Upriver Dam Sediment Sampling Results

Spokane River Upriver Dam PCB Sediment Site

Spokane, Washington

August 2020

Facility Site ID 65178472

Prepared For:

Washington State Department of Ecology
Toxics Cleanup Program
Eastern Regional Office
4601 North Monroe Street
Spokane, Washington 99205

Prepared By:

DH Environmental, Inc.
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Seattle, Washington

November 23, 2020

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Certification

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Prepared For:

Washington State Department of Ecology
Toxics Cleanup Program - Eastern Regional Office
4601 North Monroe Street
Spokane, Washington 99205

Contract Number:

C2000165

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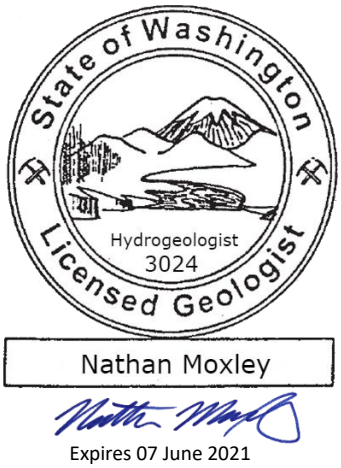
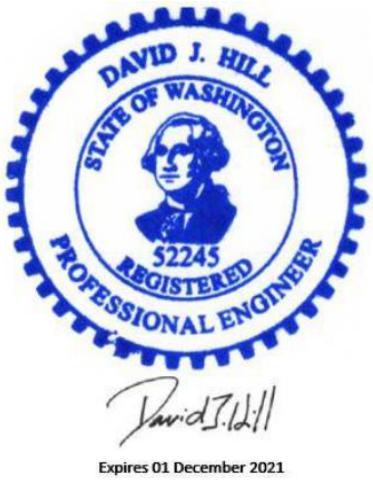


Expires 07 June 2021

Reviewed by:

David J. Hill, PE, CHMM, CPEA
Principal



Expires 01 December 2021

Acronyms and Abbreviations

cm	Centimeters
DGPS	Digital Global Positioning System
DH Environmental	DH Environmental, Inc.
DOT	Department of Transportation
Ecology	Washington State Department of Ecology
EPA	United States Environmental Protection Agency
IDW	Investigation Derived Waste
MBES	Multibeam Echosounder Survey
MDL	Method Detection Limit
mg/kg	milligrams per kilogram
OMMP	Operations Maintenance and Monitoring Plan
PCB	Polychlorinated Biphenyls
PEC	Probable Effects Concentrations
pg/g	picograms per gram
RCRA	Resource Conservation and Recovery Act
RL	Reporting Limit
RM	River Mile
TCLP	Toxicity Characteristic Leaching Procedure
µg/kg	micrograms per kilogram

Section 1: INTRODUCTION

DH Environmental, Inc. (DH Environmental) has prepared this report summarizing the results of sediment sampling conducted at the Upriver Dam Polychlorinated Biphenyl (PCB) Site in Spokane, Washington (Site). Sediment samples were collected in August 2020, under contract number C2000165 with the Washington State Department of Ecology (Ecology). All sampling and associated activities described in this report were conducted in accordance with the Ecology approved Sampling Analysis Plan (SAP; DH Environmental, 2020).

The project name, location, and contact information for the project team are summarized below.

1.1 PROJECT INFORMATION

Project Name:	Upriver Dam PCB Sediment Site Spokane, Washington	
Facility Site ID:	65178472	
Location Coordinates:	47.686640° N, 117.325540° W	
Report Prepared By:	DH Environmental, Inc. 1011 SW Klickitat Way Suite 107 Seattle, WA 98134	
Contact Information:	Nathan Moxley, LHG Project Manager nathan.moxley@dhenviro.com	David Hill, PE, CHMM, CPEA Principal davehill@dhenviro.com
Ecology Project Manager:	Brendan Dowling Toxicologist Toxics Cleanup Unit - Eastern Regional Office WA State Department of Ecology bdow461@ecy.wa.gov	

1.2 SITE DESCRIPTION

The Site is located along the northern shore of the Upriver Dam Reservoir, just upstream from the Upriver Dam, as shown on Figure 1. The Site includes a sediment cap approximately 3.7 aces in size, that extends approximately 2,000-feet in length from the Upriver Dam at approximate river mile [RM] 80.1, to its upper reach at approximate river mile 80.5. Sediments beneath the cap were reported to contain PCB concentrations as high as 20 mg/kg. A remedial action was conducted at the Site in 2006, consisting of an engineered cap to isolate the PCB contaminated sediments from the river and stabilize them from potential erosion. The cap was comprised of a 4- to 6-inch thick layer of granular coal, a 6-inch sand isolation layer, and 3-inch thick gravel armor layer (Ecology, 2015).

1.3 PREVIOUS SAMPLING

The Operations, Monitoring, and Maintenance Plan (OMMP) for the Site required long-term monitoring to verify the integrity and effectiveness of the cap (Anchor Environmental, 2008). The OMMP required bathymetric surveys be conducted to evaluate the cap for settlement or erosion, conduct visual inspection of the cap by divers, and to collect sediment samples from the cap.

Post remediation monitoring events were conducted in 2008 and again in 2010. Monitoring results indicated the cap was intact during both sampling events, and that it was performing as designed (Anchor Environmental, 2009; 2011). No monitoring events were conducted between 2010 and 2020.

Section 2: BATHYMETRIC SURVEY

Prior to collecting sediment samples, a bathymetric survey was conducted to evaluate areas of sediment deposition and/or erosion from the surface of the sediment cap. The bathymetric survey was conducted by Gravity Marine, using a multibeam echosounder survey (MBES), on July 13, 2020. Riverbed elevations obtained from the bathymetric survey are presented on Figure 2.

2.1 COMPARISON OF THE 2020 AND 2010 BATHYMETRIC SURVEYS

The riverbed elevations obtained in 2020 were compared with elevations from the previous survey conducted in 2010 by Anchor QEA (Anchor, 2011). Due to differences in data density between the two surveys, the 2020 survey was compared with large areas of interpolated elevations from the 2010 survey. The 2010 survey was conducted using single beam transects on 25-feet spacing, whereas the 2020 MBES recorded a data point for every square foot of riverbed. As a result, the interpolated survey elevations from 2010 may not actually represent real riverbed conditions, rather they represent the interpolated value between two data points.

The bathymetric survey comparison is presented on Figure 3. In general, no significant erosional scouring or unusual deposition is apparent in the comparison. Two isolated areas of negative elevation differences were identified along the northern boundary of the sediment cap towards the eastern end of the cap, potentially indicative of settlement. Several larger areas of positive elevation differences were identified at the western end of the cap, closer to the dam, potentially indicative of sediment accumulation. The remainder of the cap appears to have minimal differences in elevation between the two surveys. Sediment sampling locations were then selected based on the survey comparison, and in consultation with Ecology, to target areas of apparent deposition and settlement.

Section 3: SEDIMENT SAMPLE COLLECTION

Sediment samples were collected on August 18 and 19, 2020. Samples consisted of eight surface grab samples (ST-01 through ST-06, ST-08, and ST-10) and five subsurface cores (ST-11 through ST-15). No sample was collected at Station ST-07 because there was not enough sediment accumulation on the gravel cap. Instead, a surface grab sample was collected at Station ST-10, which was a designated alternate sample location. No sample was collected from alternate Station ST-09. Sediment sample locations are shown on Figure. Station ST-01 is located within the restricted zone near Upriver Dam, and access to sample at this station had to be coordinated carefully with dam operations.

3.1 STATION LOCATIONS

Surface grab samples were targeted for areas of sediment deposition on top of the cap, and subsurface sediment cores were targeted for areas of potential settlement, as identified by the comparison of the bathymetric surveys. All samples were collected by certified divers from Global Diving and Salvage, of Seattle, Washington. Gravity Marine assisted the dive team by locating each station using a differential global positioning system (DGPS) capable of sub-meter accuracy. The diver at each station carried an ultra-short base line transponder connected to a shipboard receiver on the survey boat that was linked with the DGPS. The combined system allowed the dive team to communicate the station location to the diver in real time with sub-meter accuracy. All samples were collected within 1-meter of the marked coordinates shown on Figure 4.

3.2 SAMPLE COLLECTION

Both surface grab samples and subsurface sediment cores were collected by manually pushing a 3-inch diameter polycarbonate core barrel into the target sediment layer. For surface grab samples, the core was pushed until it met refusal against the gravel armor layer. For subsurface cores, surficial sediment and the gravel armor layer were carefully scraped aside by the divers, and the core barrel was pushed into the underlying layers of the cap until it met refusal. The core was then carefully removed and capped underwater by the divers, and then brought to the surface. At stations where subsurface cores were collected, the gravel was manually scraped back to restore the armor layer as best as possible following sample collection. At each location a minimum of two cores were collected adjacent to each other to ensure enough sediment was retained for laboratory analysis.

Once the cores had been collected from a station, the cores were delivered for processing on shore. Processing consisted of slowly decanting the water from the top of each core, then measuring the sediment recovery and taking photographs. The cores were then extruded onto a tray with a clean plastic liner, and the target interval from each core was collected for laboratory analysis using precleaned stainless steel spoons. A description of each core was recorded on the sediment core log form, which included the water depth, station conditions as reported by the diver, penetration and recovery depths, and a physical description of the sediment.

For surface grab samples, the sample retained for laboratory analysis was limited to the top 10-centimeters (cm) of sediment. If less than 10-cm of sediment was present in a core barrel, the entire volume was included in the sample. If more than 10-cm was present, then the sample was limited to the top 10-cm. For samples of the sand isolation layer, care was taken to ensure no sand was retained for laboratory analysis that had been in direct contact with the underlying coal layer. Similarly, for samples of the coal layer, care was taken to ensure no coal was retained for laboratory analysis that had been in direct contact with the underlying native sediment. During sampling, a blind field duplicate was collected as a split sample from sample *ST-06-Surface Grab*.

Each sample interval retained for laboratory analysis was homogenized in a clean stainless-steel bowl and then placed directly into laboratory supplied sampling containers. Each container was labeled and placed into an iced cooler for storage until it could be delivered to the analytical laboratory. The samples were delivered to Eurofins TestAmerica in Tacoma, Washington, on August 20, 2020, following standard chain of custody protocols. Surface grab samples were submitted for analysis of PCB Aroclors by EPA Method 8082, PCB congeners by EPA Method 1668, and total metals (arsenic, cadmium, copper, lead, and zinc) by EPA Method 6020. Samples from the sand isolation and coal layers were submitted for analysis of PCB Aroclors and congeners by EPA Methods 8082 and 1668, respectively.

Any sample material not retained for laboratory analysis was discarded into Department of Transportation (DOT) approved containers for disposal as investigation derived waste (IDW). The core barrels, core barrel lids, and stainless-steel bowls and spoons were then decontaminated by scrubbing them with a solution of tap water and Alconox detergent, followed by a tap water rinse, and a final rinse with distilled water. All wash and rinse water were containerized as IDW pending receipt of the analytical data.

Copies of the Sediment Core Logs are included in Appendix A. Photos of each sample core are included in Appendix B.

3.3 VISUAL CAP OBSERVATIONS

The gravel armor layer of the cap was present and intact at all stations, as confirmed by visual inspection by the divers during sample collection. No evidence of scouring or other damage to the cap was apparent at any of the sampling stations.

Section 4: ANALYTICAL RESULTS

Analytical results were received on September 16, 2019. All sediment samples were analyzed for PCB Aroclors by EPA Method 8082A, and PCB congeners by EPA Method 1668c. All surface grab samples were also analyzed for total arsenic, cadmium, copper, lead, and zinc by EPA Method 6020B. Validated analytical results for total metals are summarized in Table 1. Validated analytical results for total PCBs are summarized in Table 2. A copy of the laboratory analytical report is included in Appendix C.

Total PCB concentrations were compared with the PCB sediment cleanup level for the Site of 62 micrograms per kilogram (µg/kg). Total metals were screened against the Probable Effects Concentrations (PEC) developed by MacDonald et al, 2000, for the protection of ecological health. All results were reported on a dry weight basis.

4.1 TOTAL PCBS

Only one sample, *ST-14-Coal Layer*, contained total PCB Aroclors greater than the Site sediment cleanup level of 62 µg/kg, with a reported concentration of 69 µg/kg. Sample *ST-06-Surface Grab* was the only other sample with reported total PCB Aroclors at a concentration greater than the laboratory reporting limit. Total PCB Aroclors were reported in sample *ST-06-Surface Grab* at a concentration of 8.6 µg/kg. PCB Aroclors were not reported in any of the remaining samples at a concentration greater than the laboratory reporting limit.

Two samples had reported concentrations of total PCB congeners greater than the Site sediment cleanup level of 62 µg/kg. Total PCB congeners were reported at a concentration of 248,944 picograms per gram (pg/g) in sample *ST-10-Surface Grab* (approximately 248.9 µg/kg), approximately four times greater than the Site cleanup level of 62 µg/kg. Total PCB congeners were reported at a concentration of 97,268 pg/g in sample *ST-14-Coal Layer* (approximately 97.2 µg/kg).

Of important note, neither sand layer samples, *ST-11-Sand Layer* or *ST-13-Sand Layer*, were reported to contain total PCB Aroclors or congeners at a concentration greater than the laboratory reporting limit.

All remaining samples were reported to contain PCB congeners at concentrations greater than the laboratory reporting limit, but with total PCB congeners concentrations less than the site cleanup level of 62 µg/kg.

4.2 TOTAL METALS

Every surface grab sample contained total zinc at reported concentrations greater than the PEC screening level of 459 milligrams per kilogram (mg/kg). Concentrations ranged from 580 mg/kg in sample *ST-08-Surface Grab*, to 3,000 mg/kg in sample *ST-10-Surface Grab*.

Two samples contained cadmium at reported concentrations greater than the PEC screening level of 4.98 mg/kg, samples *ST-06-Surface Grab* and *ST-10-Surface Grab*. Concentrations were reported at a concentration of 6.9 mg/kg, and 29 mg/kg, respectively.

One sample contained lead at reported concentrations greater than the PEC screening level of 128 mg/kg. Total lead was reported in sample *ST-10-Surface Grab* at a concentration of 480 mg/kg.

4.3 DATA VALIDATION

The data was validated in general accordance with the National Functional Guidelines for Organics and Inorganics (EPA, 2017A and 2017B). The data validation primarily resulted in reported detections at the method detection limit (MDL) being reported as non-detect at the laboratory reporting limit (RL), due to detections in the method blank at reported concentrations between the MDL and RL. Several analytes were qualified as estimated in samples *ST-06-Surface Grab* and *Duplicate-1* based on field duplicate relative percent differences. A full summary of the data validation results is included in Appendix D.

