.04 pg/L 4.98 pg/L 2.79 pg/L 3.46 pg/L 1.16 pg/L 2.00 pg/L 4.85 pg/L 14.7 pg/L 2.33 pg/L 2.33 pg/L 1.81 pg/L 5.39 pg/L 12.5 pg/L 1.07 pg/L 5.06 pg/L 2.22 pg/L 2.21 pg/L 11.1 pg/L 6.48 pg/L 2.70 pg/L 1.07 pg/L 3.18 pg/L 4.96 pg/L 2.35 pg/L 10.5 pg/L 10.4 pg/L 17.4 pg/L 11.5 pg/L 40.1 pg/L 27.1 pg/L 6.95 pg/L 4.96 pg/L	All samples in SDG DPWG46369

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
L57772-1	PCB 11 PCB 20+28 PCB 61+70+74+76 PCB 85+116+117 PCB 129+138+160+163 PCB 147+149 PCB 153+168 PCB 180+193 PCB 209	6.97 pg/L 3.80 pg/L 4.60 pg/L 1.93 pg/L 7.46 pg/L 4.93 pg/L 4.59 pg/L 3.25 pg/L 2.75 pg/L	6.97U pg/L 3.80U pg/L 4.60U pg/L 1.93U pg/L 7.46U pg/L 4.93U pg/L 4.59U pg/L 3.25U pg/L 2.75U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L57794-1	PCB 20+28 PCB 31 PCB 37 PCB 49+69 PCB 56 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 105 PCB 118 PCB 129+138+160+163 PCB 147+149 PCB 153+168 PCB 180+193 PCB 187	4.50 pg/L 2.98 pg/L 2.02 pg/L 2.68 pg/L 2.05 pg/L 5.87 pg/L 2.62 pg/L 3.95 pg/L 1.59 pg/L 3.39 pg/L 7.11 pg/L 3.65 pg/L 5.54 pg/L 4.36 pg/L 3.20 pg/L	4.50U pg/L 2.98U pg/L 2.02U pg/L 2.68U pg/L 2.05U pg/L 5.87U pg/L 2.62U pg/L 3.95U pg/L 1.59U pg/L 3.39U pg/L 7.11U pg/L 3.65U pg/L 5.54U pg/L 4.36U pg/L 3.20U pg/L
L58246-1	PCB 11 PCB 20+28 PCB 25 PCB 31 PCB 49+69 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 105 PCB 118 PCB 129+138+160+163 PCB 153+168 PCB 187 PCB 209	8.58 pg/L 6.23 pg/L 1.36 pg/L 2.48 pg/L 2.12 pg/L 4.64 pg/L 2.26 pg/L 2.10 pg/L 1.60 pg/L 3.43 pg/L 5.15 pg/L 4.13 pg/L 1.57 pg/L 1.30 pg/L	8.58U pg/L 6.23U pg/L 1.36U pg/L 2.48U pg/L 2.12U pg/L 4.64U pg/L 2.26U pg/L 2.10U pg/L 1.60U pg/L 3.43U pg/L 5.15U pg/L 4.13U pg/L 1.57U pg/L 1.30U pg/L
L58657-1	PCB 20+28 PCB 31 PCB 49+69 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 105 PCB 118 PCB 129+138+160+163 PCB 147+149 PCB 153+168 PCB 180+193 PCB 187 PCB 209	4.04 pg/L 2.48 pg/L 2.57 pg/L 6.96 pg/L 2.97 pg/L 2.59 pg/L 2.03 pg/L 4.07 pg/L 4.74 pg/L 2.86 pg/L 4.41 pg/L 1.49 pg/L 1.55 pg/L 1.40 pg/L	4.04U pg/L 2.48U pg/L 2.57U pg/L 6.96U pg/L 2.97U pg/L 2.59U pg/L 2.03U pg/L 4.07U pg/L 4.74U pg/L 2.86U pg/L 4.41U pg/L 1.49U pg/L 1.55U pg/L 1.40U pg/L
L58657-2	PCB 11 PCB 20+28 PCB 31 PCB 37 PCB 44+47+65 PCB 45+51 PCB 49+69 PCB 61+70+74+76 PCB 118 PCB 147+149 PCB 153+168 PCB 180+193	8.97 pg/L 3.99 pg/L 2.38 pg/L 1.07 pg/L 11.8 pg/L 2.77 pg/L 1.91 pg/L 3.86 pg/L 1.79 pg/L 2.05 pg/L 3.24 pg/L 1.59 pg/L	8.97U pg/L 3.99U pg/L 2.38U pg/L 1.07U pg/L 11.8U pg/L 2.77U pg/L 1.91U pg/L 3.86U pg/L 1.79U pg/L 2.05U pg/L 3.24U pg/L 1.59U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L58688-1	PCB 11 PCB 16 PCB 20+28 PCB 25 PCB 31 PCB 37 PCB 44+47+65 PCB 49+69 PCB 60 PCB 61+70+74+76 PCB 105 PCB 118 PCB 129+138+160+163 PCB 153+168 PCB 187	7.29 pg/L 1.12 pg/L 7.09 pg/L 0.776 pg/L 4.18 pg/L 3.13 pg/L 15.1 pg/L 2.07 pg/L 1.13 pg/L 6.49 pg/L 2.10 pg/L 4.58 pg/L 4.16 pg/L 2.94 pg/L 1.84 pg/L	7.29U pg/L 1.12U pg/L 7.09U pg/L 0.776U pg/L 4.18U pg/L 3.13U pg/L 15.1U pg/L 2.07U pg/L 1.13U pg/L 6.49U pg/L 2.10U pg/L 4.58U pg/L 4.16U pg/L 2.94U pg/L 1.84U pg/L
L58688-2	PCB 7 PCB 11 PCB 20+28 PCB 31 PCB 37 PCB 44+47+65 PCB 56 PCB 60 PCB 61+70+74+76 PCB 85+116+117 PCB 105 PCB 129+138+160+163 PCB 147+149 PCB 153+168 PCB 174 PCB 180+193	3.14 pg/L 13.5 pg/L 3.97 pg/L 2.73 pg/L 1.27 pg/L 12.3 pg/L 1.24 pg/L 1.03 pg/L 5.07 pg/L 1.21 pg/L 1.30 pg/L 7.99 pg/L 5.18 pg/L 8.52 pg/L 1.84 pg/L 6.19 pg/L	3.14U pg/L 13.5U pg/L 3.97U pg/L 2.73U pg/L 1.27U pg/L 12.3U pg/L 1.24U pg/L 1.03U pg/L 5.07U pg/L 1.21U pg/L 1.30U pg/L 7.99U pg/L 5.18U pg/L 8.52U pg/L 1.84U pg/L 6.19U pg/L
L58688-3	PCB 11 PCB 20+28 PCB 25 PCB 31 PCB 37 PCB 49+69 PCB 60 PCB 61+70+74+76 PCB 66 PCB 105 PCB 118 PCB 129+138+160+163 PCB 147+149 PCB 153+168	15.0 pg/L 3.91 pg/L 0.668 pg/L 2.66 pg/L 0.847 pg/L 4.19 pg/L 0.997 pg/L 4.33 pg/L 2.24 pg/L 0.837 pg/L 1.89 pg/L 3.04 pg/L 1.82 pg/L 2.19 pg/L	15.0U pg/L 3.91U pg/L 0.668U pg/L 2.66U pg/L 0.847U pg/L 4.19U pg/L 0.997U pg/L 4.33U pg/L 2.24U pg/L 0.837U pg/L 1.89U pg/L 3.04U pg/L 1.82U pg/L 2.19U pg/L
L58708-1	PCB 11 PCB 20+28 PCB 25 PCB 31 PCB 37 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 85+116+117 PCB 118 PCB 132 PCB 147+149 PCB 153+168 PCB 180+193 PCB 187 PCB 209	9.28 pg/L 5.30 pg/L 1.12 pg/L 2.30 pg/L 1.03 pg/L 5.32 pg/L 2.69 pg/L 2.70 pg/L 1.40 pg/L 3.45 pg/L 1.84 pg/L 3.30 pg/L 4.04 pg/L 1.92 pg/L 1.36 pg/L 1.85 pg/L	9.28U pg/L 5.30U pg/L 1.12U pg/L 2.30U pg/L 1.03U pg/L 5.32U pg/L 2.69U pg/L 2.70U pg/L 1.40U pg/L 3.45U pg/L 1.84U pg/L 3.30U pg/L 4.04U pg/L 1.92U pg/L 1.36U pg/L 1.85U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L58791-1	PCB 11 PCB 20+28 PCB 25 PCB 31 PCB 37 PCB 49+69 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 118 PCB 129+138+160+163 PCB 147+149 PCB 153+168	7.69 pg/L 4.96 pg/L 1.17 pg/L 2.58 pg/L 0.894 pg/L 2.33 pg/L 4.87 pg/L 2.62 pg/L 2.15 pg/L 2.86 pg/L 3.89 pg/L 2.97 pg/L 2.97 pg/L	7.69U pg/L 4.96U pg/L 1.17U pg/L 2.58U pg/L 0.894U pg/L 2.33U pg/L 4.87U pg/L 2.62U pg/L 2.15U pg/L 2.86U pg/L 3.89U pg/L 2.97U pg/L 2.97U pg/L
L57772-1DUP	PCB 8 PCB 11 PCB 16 PCB 20+28 PCB 49+69 PCB 56 PCB 60 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 118 PCB 129+138+160+163 PCB 135+151+154 PCB 147+149 PCB 153+168 PCB 180+193 PCB 187 PCB 209	2.39 pg/L 10.7 pg/L 1.76 pg/L 6.61 pg/L 2.77 pg/L 2.14 pg/L 1.06 pg/L 6.95 pg/L 3.79 pg/L 3.49 pg/L 5.71 pg/L 7.60 pg/L 2.07 pg/L 4.62 pg/L 6.58 pg/L 3.27 pg/L 2.39 pg/L 1.31 pg/L	2.39U pg/L 10.7U pg/L 1.76U pg/L 6.61U pg/L 2.77U pg/L 2.14U pg/L 1.06U pg/L 6.95U pg/L 3.79U pg/L 3.49U pg/L 5.71U pg/L 7.60U pg/L 2.07U pg/L 4.62U pg/L 6.58U pg/L 3.27U pg/L 2.39U pg/L 1.31U 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/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 with the following exceptions:

Sample	Internal Standards	%R (Limits)	Affected Compound	Flag	A or P
L58688-2	¹³ C-PCB 1	10.2 (15-150)	PCB 1 PCB 2 Total monochlorobiphenyls	J (all detects) UJ (all non-detects)	P

X. Target Compound Identifications

Raw data were not reviewed for this SDG.

XI. Compound Quantitation

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDG DPWG46369	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, Upper Green River Basin
Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG
DPWG46369

SDG	Sample	Compound	Flag	A or P	Reason
DPWG46369	L58688-2	PCB 1 PCB 2 Total monochlorobiphenyls	J (all detects) UJ (all non-detects)	P	Internal standards (%R)
DPWG46369	L57772-1 L57794-1 L58246-1 L58657-1 L58657-2 L58688-1 L58688-2 L58688-3 L58708-1 L58791-1 L57772-1DUP	All TCL compounds flagged "K" by the laboratory as estimated maximum possible concentration.	U	A	Compound quantitation (EMPC)

Lower Duwamish Waterway, Upper Green River Basin
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG DPWG46369

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG46369	L57772-1	PCB 11 PCB 20+28 PCB 61+70+74+76 PCB 85+116+117 PCB 129+138+160+163 PCB 147+149 PCB 153+168 PCB 180+193 PCB 209	6.97U pg/L 3.80U pg/L 4.60U pg/L 1.93U pg/L 7.46U pg/L 4.93U pg/L 4.59U pg/L 3.25U pg/L 2.75U pg/L	A
DPWG46369	L57794-1	PCB 20+28 PCB 31 PCB 37 PCB 49+69 PCB 56 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 105 PCB 118 PCB 129+138+160+163 PCB 147+149 PCB 153+168 PCB 180+193 PCB 187	4.50U pg/L 2.98U pg/L 2.02U pg/L 2.68U pg/L 2.05U pg/L 5.87U pg/L 2.62U pg/L 3.95U pg/L 1.59U pg/L 3.39U pg/L 7.11U pg/L 3.65U pg/L 5.54U pg/L 4.36U pg/L 3.20U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG46369	L58246-1	PCB 11 PCB 20+28 PCB 25 PCB 31 PCB 49+69 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 105 PCB 118 PCB 129+138+160+163 PCB 153+168 PCB 187 PCB 209	8.58U pg/L 6.23U pg/L 1.36U pg/L 2.48U pg/L 2.12U pg/L 4.64U pg/L 2.26U pg/L 2.10U pg/L 1.60U pg/L 3.43U pg/L 5.15U pg/L 4.13U pg/L 1.57U pg/L 1.30U pg/L	A
DPWG46369	L58657-1	PCB 20+28 PCB 31 PCB 49+69 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 105 PCB 118 PCB 129+138+160+163 PCB 147+149 PCB 153+168 PCB 180+193 PCB 187 PCB 209	4.04U pg/L 2.48U pg/L 2.57U pg/L 6.96U pg/L 2.97U pg/L 2.59U pg/L 2.03U pg/L 4.07U pg/L 4.74U pg/L 2.86U pg/L 4.41U pg/L 1.49U pg/L 1.55U pg/L 1.40U pg/L	A
DPWG46369	L58657-2	PCB 11 PCB 20+28 PCB 31 PCB 37 PCB 44+47+65 PCB 45+51 PCB 49+69 PCB 61+70+74+76 PCB 118 PCB 147+149 PCB 153+168 PCB 180+193	8.97U pg/L 3.99U pg/L 2.38U pg/L 1.07U pg/L 11.8U pg/L 2.77U pg/L 1.91U pg/L 3.86U pg/L 1.79U pg/L 2.05U pg/L 3.24U pg/L 1.59U pg/L	A
DPWG46369	L58688-1	PCB 11 PCB 16 PCB 20+28 PCB 25 PCB 31 PCB 37 PCB 44+47+65 PCB 49+69 PCB 60 PCB 61+70+74+76 PCB 105 PCB 118 PCB 129+138+160+163 PCB 153+168 PCB 187	7.29U pg/L 1.12U pg/L 7.09U pg/L 0.776U pg/L 4.18U pg/L 3.13U pg/L 15.1U pg/L 2.07U pg/L 1.13U pg/L 6.49U pg/L 2.10U pg/L 4.58U pg/L 4.16U pg/L 2.94U pg/L 1.84U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG46369	L58688-2	PCB 7 PCB 11 PCB 20+28 PCB 31 PCB 37 PCB 44+47+65 PCB 56 PCB 60 PCB 61+70+74+76 PCB 85+116+117 PCB 105 PCB 129+138+160+163 PCB 147+149 PCB 153+168 PCB 174 PCB 180+193	3.14U pg/L 13.5U pg/L 3.97U pg/L 2.73U pg/L 1.27U pg/L 12.3U pg/L 1.24U pg/L 1.03U pg/L 5.07U pg/L 1.21U pg/L 1.30U pg/L 7.99U pg/L 5.18U pg/L 8.52U pg/L 1.84U pg/L 6.19U pg/L	A
DPWG46369	L58688-3	PCB 11 PCB 20+28 PCB 25 PCB 31 PCB 37 PCB 49+69 PCB 60 PCB 61+70+74+76 PCB 66 PCB 105 PCB 118 PCB 129+138+160+163 PCB 147+149 PCB 153+168	15.0U pg/L 3.91U pg/L 0.668U pg/L 2.66U pg/L 0.847U pg/L 4.19U pg/L 0.997U pg/L 4.33U pg/L 2.24U pg/L 0.837U pg/L 1.89U pg/L 3.04U pg/L 1.82U pg/L 2.19U pg/L	A
DPWG46369	L58708-1	PCB 11 PCB 20+28 PCB 25 PCB 31 PCB 37 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 85+116+117 PCB 118 PCB 132 PCB 147+149 PCB 153+168 PCB 180+193 PCB 187 PCB 209	9.28U pg/L 5.30U pg/L 1.12U pg/L 2.30U pg/L 1.03U pg/L 5.32U pg/L 2.69U pg/L 2.70U pg/L 1.40U pg/L 3.45U pg/L 1.84U pg/L 3.30U pg/L 4.04U pg/L 1.92U pg/L 1.36U pg/L 1.85U pg/L	A
DPWG46369	L58791-1	PCB 11 PCB 20+28 PCB 25 PCB 31 PCB 37 PCB 49+69 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 118 PCB 129+138+160+163 PCB 147+149 PCB 153+168	7.69U pg/L 4.96U pg/L 1.17U pg/L 2.58U pg/L 0.894U pg/L 2.33U pg/L 4.87U pg/L 2.62U pg/L 2.15U pg/L 2.86U pg/L 3.89U pg/L 2.97U pg/L 2.97U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG46369	L57772-1DUP	PCB 8 PCB 11 PCB 16 PCB 20+28 PCB 49+69 PCB 56 PCB 60 PCB 61+70+74+76 PCB 66 PCB 83+99 PCB 118 PCB 129+138+160+163 PCB 135+151+154 PCB 147+149 PCB 153+168 PCB 180+193 PCB 187 PCB 209	2.39U pg/L 10.7U pg/L 1.76U pg/L 6.61U pg/L 2.77U pg/L 2.14U pg/L 1.06U pg/L 6.95U pg/L 3.79U pg/L 3.49U pg/L 5.71U pg/L 7.60U pg/L 2.07U pg/L 4.62U pg/L 6.58U pg/L 3.27U pg/L 2.39U pg/L 1.31U pg/L	A

LDC #: 31369A31

VALIDATION COMPLETENESS WORKSHEET

Date: 2-28-14

SDG #: DPWG46369

Level III

Page: 1 of 1

Laboratory: AXYS Analytical Services Ltd.