Section 5: INVESTIGATION DERIVED WASTE

IDW generated during the sampling event was placed into DOT approved containers, labeled, and transported to Ecology's waste storage facility in Spokane, Washington pending receipt of the analytical data. Upon receipt of the initial analytical report, the data were reviewed for disposal criteria and additional laboratory analysis was requested for leachable metals using the Toxicity Characteristic Leaching Procedure (TCLP) test for the list of Resource Conservation and Recovery Act (RCRA) eight priority metals (the "RCRA 8 Metals"; arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver). Results were received on September 24, 2020, and the data were used to profile the waste stream for disposal to Chemical Waste Management in Arlington, Oregon, a licensed Subtitle C landfill. The IDW was removed from Ecology's storage facility on October 14, 2020. A copy of the TCLP lab data, the disposal profile, and the disposal manifest are included in Appendix E.

Section 6: CONCLUSIONS

Based on the results of the 2020 bathymetric survey, the visual inspection of the cap by divers during this sampling event, and the sediment sampling results for PCBs, the cap appears to be intact and functioning as designed. No evidence of scouring or other damage to the cap was apparent from the bathymetric survey, and divers report the gravel armor layer of the cap was intact at all 13 sampling locations.

Both samples collected from the sand isolation layer, *ST-11-Sand Layer* and *ST-13-Sand Layer*, were not reported to contain any PCB Aroclors or congeners at a concentration greater than the laboratory reporting limit. In addition, four samples were collected from the coal layer at stations ST-12, ST-13, ST-14, and ST-15, and only one sample, *ST-14-Coal Layer*, contained PCBs at a concentration greater than the Site cleanup level of 62 µg/kg. Combined, these data suggest the cap is performing as designed, and is protective of human health and the environment from the perspective of PCB contaminated sediments underlying the cap. The coverage of sampling locations was spread across the entire sediment cap, and no data gaps were identified during this investigation.

Surface sediment was observed to have been deposited on the sediment cap based on diver observations and sediment cores. This was also apparent from the bathymetric survey of the cap and adjacent portions of the riverbed. The surface sediment was found to contain relatively high concentrations of metals, with every surface grab sample containing reported concentrations of zinc that were greater than the PEC screening level of 459 mg/kg. Total zinc concentrations were reported as high as 3,000 mg/kg in sample *ST-10-Surface Grab*. Sample *ST-10-Surface Grab* also contained lead and cadmium at reported concentrations of 480 mg/kg and 29 mg/kg, respectively, both significantly greater than the PEC screening level of 128 mg/kg and 4.98 mg/kg, respectively. Sample *ST-06-Surface Grab* also contained cadmium at reported concentrations of 6.9 mg/kg.

All eight of the surface grab samples were reported to contain PCB congeners, with one of the samples, *ST-10-Surface Grab*, containing a reported concentration of 248,944 pg/g (approximately 248.9 µg/kg), approximately four times greater than the Site sediment cleanup level for PCBs of 62 µg/kg. The accumulated sediment at Station ST-10 consisted almost entirely of organic matter, primarily pine needles, small twigs, and similar material, mixed with fine sand and silt. It is possible this sample may have been affected by the relatively high percentage of organic matter in the sample relative to the other surface grab samples.

The finding of PCBs in surficial sediment at station ST-10 at concentrations approximately four times greater than the Site cleanup level of 62 µg/kg was unexpected. The PCB concentrations

reported in sample *ST-10-Surface Grab* are approximately two orders of magnitude greater than the concentrations reported in the other surface grab samples. Additional sampling in the area around station ST-10 may be warranted to confirm these results, and to determine how widespread potential PCB impacts are in surface sediment in the area around Station ST-10.

The presence of relatively high concentrations of metals in the surficial sediment is not unexpected, given the long history of mining operations upstream of the Upriver Dam Site. Similar concentrations of metals were reported in sediment samples collected at eight separate Sites between the Upriver Dam and the Idaho State Line in 2019 (Ecology, 2019).

Section 7: REFERENCES

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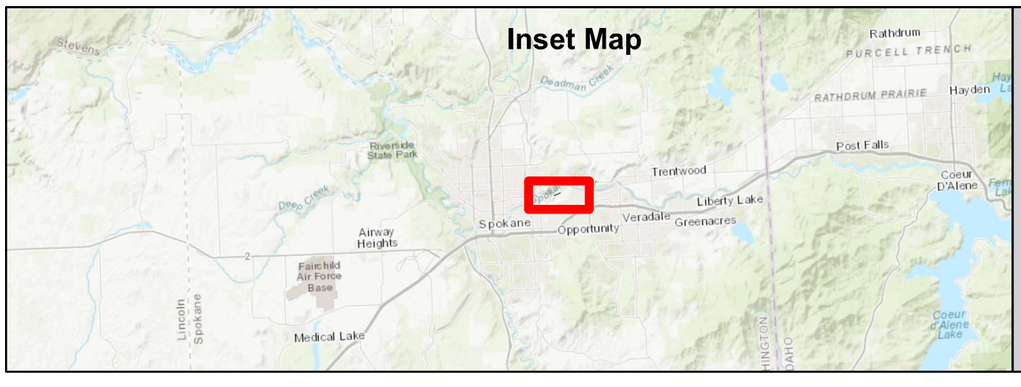


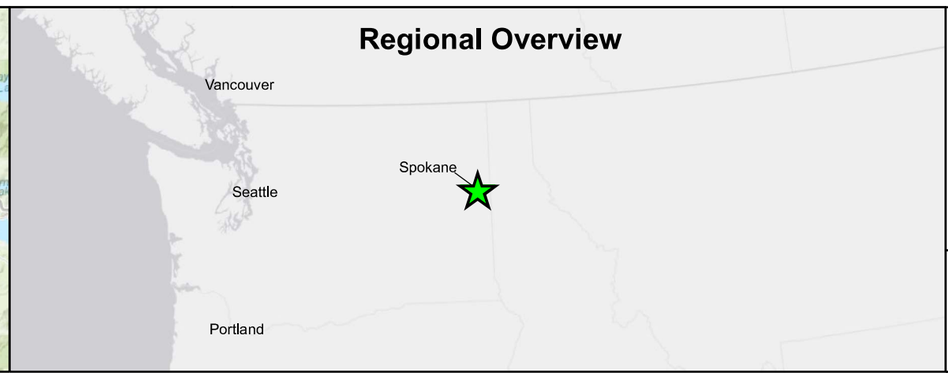
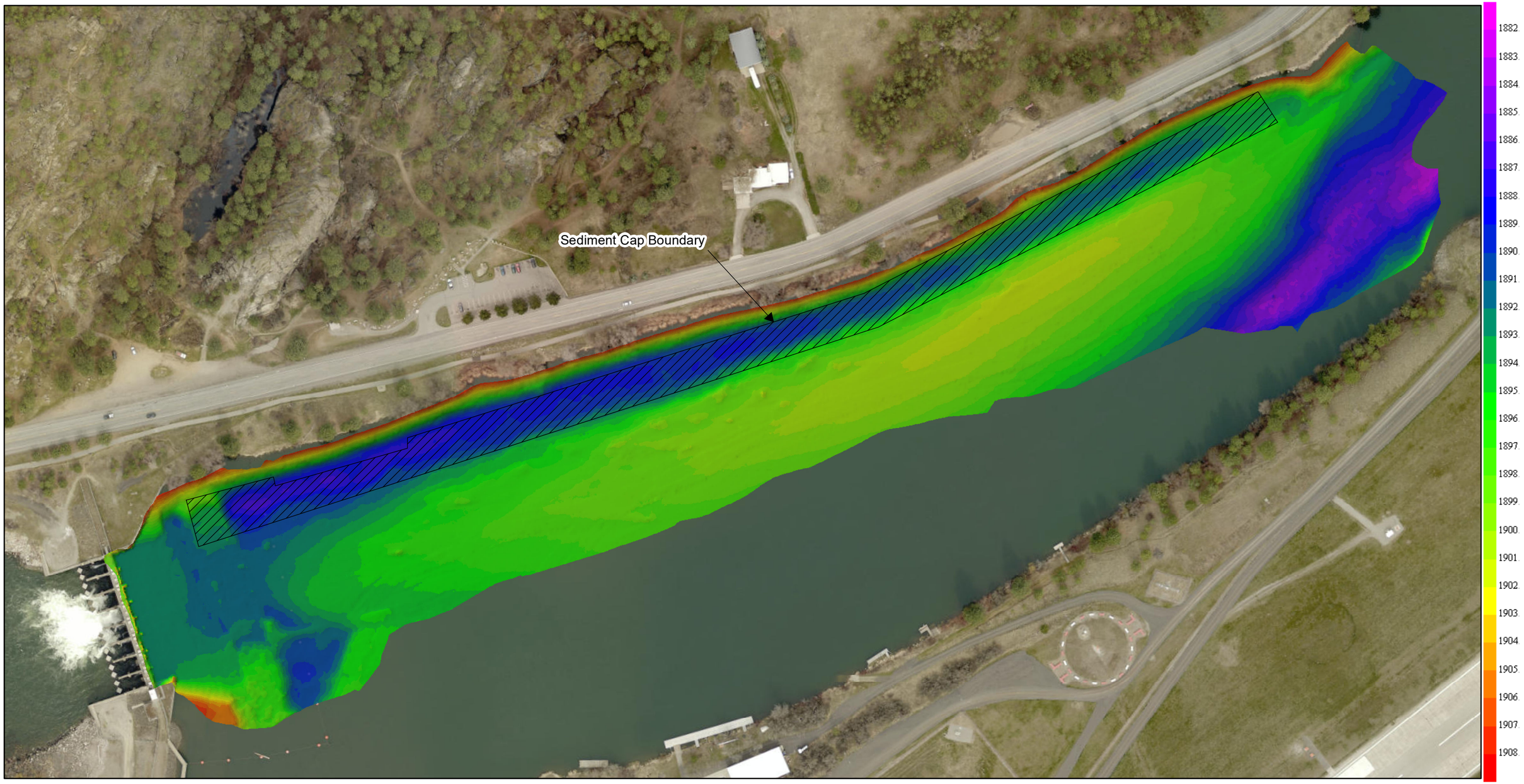


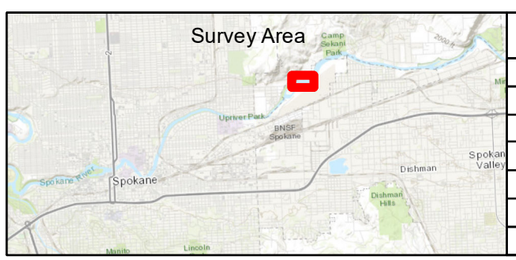
Figure 1

Vicinity Map

Upriver Dam PCB Sediment Site
Spokane River
Spokane, Washington

DH Environmental Inc.





Geodetic Settings		Survey Equipment	
Horizontal Datum	NAD 1983/2011	Multi-Beam Sonar	Ping DSP 3DSS-DX-450
Vertical Datum	NAVD88	Inertial Nav System	Applanix POS MV
Coordinate System	WA North FIPS 4601	RTK Corrections	WSRN EWA via NTRIP
Horizontal Units	US Survey Feet	Speed of Sound	YSI CastAway CTD
Vertical Units	US Survey Feet	Survey Date	July 13th, 2020
Vertical Control	WSRN	Data Collection & Processing Software	HYPACK 2020
Horizontal Control	WSRN	Mapping and Product software	ArcGIS 10.4

0 75 150 300 450 600 Feet

N

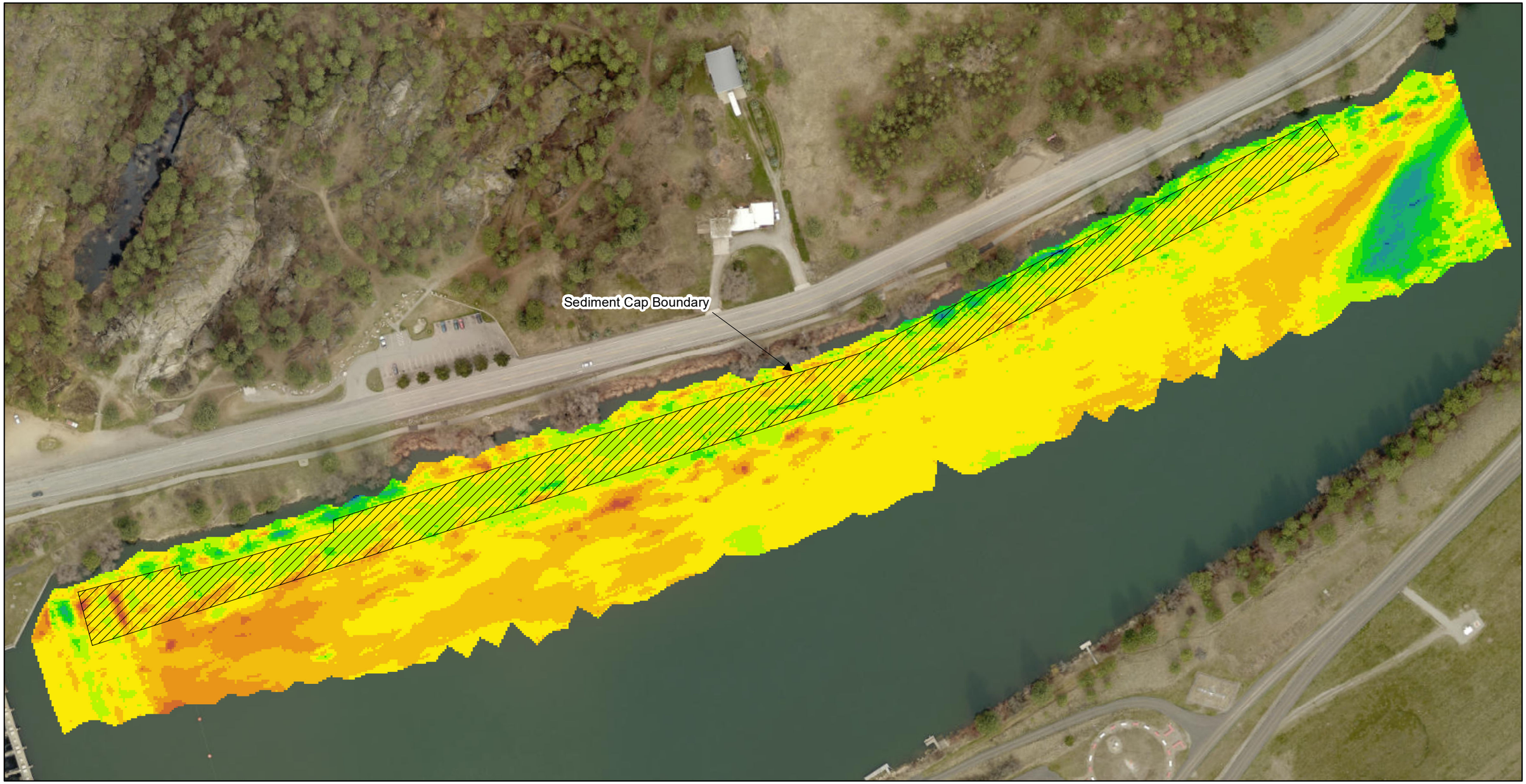
Notes:
1) Vertical elevations converted from raw Ellipsoid height via Geoid Model 12-b
2) GNSS quality control was conducted on WSDOT monument ID: 3020
3) Polylines represent bathymetric contours at 1-foot intervals

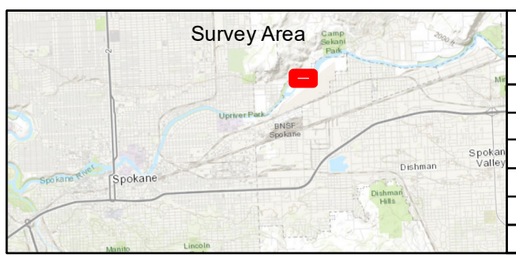
Figure 2
Spokane River Bathymetric Elevations

Upriver Dam Deposit 1 Sediment Cap
July 13, 2020

Data Acquisition:	J.Wilson/R.McEliece
Data Processing:	J.Wilson
Drafted by:	J.Wilson
Reviewed by:	S.Hinz

GRAVITY





Geodetic Settings	
Horizontal Datum	NAD 1983/2011
Vertical Datum	NAVD88
Coordinate System	WA North FIPS 4601
Horizontal Units	US Survey Feet
Vertical Units	US Survey Feet
Vertical Control	WSRN
Horizontal Control	WSRN

Survey Equipment	
Multi-Beam Sonar	Ping DSP 3DSS-DX-450
Inertial Nav System	Applanix POS MV
RTK Corrections	WSRN EWA via NTRIP
Speed of Sound	YSI CastAway CTD
Survey Date	July 13th, 2020
Data Collection & Processing Software	HYPACK 2020
Mapping and Product software	ArcGIS 10.4

0 65 130 260 390 520 Feet

N

Notes
1. Differences calculated by subtracting 2010 from 2020 elevations
2. 2010 data converted from NAD83/07 to NAD83/11 via NCAT
3. Both data sets interpolated to a grid spacing of 3x3 feet

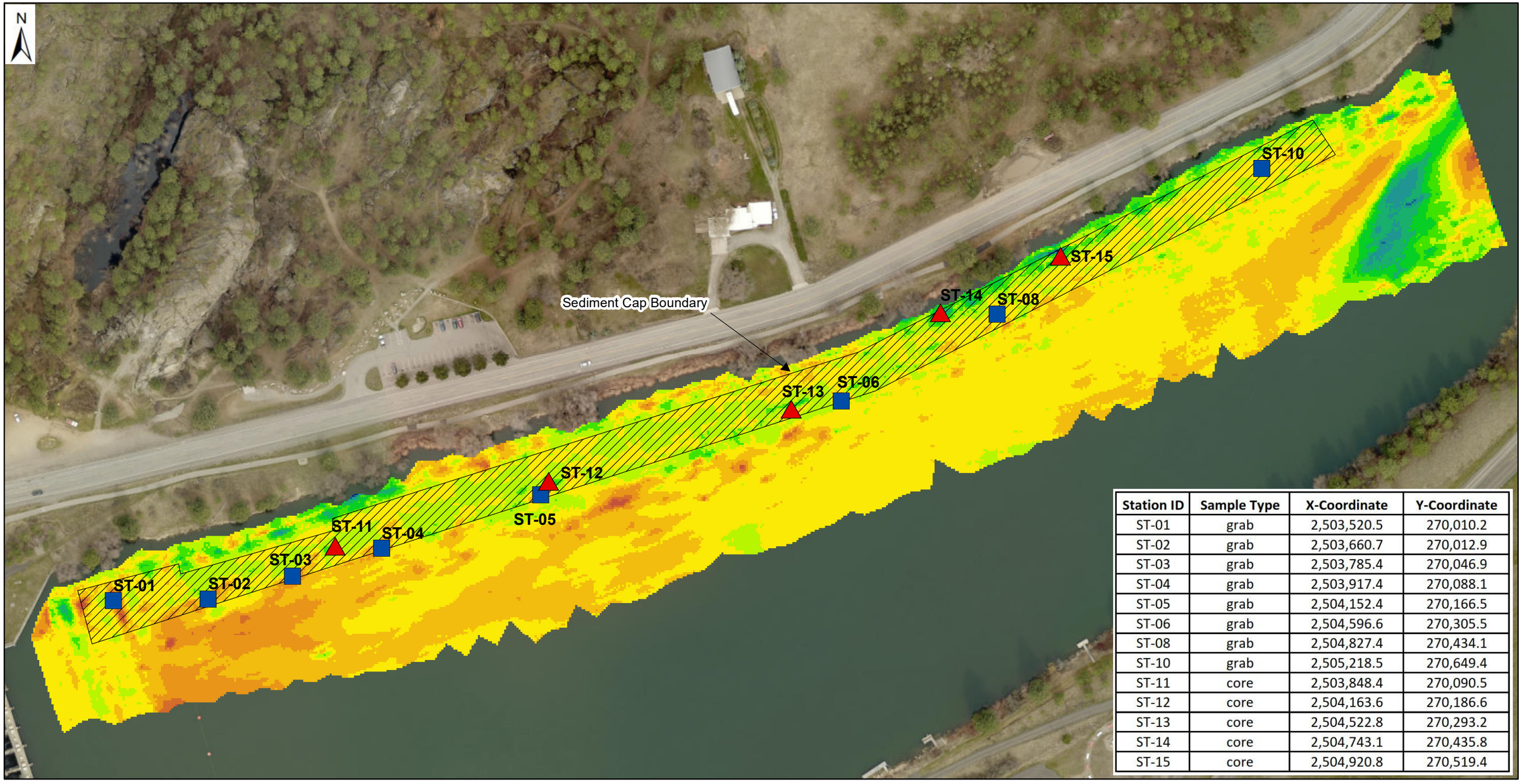
2020 vs 2010 Comparison US Feet

-3.7 - -3.0	-1.4 - -1.0	0.51 - 1.0
-2.9 - -2.5	-0.9 - -0.5	1.1 - 1.5
-2.4 - -2.0	-0.49 - 0.0	1.6 - 2.0
-1.9 - -1.5	0.01 - 0.5	2.1 - 2.5

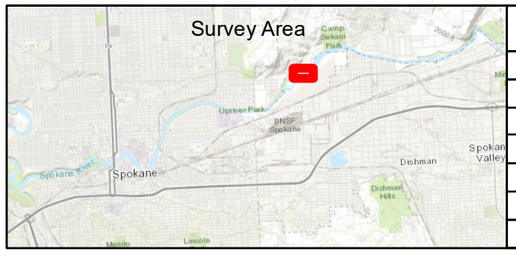
Figure 3
2020 vs. 2010 Bathymetry Comparison
Upriver Dam Deposit 1 Sediment Cap
Spokane River, Spokane, Washington

Data Acquisition:	J.Wilson/R.McEliece
Data Processing:	J.Wilson
Drafted by:	J.Wilson
Reviewed by:	S.Hinz

GRAVITY



Station ID	Sample Type	X-Coordinate	Y-Coordinate
ST-01	grab	2,503,520.5	270,010.2
ST-02	grab	2,503,660.7	270,012.9
ST-03	grab	2,503,785.4	270,046.9
ST-04	grab	2,503,917.4	270,088.1
ST-05	grab	2,504,152.4	270,166.5
ST-06	grab	2,504,596.6	270,305.5
ST-08	grab	2,504,827.4	270,434.1
ST-10	grab	2,505,218.5	270,649.4
ST-11	core	2,503,848.4	270,090.5
ST-12	core	2,504,163.6	270,186.6
ST-13	core	2,504,522.8	270,293.2
ST-14	core	2,504,743.1	270,435.8
ST-15	core	2,504,920.8	270,519.4



Geodetic Settings		Survey Equipment	
Horizontal Datum	NAD 1983/2011	Multi-Beam Sonar	Ping DSP 3DSS-DX-450
Vertical Datum	NAVD88	Inertial Nav System	Applanix POS MV
Coordinate System	WA North FIPS 4601	RTK Corrections	WSRN EWA via NTRIP
Horizontal Units	US Survey Feet	Speed of Sound	YSI CastAway CTD
Vertical Units	US Survey Feet	Survey Date	July 13th, 2020
Vertical Control	WSRN	Data Collection & Processing Software	HYPACK 2020
Horizontal Control	WSRN	Mapping and Product software	ArcGIS 10.4

Core

Grab

0 50 100 200 300 400 Feet

Notes
1. Differences calculated by subtracting 2010 from 2020 elevations
2. 2010 data converted from NAD83/07 to NAD83/11 via NCAT
3. Both data sets interpolated to a grid spacing of 3x3 feet

2020 vs 2010 Comparison US Feet

-3.7 - -3.0	-1.4 - -1.0	0.51 - 1.0
-2.9 - -2.5	-0.9 - -0.5	1.1 - 1.5
-2.4 - -2.0	-0.49 - 0.0	1.6 - 2.0
-1.9 - -1.5	0.01 - 0.5	2.1 - 2.5

Figure 4
Sediment Sample Locations
Upriver Dam Deposit 1 Sediment Cap
Spokane River, Spokane, Washington

Data Acquisition:	J.Wilson/R.McEliece
Data Processing:	J.Wilson
Drafted by:	J.Wilson
Reviewed by:	S.Hinz

GRAVITY
DH Environmental Inc.

Table 1
Sediment Analytical Results Summary - Total Metals
Upriver Dam PCB Site
Spokane River, Spokane, Washington
August 18 - 19, 2020

units shown in mg/kg

Compound	Arsenic	Cadmium	Copper	Lead	Zinc
PEC Screening Level [1]	33	4.98	149	128	459
Sample Name					
ST-01-Surface Grab	7.5	3.3	10	99	**870**
ST-02-Surface Grab	5.8	1.8	7.7	83	**820**
ST-03-Surface Grab	6.1	2.1	8.7	83	**940**
ST-04-Surface Grab	8.0	4.3	7.6	93	**870**
ST-05-Surface Grab	7.4	1.3	7.9	85	**890**
ST-06-Surface Grab	5.2	**6.9 J**	7.4	86	**780**
Duplicate-1	6.7	2.8 J	8.2	86	**860**
ST-08-Surface Grab	5.4	2.2	6.6	61	**580**
ST-10-Surface Grab	21	**29**	34	**480**	**3,000**

Notes:

1. Screening levels developed by MacDonald et al, 2000
2. Detected concentrations greater than the PEC screening level are shaded and **bolded**.

Abbreviations and Symbols

PCB = polychlorinated biphenyls
mg/kg = milligrams per kilogram
PEC = Probable Effects Concentrations
"J" indicates estimated value

Analytical Methods

Samples analyzed for total metals using EPA Method 6020B.

Table 2
Sediment Analytical Results Summary - Total PCBs
Upriver Dam PCB Site
Spokane River, Spokane, Washington
August 18 - 19, 2020

units shown in µg/kg

Sample Name	PCB Cleanup Level [1]	Total PCBs (Aroclors)	Total PCBs (congeners)
ST-01-Surface Grab	62	3.5 U	6.2
ST-02-Surface Grab		2.9 U	4.1
ST-03-Surface Grab		2.7 U	7.0
ST-04-Surface Grab		2.6 U	2.5
ST-05-Surface Grab		2.6 U	3.7
ST-06-Surface Grab		8.6 J	5.9
Duplicate-1 (Duplicate of ST-06-Surface Grab)		2.8 UJ	8.4
ST-08-Surface Grab		2.5 U	5.7
ST-10-Surface Grab		7 U	**248.9**
ST-11-Sand Layer		2.5 U	0.0
ST-12-Coal Layer		3.2 U	16.4
ST-13-Coal Layer		2.8 U	1.6
ST-13-Sand Layer		2.6 U	0.1
ST-14-Coal Layer		**69**	**97.3**
ST-15-Coal Layer		3.2 U	2.8

Notes:

1. Sediment cleanup level of 62 µg/kg as determined by Ecology in the Cleanup Action Plan (Ecology, 2005)
3. Total PCB concentrations greater than the Site cleanup level of 62 µg/kg are shaded and **bolded**.

Abbreviations and Symbols

PCB = polychlorinated biphenyl
ug/kg = micrograms per kilogram
"J" indicates estimated value
"U" = the compound was not detected at a concentration greater than or equal to the indicated laboratory reporting limit.
"UJ" indicates the analyte was not detected above the reported sample quantitation limit and is considered estimated.
Total PCBs = Total PCB concentrations based on the sum of individual Aroclors or congeners detected at a concentration greater than the method detection limit.

Analytical Methods

Samples analyzed for Polychlorinated Biphenyls using EPA Method 8082 and Method 1668C.

Table 3
Sediment Analytical Results Summary - PCBs (all results)