Reviewer: OPm

2nd Reviewer: AT

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: 4/18/13 → 9/19/13
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	≤ 20
IV.	Routine calibration/4CV	A	≤ 30/50
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates /DUP	N/A	client /D = 1+11
VII.	Laboratory control samples	A	OPR
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	SW	
X.	Target compound identifications	N	
XI.	Compound quantitation RL/LOQ/LODs-	SW	
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:

Water

1	L57772-1	11	L57772-1DUP	21		31	
2	L57794-1	12		22		32	
3	L58246-1	13		23		33	
4	L58657-1	14		24		34	
5	L58657-2	15		25		35	
6	L58688-1	16		26		36	
7	L58688-2	17		27		37	
8	L58688-3	18		28		38	
9	L58708-1	19		29		39	
10	L58791-1	20		30	WG45859-101	40	

LDC #: 31369A31

VALIDATION FINDINGS WORKSHEET

Blanks

Page: / of 1

Reviewer: CJM

2nd Reviewer: K

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?**Blank extraction date:** 12/10/13 **Blank analysis date:** 01/11/14**Associated samples:** All Qual U**Conc. units:** pg/L

Compound	Blank ID		Sample Identification								
	WG45859-101	5x	1	11	2	3	4	5	6	7	
PCB 7	2.97	14.9									3.14
PCB 8	1.10	5.50		2.39							
PCB 11	6.42	32.1	6.97	10.7		8.58		8.97	7.29		13.5
PCB 16	0.789	3.95		1.76							1.12
PCB 20+28	5.28	26.4	3.80	6.61	4.50	6.23	4.04	3.99	7.09		3.97
PCB 25	0.519	2.60				1.36					0.776
PCB 31	2.73	13.65			2.98	2.48	2.48	2.38	4.18		2.73
PCB 37	1.13	5.65			2.02				1.07	3.13	1.27
PCB 44+47+65	3.95	19.75							11.8	15.1	12.3
PCB 45+51	1.06	5.30							2.77		
PCB 49+69	2.13	10.65		2.77	2.68	2.12	2.57	1.91	2.07		
PCB 56	1.42	7.10		2.14	2.05						1.24
PCB 60	1.04	5.20		1.06							1.13
PCB 61+70+74+76	4.98	24.9	4.60	6.95	5.87	4.64	6.96	3.86	6.49		5.07
PCB 66	2.79	14.0		3.79	2.62	2.26	2.97				
PCB 83+99	3.46	17.3		3.49	3.95	2.10	2.59				
PCB 85+116+117	1.16	5.80	1.93								1.21
PCB 105	2.00	10.00			1.59	1.60	2.03		2.10		1.30
PCB 118	4.85	24.25		5.71	3.39	3.43	4.07	1.79	4.58		

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2064

Compound	Blank ID		Sample Identification							
	WG45859-101	5x	1	11	2	3	4	5	6	7
PCB 129+138+160+163	14.7	73.5	7.46	7.60	7.11	5.15	4.74		4.16	7.99
PCB 132	2.33	11.7								
PCB 135+151+154	2.33	11.7		2.07						
PCB 141	1.81	9.05								
PCB 147+149	5.39	27.0	4.93	4.62	3.65		2.86	2.05		5.18
PCB 153+168	12.5	62.5	4.59	6.58	5.54	4.13	4.41	3.24	2.94	8.52
PCB 158	1.07	5.35								
PCB 170	5.06	25.3								
PCB 174	2.22	11.1								1.84
PCB 177	2.21	11.1								
PCB 180+193	11.1	55.5	3.25	3.27	4.36		1.49	1.59		6.19
PCB 187	6.48	32.4		2.39	3.20	1.57	1.55		1.84	
PCB 194	2.70	13.5								
PCB 195	1.07	5.35								
PCB 203	3.18	15.9								
PCB 206	4.96	24.8								
PCB 209	2.35	11.8	2.75	1.31		1.30	1.40			
Total Dichloro Biphenyls	10.5	52.5								
Total Trichloro Biphenyls	10.4	52.0								
Total Tetrachloro Biphenyls	17.4	87.0								
Total Pentachloro Biphenyls	11.5	57.5								
Total Hexachloro Biphenyls	40.1	200.5								
Total Heptachloro Biphenyls	27.1	135.5								
Total Octachloro Biphenyls	6.95	34.8								
Total Nonachloro Biphenyls	4.96	24.8								

*EMPC (flagged "K") considered ND ("U")

All contaminants within five times the method blank concentration were qualified as not detected.

LDC #: 31369A31

VALIDATION FINDINGS WORKSHEET

Blanks

Page: 3 of 4

Reviewer: DW

2nd Reviewer:

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?**Blank extraction date:** 12/10/13 **Blank analysis date:** 01/11/14 **Associated samples:** All Qual U**Conc. units:** pg/L

Compound	Blank ID	5x	Sample Identification						
			8	9	10				
PCB 7	2.97	14.9							
PCB 8	1.10	5.50							
PCB 11	6.42	32.1	15.0	9.28	7.69				
PCB 16	0.789	3.95							
PCB 20+28	5.28	26.4	3.91	5.30	4.96				
PCB 25	0.519	2.60	0.668	1.12	1.17				
PCB 31	2.73	13.65	2.66	2.30	2.58				
PCB 37	1.13	5.65	0.847	1.03	0.894				
PCB 44+47+65	3.95	19.75							
PCB 45+51	1.06	5.30							
PCB 49+69	2.13	10.65	4.19		2.33				
PCB 56	1.42	7.10							
PCB 60	1.04	5.20	0.997						
PCB 61+70+74+76	4.98	24.9	4.33	5.32	4.87				
PCB 66	2.79	14.0	2.24	2.69	2.62				
PCB 83+99	3.46	17.3		2.70	2.15				
PCB 85+116+117	1.16	5.80		1.40					
PCB 105	2.00	10.00	0.837						
PCB 118	4.85	24.25	1.89	3.45	2.86				

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4804

orh

Compound	Blank ID		Sample Identification						
	WG45859-101	5x	8	9	10				
PCB 129+138+160+163	14.7	73.5	3.04		3.89				
PCB 132	2.33	11.7		1.84					
PCB 135+151+154	2.33	11.7							
PCB 141	1.81	9.05							
PCB 147+149	5.39	27.0	1.82	3.30	2.97				
PCB 153+168	12.5	62.5	2.19	4.04	2.97				
PCB 158	1.07	5.35							
PCB 170	5.06	25.3							
PCB 174	2.22	11.1							
PCB 177	2.21	11.1							
PCB 180+193	11.1	55.5		1.92					
PCB 187	6.48	32.4			1.36				
PCB 194	2.70	13.5							
PCB 195	1.07	5.35							
PCB 203	3.18	15.9							
PCB 206	4.96	24.8							
PCB 209	2.35	11.8		1.85					
Total Dichloro Biphenyls	10.5	52.5							
Total Trichloro Biphenyls	10.4	52.0							
Total Tetrachloro Biphenyls	17.4	87.0							
Total Pentachloro Biphenyls	11.5	57.5							
Total Hexachloro Biphenyls	40.1	200.5							
Total Heptachloro Biphenyls	27.1	135.5							
Total Octachloro Biphenyls	6.95	34.8							
Total Nonachloro Biphenyls	4.96	24.8							

*EMPC (flagged "K") considered ND ("U")

All contaminants within five times the method blank concentration were qualified as not detected.