Upriver Dam PCB Site
Spokane River, Spokane, Washington

	Sample ID	ST-01-SURFACE GRAB	ST-02-SURFACE GRAB	ST-03-SURFACE GRAB	ST-04-SURFACE GRAB	ST-05-SURFACE GRAB	ST-06-SURFACE GRAB	DUPLICATE-1 (Duplicate of ST-06-SURFACE GRAB)	ST-08-SURFACE GRAB	ST-10-SURFACE GRAB	ST-11-SAND LAYER	ST-12-COAL LAYER	ST-13-COAL LAYER	ST-13-SAND LAYER	ST-14-COAL LAYER	ST-15-COAL LAYER
Chemical	**Site CUL[1]**															
PCB Aroclors (µg/kg)																
Aroclor 1016	--	3.5 U	2.9 U	2.7 U	2.6 U	2.6 U	2.7 U	2.8 U	2.5 U	7.0 U	2.5 U	3.2 U	2.8 U	2.6 U	3.0 U	3.2 U
Aroclor 1221	--	3.5 U	2.9 U	2.7 U	2.6 U	2.6 U	2.7 U	2.8 U	2.5 U	7.0 U	2.5 U	3.2 U	2.8 U	2.6 U	3.0 U	3.2 U
Aroclor 1232	--	3.5 U	2.9 U	2.7 U	2.6 U	2.6 U	2.7 U	2.8 U	2.5 U	7.0 U	2.5 U	3.2 U	2.8 U	2.6 U	3.0 U	3.2 U
Aroclor 1242	--	3.5 U	2.9 U	2.7 U	2.6 U	2.6 U	2.7 U	2.8 U	2.5 U	7.0 U	2.5 U	3.2 U	2.8 U	2.6 U	3.0 U	3.2 U
Aroclor 1248	--	3.5 U	2.9 U	2.7 U	2.6 U	2.6 U	**8.6 J**	2.8 UJ	2.5 U	7.0 U	2.5 U	3.2 U	2.8 U	2.6 U	**69**	3.2 U
Aroclor 1254	--	3.5 U	2.9 U	2.7 U	2.6 U	2.6 U	2.7 U	2.8 U	2.5 U	7.0 U	2.5 U	3.2 U	2.8 U	2.6 U	3.0 U	3.2 U
Aroclor 1260	--	3.5 U	2.9 U	2.7 U	2.6 U	2.6 U	2.7 U	2.8 U	2.5 U	7.0 U	2.5 U	3.2 U	2.8 U	2.6 U	3.0 U	3.2 U
Total PCB Aroclors	62	--	--	--	--	--	**8.6**	--	--	--	--	--	--	--	**69**	--
PCB Congeners (pg/g)																
PCB-001	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	29 U	26 U	160 U	32 U
PCB-002	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	29 U	26 U	160 U	32 U
PCB-003	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	29 U	26 U	160 U	32 U
PCB-004	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	**8.1 J**	**410**	26 U	**35 J**	150 U	26 U	**170**	160 U
PCB-005	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	**110 J**	26 U	160 U	150 U	26 U	160 U	160 U
PCB-006	--	**5.8 J+**	**6.1 J**	**9.4 J**	**3.1 J**	27 U	**6.2 J**	**8.3 J**	**6.2 J**	**430**	26 U	**39 J+**	150 U	26 U	**200**	160 U
PCB-007	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	**79 J**	26 U	160 U	150 U	26 U	160 U	160 U
PCB-008	--	**41**	**42**	**60**	**24 J**	**29**	**32**	**49**	**27**	**2400**	26 U	**260**	**29 J**	26 U	**1000**	**40 J**
PCB-009	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	**110 J**	26 U	160 U	150 U	26 U	**48 J**	160 U
PCB-010	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-011	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-012/013	--	**14 J**	**17 J**	**19 J**	**12 J**	**8.6 J+**	**16 J**	**19 J**	**14 J**	**320 J**	53 U	310 U	290 U	51 U	**150 J**	320 U
PCB-014	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-015	--	**210**	**250**	**290**	**190**	**210**	**230**	**270**	**230**	**2400**	26 U	**140 J**	**98 J**	**6.5 J+**	**950**	**49 J**
PCB-016	--	**15 J**	**9 J**	**18 J**	**4.6 J**	**11 J**	**24 J**	**29**	**33**	**1700**	26 U	**170**	**9.8 J+**	**1 J**	**640**	**34 J**
PCB-017	--	**28 J**	**15 J**	**36**	**7.5 J**	**16 J**	**34**	**46**	**46**	**2400**	26 U	**230**	**15 J**	**1.5 J**	**910**	**52 J**
PCB-018/030	--	72 U	57 U	**59 J+**	52 U	54 U	**62 J+**	**88 J+**	**79 J+**	**4000**	53 U	**370 J+**	290 U	51 U	**1600**	320 U
PCB-019	--	**3.9 J**	**3.3 J**	**4.1 J+**	**1.1 J+**	**3 J**	**7.4 J**	**8.5 J**	**6 J**	**370**	26 U	**25 J**	150 U	26 U	**130 J**	**7.8 J**
PCB-020/028	--	**490**	**360**	**570**	**190**	**310**	**430 J**	**770 J**	**420**	**21000**	79 U	**1600**	440 U	77 U	**8900**	480 U
PCB-021/033	--	**100 J+**	**65 J+**	**100 J+**	52 U	**67 J+**	**95 J+**	**150**	**99 J+**	**6600**	53 U	**720**	290 U	51 U	**3000**	320 U
PCB-022	--	**110**	**93**	**120**	**40**	**66**	**89 J**	**160 J**	**90**	**4800**	**0.98 J**	**470**	**46 J**	**3.6 J**	**2000**	**69 J+**
PCB-023	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-024	--	**1.5 J**	**0.82 J**	**1.2 J**	**0.48 J+**	**0.87 J**	**1.5 J**	**2 J**	**2.5 J**	**84 J**	26 U	160 U	150 U	26 U	**33 J**	160 U
PCB-025	--	**21 J**	**13 J**	**23 J**	**7.8 J**	**14 J**	**17 J**	**29**	**17 J**	**1100**	26 U	**98 J**	**9.9 J**	26 U	**470**	**17 J**
PCB-026/029	--	**49 J**	**32 J**	**57**	**17 J**	**31 J**	**44 J**	**75**	**48 J**	**2400**	53 U	**220 J**	**23 J**	**1.4 J+**	**1000**	**38 J**
PCB-027	--	**5.5 J**	**3.2 J**	**6.8 J**	**1.9 J**	**3.7 J**	**6.8 J**	**9.1 J**	**10 J**	**450**	26 U	**32 J**	**4 J**	26 U	**160**	**7.8 J**
PCB-031	--	**400**	**370**	**480**	**140**	**230**	**330 J**	**630 J**	**330**	**16000**	26 U	**1300**	**170 J+**	26 U	**6600**	**260 J+**
PCB-032	--	**24 J**	**23 J**	**32**	**6 J**	**14 J**	**31**	**42**	**38**	**1700**	26 U	**160**	**15 J**	**1.2 J**	**670**	**28 J**
PCB-034	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	**150 J**	26 U	**14 J**	150 U	26 U	160 U	160 U
PCB-035	--	**11 J**	**9.3 J**	**11 J**	**8.1 J**	**8 J**	**11 J**	27 U	**9.3 J**	**300 J**	26 U	160 U	150 U	26 U	160 U	160 U
PCB-036	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-037	--	**320**	**340**	**420**	**270**	**310**	**300**	**430**	**360**	**5900**	**2.7 J**	**420**	**120 J**	**9.8 J**	**2100**	**98 J**
PCB-038	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-039	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-040/071	--	**81**	**45 J**	**100**	**25 J**	**49 J**	**82**	**99**	**75**	**5100**	**1.2 J**	**390**	**39 J**	**3 J**	**2100**	**110 J**
PCB-041	--	**16 J**	**5.7 J**	**25 J**	**3.8 J**	**8.3 J**	**14 J**	**27**	**10 J**	**850**	26 U	**65 J+**	**6.2 J**	26 U	**490**	**15 J**
PCB-042	--	**54**	**25 J**	**70**	**16 J**	**32**	**58**	**66**	**53**	**3500**	**0.66 J+**	**250**	**26 J**	**1.8 J**	**1500**	**73 J**
PCB-043	--	**7.2 J**	**4.4 J**	**9.9 J**	**2.5 J**	**3.7 J**	**8.5 J**	**11 J**	**7.9 J**	**550**	26 U	**15 J**	150 U	26 U	**290**	**11 J**
PCB-	--	**190 J+**	**89 J+**	**230**	78 U	**100 J+**	**200 J+**	**220**	**200**	**12000**	79 U	**780 J+**	440 U	77 U	**5000**	480 U
PCB-045	--	**20 J**	**10 J**	**32**	**4.7 J**	**12 J**	**30**	**29**	**39**	**1200**	**0.33 J+**	**89 J**	**9.8 J**	**1.1 J**	**570**	**27 J**
PCB-046	--	**5.7 J**	29 U	**8.5 J**	26 U	**4.3 J**	**9.1 J**	**9.5 J**	25 U	**480**	26 U	**30 J**	150 U	26 U	**190**	**10 J**
PCB-048	--	**150**	**110 J+**	**170**	52 U	**77 J+**	**150**	**190**	**140**	**7700**	53 U	**500 J+**	290 U	51 U	**3200**	320 U
PCB-046/069	--	**38**	**18 J**	**55**	**11 J**	**23 J**	**38**	**52**	**30**	**2100**	**0.43 J+**	**210**	**17 J**	**1.3 J**	**1100**	**53 J**

Table 3
Sediment Analytical Results Summary - PCBs (all results)

Upriver Dam PCB Site
Spokane River, Spokane, Washington

	Sample ID	ST-01-SURFACE GRAB	ST-02-SURFACE GRAB	ST-03-SURFACE GRAB	ST-04-SURFACE GRAB	ST-05-SURFACE GRAB	ST-06-SURFACE GRAB	DUPLICATE-1 (Duplicate of ST-06-SURFACE GRAB)	ST-08-SURFACE GRAB	ST-10-SURFACE GRAB	ST-11-SAND LAYER	ST-12-COAL LAYER	ST-13-COAL LAYER	ST-13-SAND LAYER	ST-14-COAL LAYER	ST-15-COAL LAYER
Chemical	**Site CUL[1]**															
PCB Congeners (pg/g) (continued)																
PCB-050/053	--	**23 J**	**13 J**	**36 J**	**6 J**	**13 J**	**28 J**	**30 J**	**33 J**	**1400**	**0.53 J+**	**83 J**	**11 J**	**0.91 J**	**530**	**27 J**
PCB-051	--	**5.7 J**	29 U	**7.6 J**	**1.3 J**	**3.1 J**	**6.7 J**	**9.6 J**	**11 J**	**410**	26 U	**24 J**	150 U	26 U	**140 J**	**9.6 J**
PCB-052	--	**200**	**160**	**250**	**57**	**110**	**210**	**260**	**240**	**11000**	26 U	**720**	150 U	26 U	**4700**	**240 J+**
PCB-054	--	**0.79 J+**	**0.27 J**	**0.76 J**	26 U	27 U	**0.55 J+**	**0.59 J+**	**0.71 J**	**18 J**	26 U	160 U	150 U	26 U	**4.8 J**	160 U
PCB-055	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-056	--	**230**	**140**	**230**	**84**	**120**	**200**	**280**	**160**	**8600**	**2 J**	**750**	**110 J**	**6.1 J**	**4500**	**190**
PCB-057	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-058	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-059/062/075	--	**29 J**	**16 J**	**35 J**	**9.3 J**	**16 J**	**28 J**	**35 J**	**26 J**	**1400**	79 U	**80 J**	**9.4 J**	**0.78 J**	**450 J**	**18 J**
PCB-060	--	**140**	**110**	**130**	**56**	**78**	**110**	**180**	**94**	**3300**	**0.91 J**	**390**	**54 J**	**3 J**	**1600**	**67 J**
PCB-061/070/074/076	--	**670**	**290**	**980**	**330**	**440**	**260 J**	**970 J**	**470**	**29000**	110 U	**2100**	580 U	100 U	**11000**	640 U
PCB-063	--	**16 J**	29 U	**24 J**	**6.7 J**	**9.3 J**	**7.2 J**	**26 J**	**9.3 J**	**820**	26 U	**78 J**	**8.9 J+**	**0.6 J**	**380**	**16 J**
PCB-064	--	**170**	**170**	**200**	**55**	**89**	**120**	**180**	**120**	**6500**	26 U	**470**	150 U	26 U	**2600**	160 U
PCB-066	--	**690**	**330**	**700**	**290**	**400**	**320 J**	**770 J**	**430**	**20000**	26 U	**1400**	**330**	26 U	**9200**	**400**
PCB-067	--	36 U	29 U	**9 J**	**2.3 J**	**3.3 J**	27 U	**8.7 J**	**3.7 J**	**480**	26 U	**36 J**	**2.9 J**	26 U	**200**	**6.3 J**
PCB-068	--	36 U	29 U	28 U	26 U	**1.3 J+**	27 U	27 U	25 U	**120 J**	26 U	160 U	150 U	26 U	160 U	160 U
PCB-072	--	36 U	**2.3 J**	**4.2 J**	**1.2 J**	**2.1 J**	27 U	27 U	**3.1 J**	**220 J**	26 U	**11 J**	150 U	26 U	**83 J**	160 U
PCB-073	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-077	--	**120**	**120**	**150**	**96**	**110**	**150**	**170**	**150**	**2600**	**0.84 J**	**150**	**51**	**3.7**	**960**	**44**
PCB-078	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-079	--	36 U	29 U	28 U	26 U	27 U	**3.4 J**	27 U	**2.6 J**	**110 J**	26 U	160 U	150 U	26 U	160 U	160 U
PCB-080	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-081	--	4.8 U	2.9 U	**5**	2.6 U	**3.6 J+**	2.7 UJ	**6.9 J**	**4**	110 U	2.6 U	16 U	15 U	2.6 U	100 U	16 U
PCB-082	--	**24 J**	**11 J**	**20 J**	**9.1 J**	**14 J**	**38**	**40**	**30**	**1300**	26 U	**52 J**	150 U	26 U	**480**	**26 J**
PCB-083	--	36 U	29 U	28 U	26 U	27 U	**21 J**	27 U	**13 J**	**520**	26 U	**26 J**	150 U	26 U	160 U	**14 J**
PCB-084	--	**38**	**8.2 J**	**32**	**14 J**	**24 J**	**20 J**	**47**	**38**	**1700**	26 U	**67 J**	**13 J**	**1.2 J**	**520**	**31 J**
PCB-085/116/117	--	**65 J**	**46 J**	**53 J**	**23 J**	**33 J**	**87**	**86**	**57 J+**	**1900**	79 U	**110 J**	**29 J**	**1.6 J+**	**760**	**39 J**
PCB-086/087/097/108/119/125	--	**120 J**	**60 J**	**93 J**	**40 J**	**60 J**	**150 J**	**140 J**	**110 J**	**4500**	160 U	**220 J**	**40 J**	**3.5 J**	**1500**	**94 J**
PCB-088/091	--	**28 J**	**9.7 J**	**29 J**	**11 J**	**16 J**	**15 J**	**42 J**	**28 J**	**1400**	53 U	**41 J**	**7.1 J+**	**0.81 J+**	**320**	**18 J**
PCB-089	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	**4.4 J**	**210 J**	26 U	**5.3 J+**	150 U	26 U	160 U	**3.8 J**
PCB-	--	**140 J+**	86 U	**100 J+**	78 U	81 U	**160 J+**	**150 J+**	**130 J+**	**4900**	79 U	470 U	440 U	77 U	**1500**	480 U
PCB-092	--	**26 J**	**13 J**	**18 J**	**7.3 J**	**13 J**	**31**	**29**	**25**	**990**	26 U	**39 J**	**8.1 J**	**0.73 J**	**310**	**19 J**
PCB-093/100	--	72 U	57 U	55 U	52 U	54 U	54 U	55 U	50 U	**110 J**	53 U	310 U	290 U	51 U	310 U	320 U
PCB-107/124	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-094	--	**67 J+**	**29 J+**	**57**	26 U	**33 J+**	**47 J+**	**73**	**66**	**3400**	26 U	160 U	150 U	26 U	**810**	160 U
PCB-095	--	**1.6 J**	**1.1 J**	**2 J**	**0.67 J**	**1.3 J**	**2.9 J**	**2.4 J**	**2.6 J**	**100 J**	26 U	**1.9 J+**	150 U	26 U	**20 J**	**1.1 J**
PCB-096	--	72 U	57 U	55 U	52 U	54 U	54 U	55 U	**6.3 J**	**390 J**	53 U	**14 J**	290 U	51 U	310 U	**7.3 J**
PCB-098/102	--	**100**	**55**	**78**	**33**	**51**	**110**	**110**	**93**	**3300**	26 U	**140 J**	**37 J**	**3.3 J**	**1100**	**69 J**
PCB-099	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-103	--	**0.64 J+**	29 U	28 U	26 U	27 U	27 U	27 U	25 U	**3.9 J+**	26 U	160 U	150 U	26 U	160 U	**1.2 J**
PCB-104	--	**130**	**92**	**130**	**63**	**74**	**140**	**190**	**110**	**3000**	**1.5 J**	**170**	**37**	**3.6 J**	**980**	**69**
PCB-105	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-106	--	**10 J**	**5.5 J+**	**9.5 J**	**4 J**	**4.5 J+**	**15 J**	**16 J**	**9.3 J**	**230 J+**	53 U	**11 J+**	**2 J+**	51 U	**79 J**	**5.7 J**
PCB-110/115	--	**19 J**	**11 J**	**17 J**	**7.2 J**	**10 J**	**22 J**	**27**	**14 J**	**600**	26 U	**22 J**	**5.5 J**	**0.46 J**	**180**	**13 J**
PCB-109	--	**190**	**110 J+**	**150**	**72 J+**	**100 J+**	**240**	**250**	**200**	**6900**	53 U	310 U	290 U	51 U	**2000**	320 U
PCB-111	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-112	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-114	--	**8.9**	**5.9**	**9**	**4.1**	**5.7**	**9.8**	**15**	**7.4**	**220**	2.6 U	**12 J**	**1.5 J+**	2.6 U	**72**	**4.8 J**

Table 3
Sediment Analytical Results Summary - PCBs (all results)

Upriver Dam PCB Site
Spokane River, Spokane, Washington

	Sample ID	ST-01-SURFACE GRAB	ST-02-SURFACE GRAB	ST-03-SURFACE GRAB	ST-04-SURFACE GRAB	ST-05-SURFACE GRAB	ST-06-SURFACE GRAB	DUPLICATE-1 (Duplicate of ST-06-SURFACE GRAB)	ST-08-SURFACE GRAB	ST-10-SURFACE GRAB	ST-11-SAND LAYER	ST-12-COAL LAYER	ST-13-COAL LAYER	ST-13-SAND LAYER	ST-14-COAL LAYER	ST-15-COAL LAYER
Chemical	**Site CUL[1]**															
PCB Congeners (pg/g) (continued)																
PCB-118	--	**220**	**140**	**210**	**97**	**130**	**240**	**280**	**190**	**6300**	5.3 U	**290**	**79**	**6.9 J+**	**2100**	**150**
PCB-120	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-121	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-122	--	36 U	29 U	**5.7 J**	**2.5 J**	27 U	**7.1 J**	**9.3 J**	**5.7 J**	**170 J**	26 U	**5.8 J+**	150 U	26 U	**51 J+**	**3.4 J**
PCB-123	--	**9.6**	**6.6**	**8.3**	**4.1**	**4.8**	**12**	**12**	**8**	**200**	2.6 U	**9.3 J+**	**2.1 J+**	**0.33 J**	**67**	**4.9 J**
PCB-126	--	3.6 U	2.9 U	2.8 U	2.6 U	2.7 U	2.7 U	3 U	**2.7**	79 U	2.6 U	16 U	15 U	2.6 U	31 U	16 U
PCB-127	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-128/166	--	**18 J**	**9.7 J**	**12 J**	**6 J**	**8 J**	**27 J**	**21 J**	**18 J**	**410 J**	53 U	**14 J**	**7.4 J**	**0.64 J+**	**110 J**	**12 J**
PCB-129/138/163	--	110 U	86 U	83 U	78 U	81 U	**120 J+**	**91 J+**	**91 J+**	**1900 J+**	79 U	470 U	440 U	77 U	**540 J+**	480 U
PCB-130	--	**7.4 J**	**3.7 J**	**4.3 J**	**2.1 J**	**2.8 J**	**9.8 J**	**7.3 J**	**6.2 J**	**190 J**	26 U	**4.6 J+**	150 U	26 U	**53 J**	**5.2 J**
PCB-131	--	**0.95 J+**	29 U	28 U	26 U	27 U	27 U	27 U	25 U	**28 J**	26 U	160 U	150 U	26 U	160 U	160 U
PCB-132	--	**25 J**	**11 J**	**14 J**	**6.7 J**	**10 J**	**35**	**23 J**	**24 J**	**660**	26 U	**27 J**	**13 J**	**1 J**	**190**	**27 J**
PCB-133	--	**1.1 J+**	**0.59 J+**	**0.67 J**	26 U	27 U	27 U	27 U	**1.2 J**	**31 J**	26 U	160 U	150 U	26 U	160 U	**1.4 J**
PCB-134/143	--	**3.3 J**	57 U	55 U	**0.82 J**	**1.4 J**	**5.1 J**	**3 J+**	**2.9 J**	**100 J**	53 U	310 U	290 U	51 U	**30 J**	**2.4 J+**
PCB-135/151	--	72 U	57 U	55 U	52 U	54 U	54 U	55 U	50 U	730 U	53 U	310 U	290 U	51 U	310 U	320 U
PCB-136	--	**6.4 J**	**2.9 J**	**3.1 J**	**1.7 J**	**2.7 J**	**7.3 J**	**4.8 J**	**6.2 J**	**160 J**	26 U	**6.9 J**	**3.6 J**	26 U	**43 J**	**6 J**
PCB-137	--	**5.1 J**	**3.2 J**	**4.2 J**	**1.7 J**	**2.7 J**	**7.9 J**	**6.7 J**	**6.6 J**	**150 J**	26 U	**3.9 J+**	150 U	26 U	**38 J**	**3.6 J+**
PCB-139/140	--	**1.8 J**	57 U	**1.2 J**	52 U	**0.44 J+**	**2.9 J**	**2.1 J**	**1.5 J**	**45 J**	53 U	310 U	290 U	51 U	**12 J**	320 U
PCB-141	--	**15 J**	**6.4 J**	**9.3 J**	**3.4 J**	**5 J**	**18 J**	**12 J**	**13 J**	**300 J**	26 U	**15 J**	**6 J+**	26 U	**87 J**	**13 J**
PCB-142	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-144	--	36 U	**1.2 J**	**1.3 J**	**0.57 J**	**0.96 J**	**3.7 J**	**2.4 J**	**2.6 J**	**65 J**	26 U	160 U	150 U	26 U	160 U	160 U
PCB-145	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-146	--	**12 J**	**6 J**	**6.3 J**	**2.9 J**	**4.2 J**	**13 J**	**9.3 J**	**8.4 J+**	**250 J**	26 U	**9.6 J**	**4.4 J**	**0.42 J+**	**66 J**	**9.1 J**
PCB-147/149	--	72 U	57 U	55 U	52 U	54 U	**59 J+**	55 U	50 U	**1100 J+**	53 U	310 U	290 U	51 U	**310 J+**	320 U
PCB-148	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-150	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-152	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-153/168	--	72 U	57 U	55 U	52 U	54 U	**73 J+**	55 U	**60 J+**	**1300 J+**	53 U	310 U	290 U	51 U	**350 J+**	320 U
PCB-154	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	**22 J**	26 U	160 U	150 U	26 U	160 U	**13 J**
PCB-155	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	**1 J**
PCB-156/157	--	**21**	**11**	**18**	**8.3**	**11**	**26**	**30**	**16**	**460**	5.3 U	**16 J**	**7.8 J**	5.1 U	**130**	**11 J**
PCB-158	--	**9.9 J**	**4.7 J**	**6.3 J**	**2.7 J**	**4.1 J**	**14 J**	**9.4 J**	**8.7 J**	**210 J**	26 U	**8.1 J**	**4 J**	26 U	**60 J**	**6.8 J**
PCB-159	--	**0.68 J**	**0.23 J**	**0.37 J+**	**0.18 J+**	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	**3.7 J**	160 U
PCB-160	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-161	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-162	--	**0.76 J+**	29 U	28 U	26 U	27 U	27 U	27 U	25 U	**13 J**	26 U	160 U	150 U	26 U	**3 J+**	160 U
PCB-164	--	**7.6 J**	**3.6 J**	**4 J**	**2 J**	**2.4 J+**	**9.7 J**	**6.2 J**	**5.7 J**	**150 J**	26 U	**6.1 J**	150 U	26 U	**44 J**	**5.1 J**
PCB-165	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-167	--	**7.2**	**3.7**	**5.4**	**2.3 J**	**3**	**8.4**	**8**	**4.3**	**160**	2.6 U	**5 J**	15 U	2.6 U	**40**	**3.8 J**
PCB-169	--	3.6 U	2.9 U	2.8 U	2.6 U	2.7 U	2.7 U	2.7 U	2.5 U	37 U	2.6 U	16 U	15 U	2.6 U	16 U	16 U
PCB-170	--	**25 J**	**13 J**	**20 J**	**8.1 J**	**10 J**	**28**	**33**	**16 J**	**430**	26 U	**17 J**	**12 J**	**0.61 J+**	**110 J**	**15 J**
PCB-171/173	--	**6.2 J+**	**3 J**	**4.5 J**	**1.7 J**	**2.6 J**	**7.9 J**	**7.4 J**	**4.1 J**	**120 J**	53 U	**3.5 J+**	290 U	51 U	**31 J**	**4.5 J**
PCB-172	--	**4.8 J**	**2.5 J**	**3.4 J**	**1.1 J+**	**1.5 J**	**5.8 J**	**4.9 J**	**3.2 J**	**78 J**	26 U	**3.2 J**	**1.9 J**	26 U	**20 J**	**2.4 J+**
PCB-174	--	36 U	29 U	28 U	26 U	27 U	**27 J+**	27 U	25 U	**380 J+**	26 U	160 U	150 U	26 U	160 U	160 U
PCB-175	--	**0.7 J+**	**0.36 J+**	**0.31 J+**	26 U	27 U	**1 J**	27 U	25 U	**14 J**	26 U	160 U	150 U	26 U	**3.4 J**	160 U
PCB-176	--	**2.2 J**	**1 J**	**1.5 J**	**0.56 J**	**0.54 J+**	**3 J**	**1.9 J**	**2.3 J**	**44 J**	26 U	**1.7 J**	150 U	26 U	**11 J**	**1.1 J+**
PCB-177	--	**15 J**	**7 J**	**9 J**	**3.8 J**	**4.9 J**	**16 J**	**15 J**	**9.8 J**	**240 J**	26 U	**9.3 J**	**6.5 J**	26 U	**54 J**	**9.2 J**
PCB-178	--	**4.9 J**	**2.3 J**	**2.5 J**	**1.1 J+**	**1.3 J+**	**6 J**	**4.1 J**	**3.8 J**	**83 J**	26 U	**3.5 J**	**2.1 J+**	26 U	**20 J**	**3.4 J+**
PCB-179	--	**8.5 J**	**4.5 J**	**4.8 J**	**2.1 J**	**2.6 J**	**10 J**	**7 J**	**7.1 J**	**150 J**	26 U	**6.9 J**	**4.3 J+**	26 U	**40 J**	**6 J**
PCB-180/193	--	72 U	57 U	55 U	52 U	54 U	**54 J+**	**61 J+**	50 U	**820 J+**	53 U	310 U	290 U	51 U	310 U	320 U
PCB-181	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-182	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U

Table 3
Sediment Analytical Results Summary - PCBs (all results)

Upriver Dam PCB Site
Spokane River, Spokane, Washington

	Sample ID	ST-01-SURFACE GRAB	ST-02-SURFACE GRAB	ST-03-SURFACE GRAB	ST-04-SURFACE GRAB	ST-05-SURFACE GRAB	ST-06-SURFACE GRAB	DUPLICATE-1 (Duplicate of ST-06-SURFACE GRAB)	ST-08-SURFACE GRAB	ST-10-SURFACE GRAB	ST-11-SAND LAYER	ST-12-COAL LAYER	ST-13-COAL LAYER	ST-13-SAND LAYER	ST-14-COAL LAYER	ST-15-COAL LAYER
Chemical	**Site CUL[1]**															
PCB Congeners (pg/g) (continued)																
PCB-183	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-184	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-185	--	**3.7 J+**	**1.6 J**	**2.8 J**	26 U	27 U	**3.3 J**	**5 J**	**2.3 J**	**65 J**	26 U	160 U	150 U	26 U	**11 J**	**1.7 J**
PCB-186	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-187	--	**27 J**	**13 J**	**16 J**	**7 J**	**8.1 J**	**30**	**23 J**	**23 J**	**450**	26 U	**19 J**	**16 J**	**1.2 J+**	**110 J**	**21 J**
PCB-188	--	**0.53 J**	29 U	**0.13 J**	26 U	27 U	27 U	27 U	25 U	**4.9 J**	26 U	160 U	150 U	26 U	160 U	160 U
PCB-189	--	**1.6 J**	**0.78 J**	**1.4 J**	**0.5 J+**	**0.58 J**	**1.6 J**	**1.7 J**	2.5 U	**26 J**	2.6 U	16 U	15 U	2.6 U	**5.6 J+**	16 U
PCB-190	--	**5.2 J**	**2.8 J**	**4.2 J**	**1.7 J**	**2.1 J**	**6 J**	**6.2 J**	**3.8 J**	**90 J**	26 U	**3.5 J**	**2.8 J**	26 U	**20 J**	**2.8 J**
PCB-191	--	**0.61 J+**	29 U	**0.65 J**	26 U	**0.34 J+**	**1.1 J**	27 U	25 U	**15 J**	26 U	160 U	150 U	26 U	**3.3 J+**	160 U
PCB-192	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-194	--	**16 J**	**8.1 J**	**14 J**	**4.4 J**	**5.1 J**	**13 J**	**17 J**	**7.9 J**	**230 J**	26 U	**7.7 J+**	**10 J**	**0.71 J+**	**79 J**	**13 J**
PCB-195	--	**6 J**	**2.4 J+**	**4.9 J**	**1.8 J**	**1.9 J**	**3.4 J**	**4.1 J**	**2.6 J**	**85 J**	26 U	**3 J+**	**2.7 J+**	26 U	**25 J**	**3.1 J**
PCB-196	--	**7.1 J**	**4 J**	**6.7 J**	**2.4 J**	**2.1 J+**	**3.9 J**	**4.2 J**	**2.4 J**	**120 J**	26 U	**6.4 J**	**5.2 J**	**0.32 J**	**32 J**	**5.5 J**
PCB-197	--	**0.23 J**	**0.27 J+**	**0.37 J+**	26 U	27 U	**0.37 J**	27 U	**0.29 J**	**6.8 J**	26 U	160 U	150 U	26 U	**1.8 J+**	160 U
PCB-198/199	--	**19 J**	**11 J**	**14 J**	**5.6 J**	**6.1 J**	**16 J**	**14 J**	**9.7 J**	**270 J**	**0.21 J+**	**9 J+**	**8.2 J**	**0.78 J**	**74 J**	**10 J**
PCB-200	--	**1.8 J**	**0.91 J+**	**1.5 J+**	**0.58 J**	**0.59 J+**	**2.1 J**	**1.5 J**	**1.1 J**	**32 J**	26 U	**2.1 J**	150 U	26 U	**9.3 J**	**1 J**
PCB-201	--	**1.2 J**	**1.1 J**	**1.5 J**	**0.56 J**	**0.59 J+**	**1.8 J**	**1.6 J**	**0.79 J**	**34 J**	26 U	**1.4 J+**	**1 J+**	26 U	**9.5 J+**	**1.9 J**
PCB-202	--	**4.4 J**	**2.2 J**	**2.4 J**	**1 J**	**1.1 J**	**3.3 J**	**3.1 J**	**2 J**	**56 J**	26 U	**1.9 J+**	**2.2 J+**	**0.34 J+**	**16 J**	**3 J**
PCB-203	--	**10 J**	**6.2 J**	**8.5 J**	**3 J**	**4.1 J**	**4.6 J**	**4.8 J**	**4.1 J**	**160 J**	26 U	**7.9 J**	**5.9 J**	26 U	**45 J**	**6.9 J**
PCB-204	--	36 U	29 U	28 U	26 U	27 U	27 U	27 U	25 U	370 U	26 U	160 U	150 U	26 U	160 U	160 U
PCB-205	--	**0.88 J**	**0.69 J+**	**0.91 J+**	**0.28 J+**	**0.36 J**	**1.1 J**	**1.4 J**	**0.58 J**	**17 J**	26 U	160 U	150 U	26 U	**4.9 J**	160 U
PCB-206	--	**8.7 J**	**5.6 J+**	**6 J+**	**2.4 J+**	**3.3 J+**	**6.3 J**	**7.8 J**	**4.4 J**	**110 J**	26 U	**6.2 J**	**4.7 J+**	**0.98 J**	**30 J**	**7.5 J+**
PCB-207	--	**0.72 J+**	**0.7 J**	**0.98 J**	26 U	**0.51 J**	**0.72 J**	**0.68 J**	**0.35 J+**	**8.8 J**	26 U	160 U	150 U	26 U	**3.5 J**	160 U
PCB-208	--	**2.7 J**	**1.7 J**	**1.7 J**	**0.93 J**	**1.2 J**	**2.1 J**	**2.1 J**	**1.4 J**	**34 J**	26 U	**1.8 J+**	**0.84 J+**	**0.34 J+**	**8.8 J**	**1.2 J**
PCB-209	--	**3.9 J+**	**2.7 J+**	**2.4 J**	**1.3 J**	**1.5 J+**	**4.1 J**	**2.5 J+**	**3 J**	**52 J**	26 U	160 U	150 U	**1.2 J**	**12 J**	**2.7 J+**
Total PCBs Congeners	62,000	**6,236**	**4,082**	**7,027**	**2,467**	**3,736**	**5,874**	**8,435**	**5,728**	**248,944**	**12**	**16,392**	**1,609**	**78**	**97,268**	**2,835**