LDC #: 31369A31

VALIDATION FINDINGS WORKSHEET

Internal Standards

Page: 1 of 1

Reviewer: JM

2nd Reviewer: sl

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 within the QC criteria?

Y N N/A Was the S/N ratio all internal standard peaks > 10?

LDC #: 31369A31

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: TM
2nd Reviewer: JK

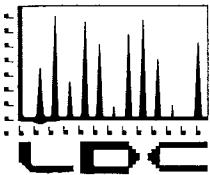
METHOD: HRGC/HRMS PCB Congeners (EPA Method 1668A)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A
Y N 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: _____



LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

King County Environmental Laboratory
322 W. Ewing Street
Seattle WA 98119
ATTN: Mr. Fritz Grothkopp

October 9, 2014

SUBJECT: Lower Duwamish Waterway, Upper Green River Basin, Data Validation

Dear Mr. Grothkopp,

Enclosed is the final validation report for the fraction listed below. This SDG was received on April 22, 2014. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 31695:

<u>SDG #</u>	<u>Fraction</u>
DPWG46803	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:

- King County. 2011c. Green River Loading Study – Sampling and Analysis Plan. Prepared by Deb Lester, Richard Jack, and Debra Williston. Water and Land Resources Division. Seattle, Washington.
- King County. 2013a. Upper Green River Basin Water Quality Survey – Sampling and Analysis Plan. Prepared by Carly Greyell, Debra Williston, and Deb Lester. King County Water and Land Resources Division. Seattle, Washington.
- King County. 2013b. Green River Study Addendum – Sampling and Analysis Plan. Prepared by Deb Lester. Water and Land Resources Division. Seattle, Washington.

Please feel free to contact us if you have any questions.

Sincerely,

Stella S. Cuenco
Operations Manager/Senior Chemist

LDC #31695 (King County - Seattle WA / Lower Duwamish Waterway, Upper Green River Basin)

Project #

Shaded cells indicate Level IV validation (all other cells are Level II validation). These sample counts do not include MS/MSD, and DUPS.

31695ST.wpd

Laboratory Data Consultants, Inc. Data Validation Report

Project/Site Name: Lower Duwamish Waterway, Upper Green River Basin
Collection Date: October 1, 2013 through January 29, 2014
LDC Report Date: May 9, 2014
Matrix: Water
Parameters: Polychlorinated Biphenyls as Congeners
Validation Level: EPA Level III
Laboratory: AXYS Analytical Services, Ltd.
Sample Delivery Group (SDG): DPWG46803

Sample Identification

L58861-1
L58861-2
L58861-3
L58976-1
L58976-2
L59148-1
L59148-2
L59148-3
L59149-1
L59239-1
L59240-1
L59240-2
L59470-1
L59470-2
L59595-1
L59470-1DUP

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 Upper Green River Basin Water Sampling and Analysis Plan (August 2013) and EPA Region 10 SOP for the Validation of Polychlorinated Biphenyl (PCB) Data (Revision 1.0, December 8, 1995).

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 congener contaminants were found in the method blanks with the following exceptions:

Method Blank ID	Extraction Date	Compound	Concentration	Associated Samples
WG46443-101	2/6/14	PCB 1 PCB 11 PCB 18+30 PCB 20+28 PCB 31 PCB 32 PCB 44+47+65 PCB 61+70+74+76 PCB 66 PCB 153+168 PCB 180+193 Total Monochloro Biphenyls Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls	2.42 pg/L 8.45 pg/L 3.46 pg/L 3.28 pg/L 2.49 pg/L 0.871 pg/L 3.22 pg/L 3.18 pg/L 1.34 pg/L 2.08 pg/L 1.48 pg/L 2.42 pg/L 8.45 pg/L 10.1 pg/L 7.74 pg/L 2.08 pg/L 1.48 pg/L	L58861-1 L58861-2 L58861-3 L58976-1 L58976-2 L59148-1 L59148-2 L59148-3 L59149-1 L59240-1 L59240-2 L59470-1 L59470-2 L59595-1 L59470-1DUP
WG46653-101	3/7/14	PCB 1 PCB 2 PCB 11 PCB 20+28 PCB 21+33 PCB 22 PCB 31 PCB 32 PCB 44+47+65 PCB 49+69 PCB 52 PCB 61+70+74+76 PCB 86+87+97+108+119+125 PCB 105 PCB 118 Total Monochloro Biphenyls Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls	1.50 pg/L 1.47 pg/L 12.7 pg/L 3.23 pg/L 1.25 pg/L 0.844 pg/L 2.09 pg/L 0.560 pg/L 2.29 pg/L 1.25 pg/L 3.08 pg/L 5.22 pg/L 2.52 pg/L 1.37 pg/L 3.24 pg/L 2.97 pg/L 12.7 pg/L 7.97 pg/L 11.8 pg/L 7.13 pg/L	L59239-1