Notes:

1. Sediment cleanup level of 62 µg/kg as determined by Ecology in the Cleanup Action Plan (Ecology, 2005)
2. Detected concentrations greater than or equal to the method detection limit, or laboratory reporting limit if the data was qualified through the validation process, are shown in **bold**.
3. Detected concentrations or total concentrations of PCBs greater than an applicable cleanup level are shaded and bolded.

Abbreviations and Symbols

ug/kg = micrograms per kilogram
pg/g = picogram per gram
CUL = cleanup level
" - -" denotes not measured, not available, or not applicable.
"U" indicates the compound was not detected at a concentration greater than or equal to the indicated laboratory reporting limit.
"UJ" indicates the analyte was not detected above the reported sample quantitation limit and is considered estimated.
"J" indicates estimated value
"J+" indicates estimated value with high bias
PCBs = polychlorinated biphenyls
Total PCBs = Total PCB concentration based on the sum of individual aroclor concentrations detected.
Total PCBs Congeners = Total PCB concentration based on the sum of individual congener concentrations detected.

Analytical Methods

Samples analyzed for Polychlorinated Biphenyls using EPA Method 8082 and Method 1668C.

APPENDIX A – SEDIMENT CORE LOG FIELD FORMS

Sediment Core Log

DH Environmental Inc

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA
Job No.:
Station ID: ST-01
No. of Sections:
Water Depth/~~Elevation of Core~~: 21'
Cored Length (feet):
Core Recovery (~~feet~~): cm 5

Date Logged: 8/18/2020
Core Pushed By: Global Diving
Core Logged By: N. Muxlay
Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other Push core
Diameter of Core (inches): 3
Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Average % Compaction =
Internal Composite Received on:

1-5cm
2-5cm

Theoretical / Depth in / Actual Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					Location adjacent to large piece of woody debris 0-0.5 cm Brown SILT w/ small wood fragments and pine needles 0.5-5 cm Gray, fine-med SAND w/ trace gravel Sample: ST-01-Surface Grab @ 1100 composite of both cores

Sediment Core Log

DH Environmental

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA
Job No.:
Station ID: ST-02
No. of Sections:
Water Depth/Elevation ~~of Core~~: 22'
Cored Length (feet):
Core Recovery (~~feet~~): 1-5" 2-6"

Date Logged: 8/18/2020
Core Pushed By: Global Diving
Core Logged By: N. McNay
Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other Push Core
Diameter of Core (inches): 3"
Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Average % Compaction =
Internal Composite Received on:

Theoretical Depth in Actual Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					~~1-2 mm of~~ brown silt/twigs/pine needles 0-0.2 cm ↗ 0.2 cm - 13 cm & 16 cm Gray, fine-med SAND Sample: ST-02-Surface Grab @ 1125 top 10 cm from each core

Sediment Core Log

DH Environmental

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA
Job No.:
Station ID: ST-03
No. of Sections:
Water Depth/~~Elevation of Core~~: 24'
Cored Length (feet): 1) 13 cm 2) 14 cm
Core Recovery (feet): 1) 9" 2) 10"

Date Logged: 8/18/2020
Core Pushed By: Global Diving
Core Logged By: N. Mosley
Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other push core
Diameter of Core (inches): 3
Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Average % Compaction =
Internal Composite Received on:

Theoretical Depth in Actual Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					0 - ~0.2 cm Small woody debris, twigs, & pine needles w/ silt
					0.2 - bottom Gray, fine-med SAND w/ 1-2" rounded gravel @ bottom of each (armor layer)
					Sample: ST-03 - Surface Grab @ 1155 top 10 cm of each core

Sediment Core Log

DH Environmental Inc

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA
Job No.:
Station ID: ST-04
No. of Sections:
Water Depth/Elevation of Core: 20'
Cored Length (feet): 12"
Core Recovery (feet): 1) 16 cm 2) 15 cm

Date Logged: 8/18/2020
Core Pushed By: Global Diving
Core Logged By: N. Maxley
Type of Core: ☐ Vibracore ☐ Piston Core ☐ Other
Diameter of Core (inches):
Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Average % Compaction =
Internal Composite Received on:

Theoretical Depth in Actual Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					Drive core 12", stopped before hitting gravel layer. Sediment ~ 18" thick per diver Trace silt layer on top w/ trace organics, pine needles, etc. Gray, fine-med SAND to depth Sample: ST-04-Surface Grab @ 1230 top 10 cm of each core

Sediment Core Log

DH Environmental Inc

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA
Job No.:
Station ID: ST-11
No. of Sections:
Water Depth/Elevation of Core: 23'
Cored Length ~~(feet)~~:
Core Recovery ~~(feet)~~: 14 cm (both)

Date Logged: 8/18/2020
Core Pushed By: Global Diving
Core Logged By: N. Moxley
Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other Push Core
Diameter of Core (inches): 3"
Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Average % Compaction =
Internal Composite Received on:

1) 12"
2) 12" 1 lost
3) 12"

Core Sections: Theoretical / Depth in / Actual	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					4" sand above gravel layer 4-6" gravel (estimated) lost 1 of the 2 cores, bottom cap slipped off Divers went back for a 3rd attempt 14 cm recovery, both cores all sand w/ 1-2 cm coal @ base (N/ cm org) Coal excluded, the 10 cm sand above coal retained Sample ST-11 - Sand layer @ 1400

Sediment Core Log

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA
Job No.:
Station ID: ST-05
No. of Sections:
Water Depth/Elevation of Core: 21
Cored Length (feet):
Core Recovery (feet): (1) 18 cm (2) 15 cm

Date Logged: 8/13/2020
Core Pushed By: Global Diving
Core Logged By: N. Manley
Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other Peal Core
Diameter of Core (inches): 3"
Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Average % Compaction =
Internal Composite Received on:

(2) 12" to gravel

Theoretical / Depth in / Actual Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					feels denser than previous grabs in core barrel thin brown (~1 mm) silt layer w/ minimal woody debris/pine needles, etc Gray, fine-med SAND w/ coarse sand and wood debris 0-10 cm Sample from both cores Sample: ST-05-Surface grab @ 1425

Sediment Core Log

DH Environmental

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA
Job No.:
Station ID: ST-12
No. of Sections:
Water Depth/Elevation of Core: 22'
Cored Length (feet): 1) 45 cm 2) 45 cm
Core Recovery (feet): 1) 18 cm 2) 20 cm

Date Logged: 8/18/2020
Core Pushed By: Global Diving
Core Logged By: N. Mosley
Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other pail core
Diameter of Core (inches): 3"
Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Average % Compaction =
Internal Composite Received on:

Depth in Core Sections (Theoretical / Actual)	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					Divers report ~ 2" sand above gravel armor. Gravel scraped aside & sediment very soft, pushed entire core length (45 cm) 1) 0-12 cm Gray, med SAND 12-18 cm Coal 2) 0-15 cm Gray, med SAND 15-20 cm Coal Sample: ST-12 - Coal Layer @ 1505 Coal from both cores

Sediment Core Log

DH Environmental

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA
Job No.:
Station ID: ST-10
No. of Sections:
Water Depth/Elevation of Core: ~20'
Cored Length (feet): ~5"
Core Recovery (feet): 1) 7 cm 2) 8 cm 3) 10cm

Date Logged: 8/19/2020
Core Pushed By: Global Diving
Core Logged By: N. Maxlay
Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other Post Core
Diameter of Core (inches): 3"
Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Average % Compaction =
Internal Composite Received on:

Theoretical / Depth in / Actual — Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					Diver reports very silt conditions w/ abundant organic matter and ~ 4-5" accumulation above gravel armor layer. 1) 8 cm = 100% organics, pine needles, twigs and a large pine cone 2 & 3) Mix of fine sand, silt, and organics w/ rounded gravel @ base (armor layer) Sample: ST-10-Surface Grab @ 0845 (0-8 cm)

Sediment Core Log

DH Environmental Inc

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA
Job No.:
Station ID: ST-15
No. of Sections:
Water Depth/~~Elevation of Core~~: 20'
Cored Length (~~feet~~): ~14"
Core Recovery (~~feet~~): 1) 16 cm 2) 14 cm

Date Logged: 8/19/2020
Core Pushed By: Global Diving
Core Logged By: N. Moxley
Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other Post core
Diameter of Core (inches): 3"
Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Average % Compaction =
Internal Composite Received on:

Theoretical / Depth in / Actual — Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					~~sediment~~ sediment above gravel armor ~2"
					1) 8 cm coal → 16 cm total (8 cm sand)
					2) 2 cm coal → 14 cm total (12 cm sand)
					→ 6 cm coal of 2 cm native ~~fine~~ sands of silt
					Sample = coal from both (exclude native sediment)
					Sand = clean, med. SANDS
					Native = fine SANDS of silt
					ST-15 - coal layer @ 0940

Sediment Core Log

DH Environmental Inc

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA
Job No.:
Station ID: ST-08
No. of Sections:
Water Depth/Elevation of Core: 18'
Cored Length (feet): 3-4"
Core Recovery (feet):

Date Logged: 8/11/2020
Core Pushed By: Global Diving
Core Logged By: N. Morley
Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other Post Core
Diameter of Core (inches): 3"
Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Average % Compaction =
Internal Composite Received on:

Theoretical / Depth in / Actual Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					abundant wood debris ~3" sand on top of armor 1 - 10 cm 2 - 4 cm > recovery 3 - 6 cm 2 cores had thin (<1 cm) silt layer on top of organics then med-coarse SAND 2 cores had visible pieces of gravel at base (armor) 1 had a small stick Sample: ST-08 - surface grab @ 1015

Sediment Core Log

DH Environmental Inc

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA

Job No.:

Station ID: ST-14

No. of Sections:

Water Depth/Elevation of Core: 22'

Cored Length (feet): 12"

Core Recovery (feet): 1) 14 cm 2) 15 cm

Date Logged: 8/19/2020

Core Pushed By: Global Diving

Core Logged By: N. Moxley

Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other Post Core

Diameter of Core (inches): 3"

Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed

Average % Compaction =

Internal Composite Received on:

Theoretical / Depth in / Actual — Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					Sample core inside tree & limbs ~2" surface sediment 1- 14 cm - 2 cm coal 2- 15 cm 6 cm coal Soil - Gray, med. SAND Sample: ST-14 - coal layer @ 1110

Sediment Core Log

Duplicate

DH Environmental Inc

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA
Job No.:
Station ID: ST-06
No. of Sections:
Water Depth/Elevation of Core: 16'
Cored Length (feet): ~4-5"
Core Recovery (feet):

Date Logged: 8/19/2020
Core Pushed By: Global Diving
Core Logged By: N. Manley
Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other Pistol Core
Diameter of Core (inches): 3"
Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Average % Compaction =
Internal Composite Received on:

Theoretical / Depth in / Actual — Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					Abundant woody debris and a pair of underwear on surface ~4-5" sediment above gravel 1 - 6 cm sand 2 - 7 cm 3 - 11 cm 4 - 10 cm Grey, med-course sands w/ several pieces of the gravel armor layer thin (1 mm) silt & wood fragments on two of the cores

Sample:
ST-06 - surface grab @ 1205

Duplicate:
Duplicate - 1 @ 0730

Sediment Core Log

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA	Date Logged: 8/11/2020
Job No.:	Core Pushed By: Global Diving
Station ID: ST-13	Core Logged By: N. McNay
	Type of Core: ☐ Vibracore ☐ Piston Core ☒ Other Post Core
No. of Sections:	Diameter of Core (inches): 3"
Water Depth/~~Elevation of Core~~: 21'	Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed
Cored Length (~~feet~~): 3 @ 12"	Average % Compaction =
Core Recovery (feet): 1) 9 cm 2) 11 cm 3) 12 cm	Internal Composite Received on:

Depth in (Theoretical / Actual) Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					Divers report ~ 2" sediment above gravel armor. Also something hard beneath coal layer, possibly a log, that made sample retrieval difficult
					1) 0-10 cm Gray, med SAND w/ very thin intermixed coal ~~layer~~ lenses
					10-12 cm Coal
					2) 0-7 cm Gray, med SAND w/ thin intermixed coal lenses
					7-9 cm Coal
					3) 0-11 cm Gray, med SAND (no coal lenses) * No coal
					Sample: ST-13-Coal Layer @ 1330 (cores 1 & 2)
					** ST-13-Sand Layer @ 1340 ~~top 10 cm~~ Extra sample, analyze if budget allows

DH Environmental Inc

~~Sediment Core Log~~ Rinsate Sample

Page 1 of 1

Job: Ecology - Upriver Dam PCB Sediment Sampling, Spokane, WA

Job No.:

Station ID:

No. of Sections:

Water Depth/Elevation of Core:

Cored Length (feet):

Core Recovery (feet):