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
L58861-1	PCB 11 PCB 18+30 PCB 20+28 PCB 31 PCB 32 PCB 44+47+65 PCB 61+70+74+76 PCB 66	10.0 pg/L 3.98 pg/L 4.62 pg/L 3.21 pg/L 0.921 pg/L 9.23 pg/L 3.72 pg/L 1.72 pg/L	10.0U pg/L 3.98U pg/L 4.62U pg/L 3.21U pg/L 0.921U pg/L 9.23U pg/L 3.72U pg/L 1.72U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L58861-2	PCB 1 PCB 11 PCB 18+30 PCB 20+28 PCB 44+47+65 PCB 61+70+74+76	1.94 pg/L 7.21 pg/L 1.40 pg/L 2.70 pg/L 8.85 pg/L 5.37 pg/L	1.94U pg/L 7.21U pg/L 1.40U pg/L 2.70U pg/L 8.85U pg/L 5.37U pg/L
L58861-3	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 32 PCB 44+47+65 PCB 61+70+74+76	1.90 pg/L 13.9 pg/L 3.40 pg/L 2.31 pg/L 0.586 pg/L 12.0 pg/L 4.34 pg/L	1.90U pg/L 13.9U pg/L 3.40U pg/L 2.31U pg/L 0.586U pg/L 12.0U pg/L 4.34U pg/L
L58976-1	PCB 1 PCB 18+30 PCB 44+47+65 PCB 61+70+74+76	2.10 pg/L 1.53 pg/L 7.27 pg/L 2.79 pg/L	2.10U pg/L 1.53U pg/L 7.27U pg/L 2.79U pg/L
L58976-2	PCB 1 PCB 11 PCB 18+30 PCB 20+28 PCB 31 PCB 44+47+65 PCB 61+70+74+76 PCB 66	1.20 pg/L 5.76 pg/L 1.62 pg/L 2.81 pg/L 1.76 pg/L 8.64 pg/L 5.07 pg/L 1.88 pg/L	1.20U pg/L 5.76U pg/L 1.62U pg/L 2.81U pg/L 1.76U pg/L 8.64U pg/L 5.07U pg/L 1.88U pg/L
L59148-1	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 61+70+74+76 PCB 66 PCB 153+168	3.37 pg/L 12.6 pg/L 4.50 pg/L 3.26 pg/L 3.81 pg/L 1.80 pg/L 6.28 pg/L	3.37U pg/L 12.6U pg/L 4.50U pg/L 3.26U pg/L 3.81U pg/L 1.80U pg/L 6.28U pg/L
L59148-2	PCB 1 PCB 11 PCB 18+30 PCB 20+28 PCB 31 PCB 44+47+65 PCB 61+70+74+76	2.59 pg/L 16.1 pg/L 1.79 pg/L 3.74 pg/L 2.48 pg/L 10.0 pg/L 3.42 pg/L	2.59U pg/L 16.1U pg/L 1.79U pg/L 3.74U pg/L 2.48U pg/L 10.0U pg/L 3.42U pg/L
L59148-3	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 44+47+65 PCB 66 PCB 180+193	2.43 pg/L 18.0 pg/L 3.27 pg/L 2.35 pg/L 11.3 pg/L 1.38 pg/L 0.942 pg/L	2.43U pg/L 18.0U pg/L 3.27U pg/L 2.35U pg/L 11.3U pg/L 1.38U pg/L 0.942U pg/L
L59149-1	PCB 1 PCB 18+30 PCB 32 PCB 61+70+74+76 PCB 66 PCB 153+168	2.76 pg/L 12.6 pg/L 3.97 pg/L 11.5 pg/L 5.59 pg/L 4.04 pg/L	2.76U pg/L 12.6U pg/L 3.97U pg/L 11.5U pg/L 5.59U pg/L 4.04U pg/L

Sample	Compound	Reported Concentration	Modified Final Concentration
L59240-1	PCB 1 PCB 11 PCB 18+30 PCB 31 PCB 61+70+74+76 PCB 180+193	2.83 pg/L 12.7 pg/L 1.71 pg/L 2.52 pg/L 4.75 pg/L 5.81 pg/L	2.83U pg/L 12.7U pg/L 1.71U pg/L 2.52U pg/L 4.75U pg/L 5.81U pg/L
L59240-2	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 32 PCB 44+47+65 PCB 66 PCB 153+168 PCB 180+193	3.27 pg/L 14.1 pg/L 5.68 pg/L 3.59 pg/L 0.956 pg/L 8.69 pg/L 2.51 pg/L 4.93 pg/L 2.89 pg/L	3.27U pg/L 14.1U pg/L 5.68U pg/L 3.59U pg/L 0.956U pg/L 8.69U pg/L 2.51U pg/L 4.93U pg/L 2.89U pg/L
L59470-1	PCB 1 PCB 11 PCB 18+30 PCB 20+28 PCB 31 PCB 153+168	2.36 pg/L 10.4 pg/L 3.70 pg/L 11.0 pg/L 8.03 pg/L 9.35 pg/L	2.36U pg/L 10.4U pg/L 3.70U pg/L 11.0U pg/L 8.03U pg/L 9.35U pg/L
L59470-2	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 32 PCB 61+70+74+76 PCB 66 PCB 180+193	2.87 pg/L 14.2 pg/L 3.46 pg/L 2.01 pg/L 0.686 pg/L 3.83 pg/L 1.52 pg/L 1.07 pg/L	2.87U pg/L 14.2U pg/L 3.46U pg/L 2.01U pg/L 0.686U pg/L 3.83U pg/L 1.52U pg/L 1.07U pg/L
L59595-1	PCB 1 PCB 11 PCB 18+30 PCB 20+28 PCB 31 PCB 32 PCB 61+70+74+76 PCB 66 PCB 153+168 PCB 180+193	2.79 pg/L 11.6 pg/L 1.82 pg/L 4.67 pg/L 2.43 pg/L 0.831 pg/L 3.37 pg/L 1.74 pg/L 1.90 pg/L 1.43 pg/L	2.79U pg/L 11.6U pg/L 1.82U pg/L 4.67U pg/L 2.43U pg/L 0.831U pg/L 3.37U pg/L 1.74U pg/L 1.90U pg/L 1.43U pg/L
L59470-1DUP	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 32 PCB 66	2.29 pg/L 11.7 pg/L 6.19 pg/L 3.31 pg/L 0.719 pg/L 5.17 pg/L	2.29U pg/L 11.7U pg/L 6.19U pg/L 3.31U pg/L 0.719U pg/L 5.17U pg/L
L59239-1	PCB 1 PCB 11 PCB 20+28 PCB 21+33 PCB 22 PCB 31 PCB 49+69 PCB 61+70+74+76 PCB 118	1.45 pg/L 13.3 pg/L 7.60 pg/L 1.94 pg/L 1.89 pg/L 2.96 pg/L 1.93 pg/L 6.23 pg/L 2.90 pg/L	1.45U pg/L 13.3U pg/L 7.60U pg/L 1.94U pg/L 1.89U pg/L 2.96U pg/L 1.93U pg/L 6.23U pg/L 2.90U 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/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

All compound quantitations were within validation criteria with the following exceptions:

Sample	Compound	Flag	A or P
All samples in SDGDPWG46803	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, Upper Green River Basin
Polychlorinated Biphenyls as Congeners - Data Qualification Summary - SDG
DPWG46803