Date Logged: 8/19/2020

Core Pushed By: Global Diving

Core Logged By:

Type of Core: ☐ Vibracore ☐ Piston Core ☐ Other

Diameter of Core (inches):

Core Quality: ☐ Good ☐ Fair ☐ Poor ☐ Disturbed

Average % Compaction =

Internal Composite Received on:

Theoretical / Depth in / Actual — Core Sections	Size % G	Size % S	Size % F	Summary Sketch	Classification and Remarks (Moisture content, density/consistency/ color, minor contituent, MAJOR constituent, amount, shape of minor constituent, sheen, odor)
					Rinsate Sample RB-20200819 @ 1355 3 bottles

APPENDIX B – PHOTO LOG

Appendix B - Photo Log
Upriver Dam PCB Site Sediment Sampling
Spokane River, Spokane, Washington
August 18-19, 2020

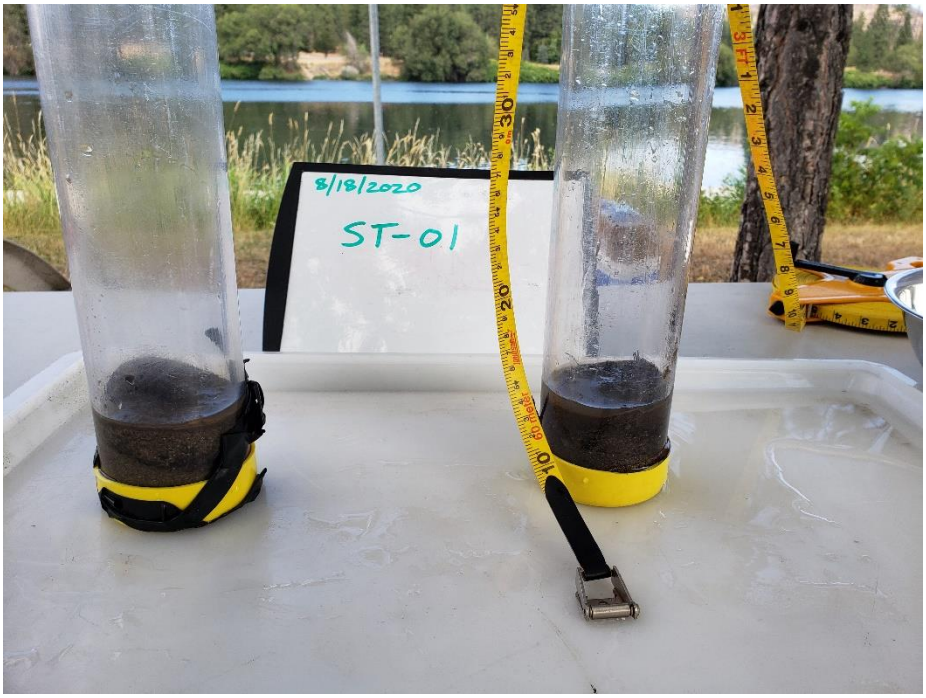


Photo 1: Sediment cores from Station ST-01.

Photo 2: Sample ST-01 Surface Grab prior to homogenization

Photo 3: Sediment cores from Station ST-02

Photo 4: Sediment cores from Station ST-02

Photo 5: Sediment cores from Station ST-02 after extrusion from the core barrel

Photo 6: Sediment cores from Station ST-03

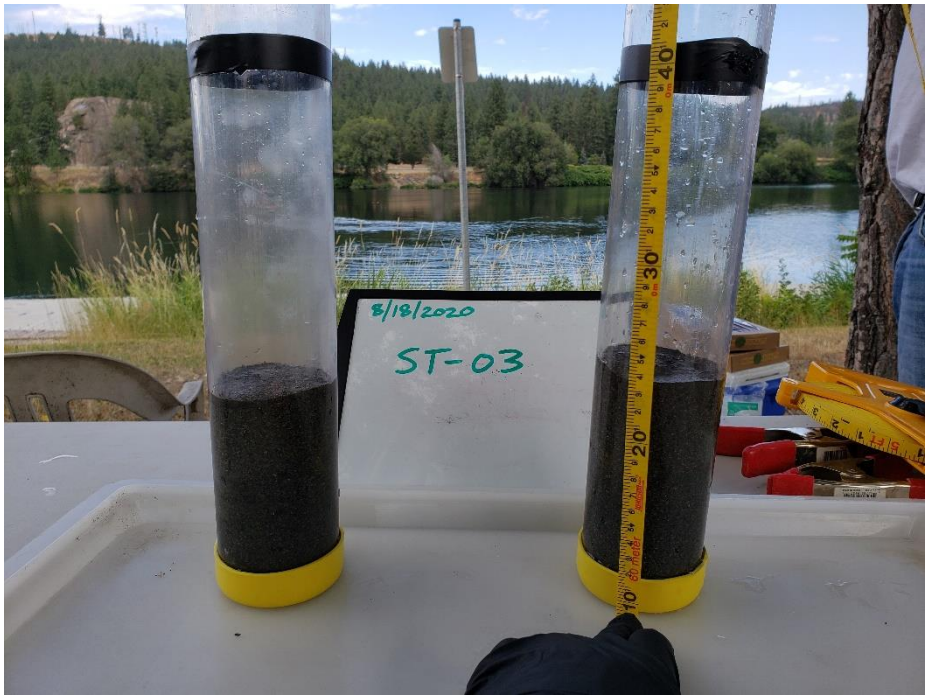


Photo 7: Sediment cores from Station ST-03

Photo 8: Sediment cores from Station ST-03 after extrusion from the core barrel

Photo 9: Sediment cores from Station ST-04 after extrusion from the core barrel

Photo 10: Sediment cores from Station ST-05

Photo 11: Sediment cores from Station ST-05

Photo 12: Sediment cores from Station ST-05 after extrusion from the core barrel

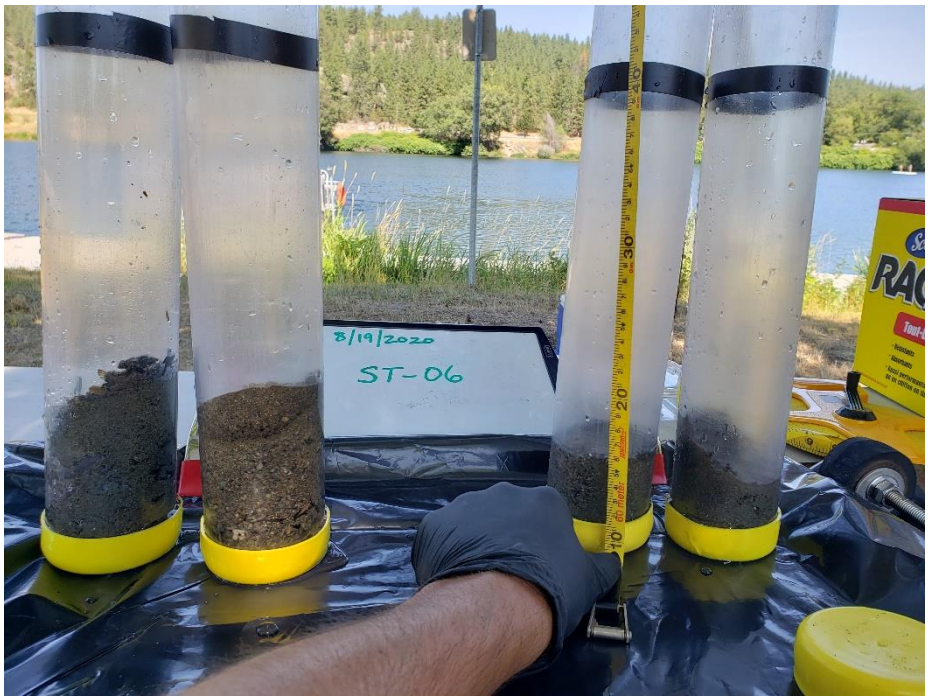


Photo 13: Sediment cores from Station ST-06

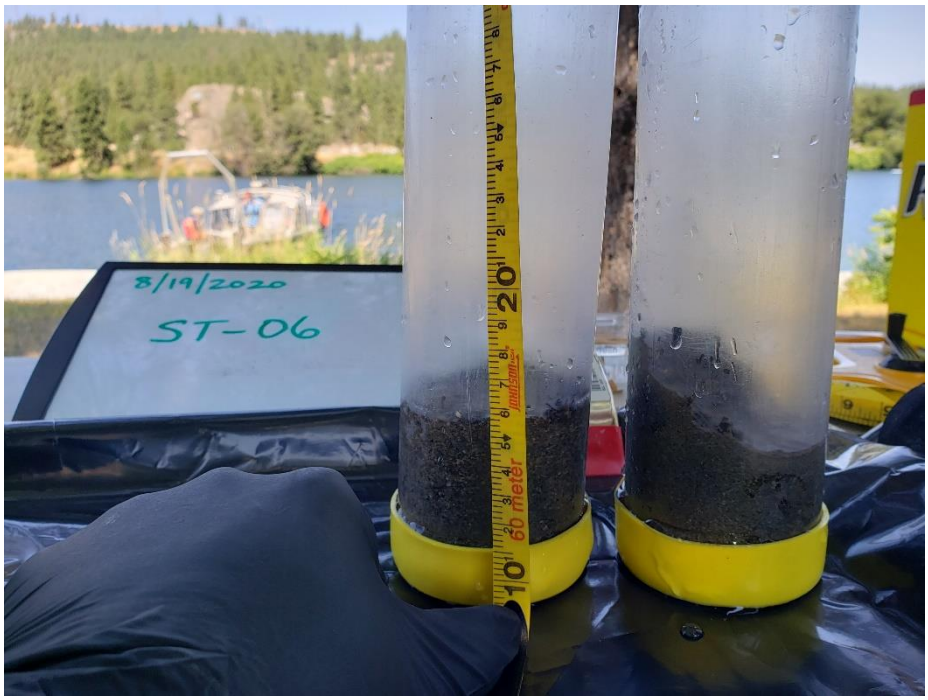


Photo 14: Sediment cores from Station ST-06

Photo 15: Sediment cores from Station ST-06 after extrusion from the core barrels

Photo 16: Sediment cores from Station ST-08

Photo 17: Sediment cores from Station ST-08

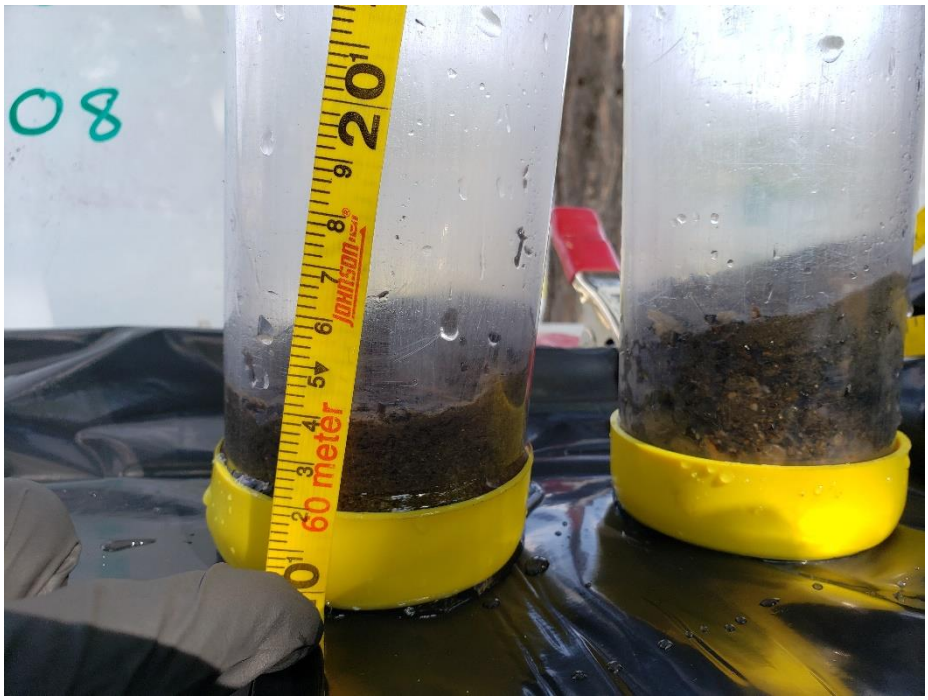


Photo 18: Sediment cores from Station ST-08

Photo 19: Sediment cores from Station ST-08 after extrusion from the core barrels

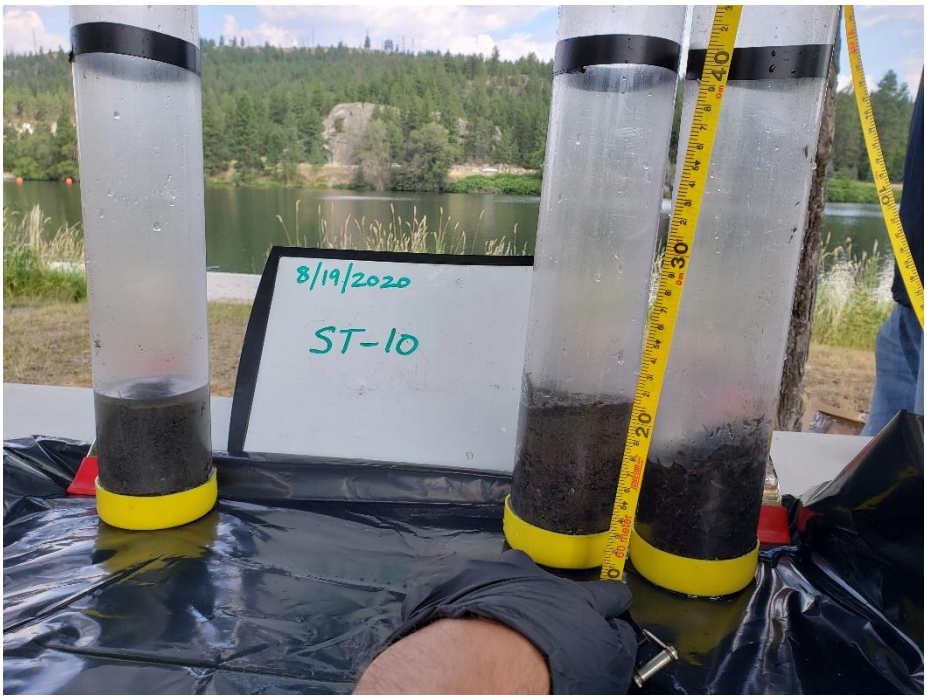


Photo 20: Sediment cores from Station ST-10

Photo 21: Sediment cores from Station ST-10 after extrusion from the core barrels

Photo 22: Sediment cores from Station ST-11 after extrusion from the core barrels

Photo 23: Sediment cores from Station ST-12 after extrusion from the core barrels