SDG	Sample	Compound	Flag	A or P	Reason
DPWG46803	L58861-1 L58861-2 L58861-3 L58976-1 L58976-2 L59148-1 L59148-2 L59148-3 L59149-1 L59239-1 L59240-1 L59240-2 L59470-1 L59470-2 L59595-1 L59470-1DUP	All TCL compounds flagged "K" by the laboratory as estimated maximum possible concentration.	U	A	Compound quantitation (EMPC)

Lower Duwamish Waterway, Upper Green River Basin
Polychlorinated Biphenyls as Congeners - Laboratory Blank Data Qualification Summary - SDG DPWG46803

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG46803	L58861-1	PCB 11 PCB 18+30 PCB 20+28 PCB 31 PCB 32 PCB 44+47+65 PCB 61+70+74+76 PCB 66	10.0U pg/L 3.98U pg/L 4.62U pg/L 3.21U pg/L 0.921U pg/L 9.23U pg/L 3.72U pg/L 1.72U pg/L	A
DPWG46803	L58861-2	PCB 1 PCB 11 PCB 18+30 PCB 20+28 PCB 44+47+65 PCB 61+70+74+76	1.94U pg/L 7.21U pg/L 1.40U pg/L 2.70U pg/L 8.85U pg/L 5.37U pg/L	A
DPWG46803	L58861-3	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 32 PCB 44+47+65 PCB 61+70+74+76	1.90U pg/L 13.9U pg/L 3.40U pg/L 2.31U pg/L 0.586U pg/L 12.0U pg/L 4.34U pg/L	A
DPWG46803	L58976-1	PCB 1 PCB 18+30 PCB 44+47+65 PCB 61+70+74+76	2.10U pg/L 1.53U pg/L 7.27U pg/L 2.79U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG46803	L58976-2	PCB 1 PCB 11 PCB 18+30 PCB 20+28 PCB 31 PCB 44+47+65 PCB 61+70+74+76 PCB 66	1.20U pg/L 5.76U pg/L 1.62U pg/L 2.81U pg/L 1.76U pg/L 8.64U pg/L 5.07U pg/L 1.88U pg/L	A
DPWG46803	L59148-1	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 61+70+74+76 PCB 66 PCB 153+168	3.37U pg/L 12.6U pg/L 4.50U pg/L 3.26U pg/L 3.81U pg/L 1.80U pg/L 6.28U pg/L	A
DPWG46803	L59148-2	PCB 1 PCB 11 PCB 18+30 PCB 20+28 PCB 31 PCB 44+47+65 PCB 61+70+74+76	2.59U pg/L 16.1U pg/L 1.79U pg/L 3.74U pg/L 2.48U pg/L 10.0U pg/L 3.42U pg/L	A
DPWG46803	L59148-3	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 44+47+65 PCB 66 PCB 180+193	2.43U pg/L 18.0U pg/L 3.27U pg/L 2.35U pg/L 11.3U pg/L 1.38U pg/L 0.942U pg/L	A
DPWG46803	L59149-1	PCB 1 PCB 18+30 PCB 32 PCB 61+70+74+76 PCB 66 PCB 153+168	2.76U pg/L 12.6U pg/L 3.97U pg/L 11.5U pg/L 5.59U pg/L 4.04U pg/L	A
DPWG46803	L59240-1	PCB 1 PCB 11 PCB 18+30 PCB 31 PCB 61+70+74+76 PCB 180+193	2.83U pg/L 12.7U pg/L 1.71U pg/L 2.52U pg/L 4.75U pg/L 5.81U pg/L	A
DPWG46803	L59240-2	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 32 PCB 44+47+65 PCB 66 PCB 153+168 PCB 180+193	3.27U pg/L 14.1U pg/L 5.68U pg/L 3.59U pg/L 0.956U pg/L 8.69U pg/L 2.51U pg/L 4.93U pg/L 2.89U pg/L	A

SDG	Sample	Compound	Modified Final Concentration	A or P
DPWG46803	L59470-1	PCB 1 PCB 11 PCB 18+30 PCB 20+28 PCB 31 PCB 153+168	2.36U pg/L 10.4U pg/L 3.70U pg/L 11.0U pg/L 8.03U pg/L 9.35U pg/L	A
DPWG46803	L59470-2	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 32 PCB 61+70+74+76 PCB 66 PCB 180+193	2.87U pg/L 14.2U pg/L 3.46U pg/L 2.01U pg/L 0.686U pg/L 3.83U pg/L 1.52U pg/L 1.07U pg/L	A
DPWG46803	L59595-1	PCB 1 PCB 11 PCB 18+30 PCB 20+28 PCB 31 PCB 32 PCB 61+70+74+76 PCB 66 PCB 153+168 PCB 180+193	2.79U pg/L 11.6U pg/L 1.82U pg/L 4.67U pg/L 2.43U pg/L 0.831U pg/L 3.37U pg/L 1.74U pg/L 1.90U pg/L 1.43U pg/L	A
DPWG46803	L59470-1DUP	PCB 1 PCB 11 PCB 20+28 PCB 31 PCB 32 PCB 66	2.29U pg/L 11.7U pg/L 6.19U pg/L 3.31U pg/L 0.719U pg/L 5.17U pg/L	A
DPWG46803	L59239-1	PCB 1 PCB 11 PCB 20+28 PCB 21+33 PCB 22 PCB 31 PCB 49+69 PCB 61+70+74+76 PCB 118	1.45U pg/L 13.3U pg/L 7.60U pg/L 1.94U pg/L 1.89U pg/L 2.96U pg/L 1.93U pg/L 6.23U pg/L 2.90U pg/L	A

LDC #: 31695A31

VALIDATION COMPLETENESS WORKSHEET

Level III

SDG #: DPWG46803
Laboratory: AXYS Analytical Services Ltd.

Date: 5-7-14

Page: 1 of 1

Reviewer: SP
2nd Reviewer:**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: 10/1/13 → 1/29/14
II.	GC/MS Instrument performance check	A	
III.	Initial calibration	A	≤ 20
IV.	Routine calibration/ICV	A	QC limits
V.	Blanks	SW	
VI.	Matrix spike/Matrix spike duplicates	N/A	C.S. / D = 13+16 ($\leq 5 \times RL$)
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/LQQ/LQDs	SW	
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 worksheetND = No compounds detected
R = Rinsate
FB = Field blankD = Duplicate
TB = Trip blank
EB = Equipment blank

Validated Samples:

WATER

1	L58861-1	11	L59240-1	21		31	
2	L58861-2	12	L59240-2	22		32	
3	L58861-3	13	L59470-1	23		33	
4	L58976-1	14	L59470-2	24		34	
5	L58976-2	15	L59595-1	25		35	
6	L59148-1	16	L59470-1DUP	26		36	
7	L59148-2	17		27		37	
8	L59148-3	18		28		38	
9	L59149-1	19		29	WG 46453-101	39	
10	L59239-1	20		30	WG 46443-101	40	

VALIDATION FINDINGS WORKSHEET
Blanks

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?

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?

Blank extraction date: 02/06/14 Blank analysis date: 02/21/14 Associated samples: 1-9, 11-16 Qual U

Conc. units: pg/L

Compound	Blank ID	5x	Sample Identification								
			1	2	3	4	5	6	7	8	9
PCB 1	2.42	12.1		1.94	1.90	2.10	1.20	3.37	2.59	2.43	2.76
PCB 11	8.45	42.3	10.0	7.21	13.9		5.76	12.6	16.1	18.0	
PCB 18+30	3.46	17.3	3.98	1.40		1.53	1.62		1.79		12.6
PCB 20+28	3.28	16.4	4.62	2.70	3.40		2.81	4.50	3.74	3.27	
PCB 31	2.49	12.5	3.21		2.31		1.76	3.26	2.48	2.35	
PCB 32	0.871	4.4	0.921		0.586						3.97
PCB 44+47+65	3.22	16.1	9.23	8.85	12.0	7.27	8.64		10.0	11.3	
PCB 61+70+74+76	3.18	15.9	3.72	5.37	4.34	2.79	5.07	3.81	3.42		11.5
PCB 66	1.34	6.7	1.72				1.88	1.80		1.38	5.59
PCB 153+168	2.08	10.4						16.28			4.04
PCB 180+193	1.48	7.4								0.942	
Total Monochloro Biphenyls	2.42	12.1									
Total Dichloro Biphenyls	8.45	42.3									
Total Trichloro Biphenyls	10.1	50.5									
Total Tetrachloro Biphenyls	7.74	38.7									
Total Hexachloro Biphenyls	2.08	10.4									
Total Heptachloro Biphenyls	1.48	7.4									

All contaminants within five times the method blank concentration were qualified as not detected.

EMPC values flagged "K" considered "ND"

LDC #: 31695A31

VALIDATION FINDINGS WORKSHEET

Blanks

Page: 2 of 2

Reviewer: Opn2nd Reviewer: 4**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? 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?

Blank extraction date: 02/06/14 Blank analysis date: 02/21/14 Associated samples: 1-9, 11-16 Qual U

Conc. units: pg/L

Compound	Blank ID		Sample Identification							
	WG46443-101	5x	11	12	13	14	15	16		
PCB 1	2.42	12.1	2.83	3.27	2.36	2.87	2.79	2.29		
PCB 11	8.45	42.3	12.7	14.1	10.4	14.2	11.6	11.7		
PCB 18+30	3.46	17.3	1.71		3.70		1.82			
PCB 20+28	3.28	16.4		5.68	11.0	3.46	4.67	6.19		
PCB 31	2.49	12.5	2.52	3.59	8.03	2.01	2.43	3.31		
PCB 32	0.871	4.4		0.956		0.684	0.831	0.719		
PCB 44+47+65	3.22	16.1		8.69						
PCB 61+70+74+76	3.18	15.9	4.75			3.83	3.37			
PCB 66	1.34	6.7		2.51		1.52	1.74	5.17		
PCB 153+168	2.08	10.4		4.93	9.35		1.90			
PCB 180+193	1.48	7.4	5.81	2.89		1.07	1.43			
Total Monochloro Biphenyls	2.42	12.1								
Total Dichloro Biphenyls	8.45	42.3								
Total Trichloro Biphenyls	10.1	50.5								
Total Tetrachloro Biphenyls	7.74	38.7								
Total Hexachloro Biphenyls	2.08	10.4								
Total Heptachloro Biphenyls	1.48	7.4								

All contaminants within five times the method blank concentration were qualified as not detected.

EMPC values flagged "X" considered "ND"

LDC #: 31695A31

VALIDATION FINDINGS WORKSHEET

Blanks

Page: 1 of 2Reviewer: SM2nd Reviewer: OL**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/A Were all samples associated with a method blank? N/A Was a method blank performed for each matrix and whenever a sample extraction was performed? N/A Was the method blank contaminated?Blank extraction date: 03/07/14 Blank analysis date: 03/17/14 Associated samples: 10 Qual UConc. units: pg/L

Compound	Blank ID		Sample Identification									
	WG46653-101	5x	10									
PCB 1	1.50	7.5	1.45									
PCB 2	1.47	7.4										
PCB 11	12.7	63.5	13.3									
PCB 20+28	3.23	16.2	7.60									
PCB 21+33	1.25	6.3	1.94									
PCB 22	0.844	4.2	1.89									
PCB 31	2.09	10.5	2.94									
PCB 32	0.560	2.8										
PCB 44+47+65	2.29	11.5										
PCB 49+69	1.25	6.3	1.93									
PCB 52	3.08	15.4										
PCB 61+70+74+76	5.22	26.1	6.23									
PCB 86+87+97+108+119+125	2.52	12.6										
PCB 105	1.37	6.9										
PCB 118	3.24	16.2	2.90									
Total Monochloro Biphenyls	2.97	14.9										
Total Dichloro Biphenyls	12.7	63.5										

LDC #: 31695A31

VALIDATION FINDINGS WORKSHEET
Blanks

Page: 2 of 2

Reviewer: *JH*2nd Reviewer: *CD***METHOD:** HRGC/HRMS PCB Congeners (EPA Method 1668A)

Compound	Blank ID		Sample Identification								
	WG46653-101	5x									
Total Trichloro Biphenyls	7.97	39.9									
Total Tetrachloro Biphenyls	11.8	59.0									
Total Pentachloro Biphenyls	7.13	35.7									

All contaminants within five times the method blank concentration were qualified as not detected.

EMPC values flagged "L" considered "ND"

LDC #: 31695A31

VALIDATION FINDINGS WORKSHEET

Compound Quantitation and Reported CRQLs

Page: 1 of 1
Reviewer: JM
2nd Reviewer:

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
Y N 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.