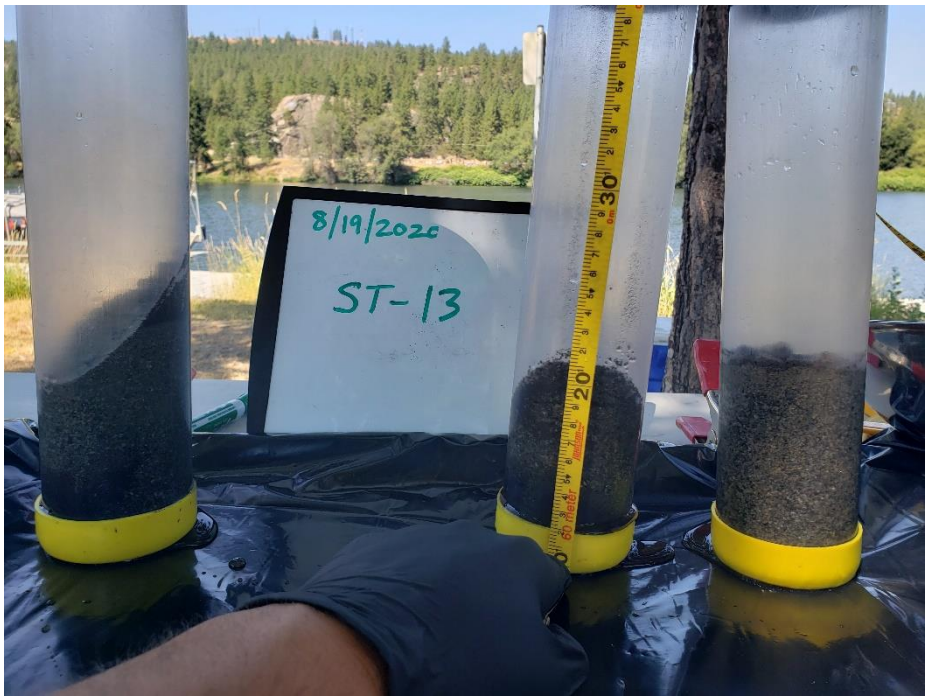


Photo 24: Sediment cores from Station ST-13

Photo 25: Sediment cores from Station ST-13

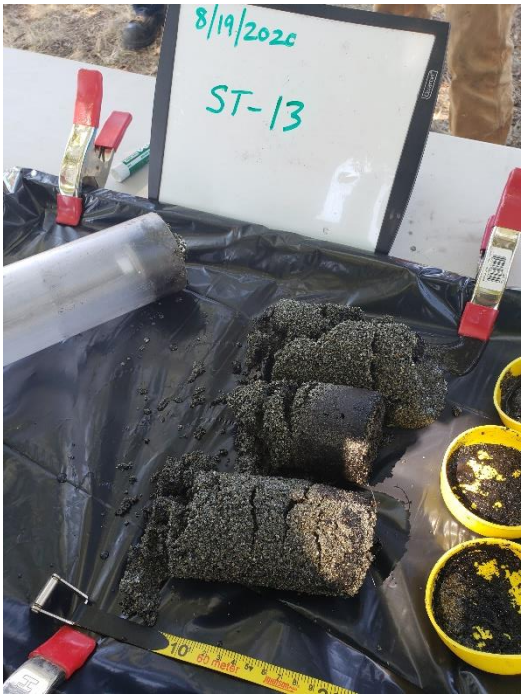


Photo 26: Sediment cores from Station ST-13 after extrusion from the core barrels

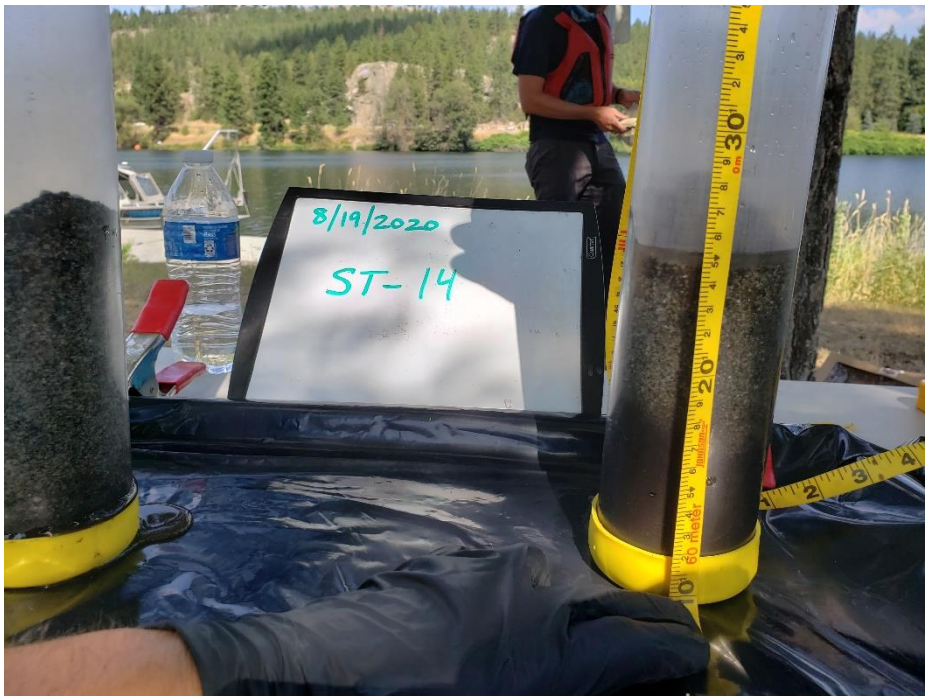


Photo 27: Sediment cores from Station ST-14

Photo 28: Sediment cores from Station ST-14

Photo 29: Sediment cores from Station ST-14 after extrusion from the core barrels

Photo 30: Sediment sample ST-14-Surface Grab

Photo 31: Sediment cores from Station ST-15

Photo 32: Sediment cores from Station ST-15

Photo 33: Sediment cores from Station ST-15 after extrusion from the core barrels

Photo 34: Sediment cores from Station ST-15 after extrusion from the core barrels

APPENDIX C - LABORATORY ANALYTICAL REPORT J96897-1

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-96897-1
Client Project/Site: Upriver Dam Sediment Sampling, Spokane WA

For:
DH Environmental, Inc
1011 SW Klickitat Way
Suite 210
Seattle, Washington 98134

Attn: Mr. Nathan Moxley

Authorized for release by:
9/16/2020 9:24:31 AM

Ashley Worthy, Project Manager I
(253)248-4965
Ashley.Worthy@Eurofinset.com

Table of Contents

Job ID: 580-96897-1

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-96897-1

Comments
No additional comments.

Receipt
The samples were received on 8/20/2020 9:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.5º C.

GC Semi VOA
Method 8082A: The (CCVIS 580-336695/3) recovered outside drift limits for Tetrachloro-m-xylene and DCB Decachlorobiphenyl surrogates on one column. Results have been reported from the passing column.

Method 8082A: The continuing calibration verification (CCV) associated with batch 580-336695 recovered above the upper control limit for PCB-1242, PCB-1268. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: RB-20200819 (580-96897-16) and (CCV 580-336695/6).

Method 8082A: (CCVIS 580-337291/3) recovers outside drift limits for DCB Decachlorobiphenyl. Associated client samples and QC recovered within control limits for this surrogate; therefore, the data is reported.
(CCVIS 580-337291/3)

Method 8082A: The continuing calibration verification (CCV) associated with 580-337291 recovered outside the control limits for PCB-1260 and Tetrachloro-m-xylene on one column. Results are confirmed on both columns and reported from the passing column. The associated samples are: ST-01-SURFACE GRAB (580-96897-1), ST-04-SURFACE GRAB (580-96897-4), ST-11-SAND LAYER (580-96897-5), ST-05-SURFACE GRAB (580-96897-6), ST-12-COAL LAYER (580-96897-7), ST-15-COAL LAYER (580-96897-10), ST-14-COAL LAYER (580-96897-12), ST-06-SURFACE GRAB (580-96897-13), ST-13-SAND LAYER (580-96897-15), (CCV 580-337291/19) and (CCVIS 580-337291/3).

Method 8082A: Internal standard (ISTD) response for the following sample exceeded the control limit on Column ZB-CLPesticides-1 and ZB-CLPesticides-2: ST-12-COAL LAYER (580-96897-7). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Method 8082A: The following samples required a mercury clean-up to reduce matrix interferences caused by sulfur: ST-01-SURFACE GRAB (580-96897-1), ST-04-SURFACE GRAB (580-96897-4), ST-11-SAND LAYER (580-96897-5), ST-05-SURFACE GRAB (580-96897-6), ST-12-COAL LAYER (580-96897-7), ST-15-COAL LAYER (580-96897-10), ST-14-COAL LAYER (580-96897-12), ST-06-SURFACE GRAB (580-96897-13), ST-13-SAND LAYER (580-96897-15), (LCS 580-337120/2-A), (MB 580-337120/1-A), (580-96897-C-1-D MS) and (580-96897-C-1-E MSD).

Method 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 580-337120 and analytical batch 580-337291 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8082A: Surrogate recovery for the following samples were outside control limits: ST-03-SURFACE GRAB (580-96897-3), ST-12-COAL LAYER (580-96897-7), DUPLICATE-1 (580-96897-8), ST-10-SURFACE GRAB (580-96897-9), ST-15-COAL LAYER (580-96897-10), ST-08-SURFACE GRAB (580-96897-11), ST-14-COAL LAYER (580-96897-12), ST-06-SURFACE GRAB (580-96897-13) and ST-13-COAL LAYER (580-96897-14). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8082A: Internal standard (ISTD) response for the following samples exceeded the control limit on Column ZB-CLPesticides-1 and ZB-CLPesticides-2: ST-10-SURFACE GRAB (580-96897-9) and ST-08-SURFACE GRAB (580-96897-11). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Method 8082A: Internal standard responses were outside of acceptance limits for the following samples: ST-10-SURFACE GRAB (580-96897-9) and ST-08-SURFACE GRAB (580-96897-11). The sample(s) shows evidence of matrix interference.

Job ID: 580-96897-1 (Continued)

Laboratory: Eurofins TestAmerica, Seattle (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin
Method 1668C: Ion abundance ratios are outside criteria for the Isotope Dilution Analytes (IDA) PCB-206L and PCB-208L associated with the following samples: ST-01-SURFACE GRAB (580-96897-1), ST-02-SURFACE GRAB (580-96897-2), ST-03-SURFACE GRAB (580-96897-3), ST-04-SURFACE GRAB (580-96897-4), ST-11-SAND LAYER (580-96897-5), ST-05-SURFACE GRAB (580-96897-6), DUPLICATE-1 (580-96897-8), (LCS 320-406298/2-A), (LCSD 320-406298/3-A), (WDMCCV 320-408005/47) and (WDMCCV 320-408006/57). The theoretical area for the IDA was used to quantitate recovery.

Method 1668C: The Isotope Dilution Analyte (IDA) recovery associated with the following laboratory control spike duplicate (LCSD) is below the method recommended limit: (LCSD 320-406298/3-A). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in this LCSD. All native spike analyte recoveries and relative percent difference (RPD) are in control. There is no adverse impact on the data reported; no further corrective action was taken.

Method 1668C: Ion abundance ratios are outside criteria for the Isotope Dilution Analytes (IDA) PCB-206L and PCB-208L associated with the following WDMCCV only: (WDMCCV 320-408853/1). The theoretical area for the IDA was used to quantitate recovery.

Method 1668C: The ion abundance ratio is outside criteria for the Isotope Dilution Analyte (IDA) PCB-19L associated with the following sample: ST-10-SURFACE GRAB (580-96897-9). The theoretical area for the IDA was used to quantitate recovery.

Method 1668C: The following samples exhibited elevated noise or matrix interferences for one or more analytes causing elevation of the detection limit (EDL): ST-01-SURFACE GRAB (580-96897-1), ST-03-SURFACE GRAB (580-96897-3), DUPLICATE-1 (580-96897-8), ST-10-SURFACE GRAB (580-96897-9), ST-08-SURFACE GRAB (580-96897-11) and ST-14-COAL LAYER (580-96897-12) . The reporting limit (RL) for the affected analytes has been raised to be equal to the EDL, and a "G" qualifier applied.

Method 1668C: The following samples were diluted due to the nature of the sample matrix: ST-12-COAL LAYER (580-96897-7), ST-10-SURFACE GRAB (580-96897-9), ST-15-COAL LAYER (580-96897-10), ST-14-COAL LAYER (580-96897-12) and ST-13-COAL LAYER (580-96897-14). Elevated reporting limits (RLs) are provided.

Method 1668C: The method blank for preparation batch 320-406298 contained PCB-3 above the reporting limit (RL). The samples associated with this method blank did not contain the target compound over the RL; therefore, re-extraction and re-analysis of samples were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method 3510C: The emulsions were broken up using sodium sulfate and rinsed with solution.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Dioxin Prep
Method HRMS-Sox: The following sample formed crystal at the final volume process: ST-10-SURFACE GRAB (580-96897-9). The sample is associated with preparation batch 320-406298.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

Dioxin

Qualifier	Qualifier Description
*5	Isotope dilution analyte is outside acceptance limits.
B	Compound was found in the blank and sample.
G	The reported quantitation limit has been raised due to an exhibited elevated noise or matrix interference
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample ID: ST-01-SURFACE GRAB
Lab Sample ID: 580-96897-1

Date Collected: 08/18/20 11:00
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 55.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		3.5	1.3	ug/Kg	☼	08/31/20 10:17	09/02/20 05:14	1
PCB-1221	ND		3.5	0.74	ug/Kg	☼	08/31/20 10:17	09/02/20 05:14	1
PCB-1232	ND		3.5	0.86	ug/Kg	☼	08/31/20 10:17	09/02/20 05:14	1
PCB-1242	ND		3.5	0.61	ug/Kg	☼	08/31/20 10:17	09/02/20 05:14	1
PCB-1248	ND		3.5	0.51	ug/Kg	☼	08/31/20 10:17	09/02/20 05:14	1
PCB-1254	ND		3.5	0.65	ug/Kg	☼	08/31/20 10:17	09/02/20 05:14	1
PCB-1260	ND		3.5	1.3	ug/Kg	☼	08/31/20 10:17	09/02/20 05:14	1
Polychlorinated biphenyls, Total	ND		3.5	1.3	ug/Kg	☼	08/31/20 10:17	09/02/20 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*44 - 135*	*08/31/20 10:17*	*09/02/20 05:14*	*1*
Tetrachloro-m-xylene	*73*		*48 - 122*	*08/31/20 10:17*	*09/02/20 05:14*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**3.8**	**J B**	36	0.29	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-2	**2.6**	**J q B**	36	0.26	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-3	**10**	**J B**	36	0.30	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-4	ND		36	5.3	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-5	ND		36	2.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-6	**5.8**	**J q**	36	2.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-7	ND		36	2.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-8	**41**		36	2.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-9	ND		36	2.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-10	ND		36	4.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-11	**22**	**J B**	36	2.6	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-12/13	**14**	**J**	72	2.8	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-14	ND		36	2.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-15	**210**		36	2.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-16	**15**	**J**	36	0.78	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-17	**28**	**J**	36	0.74	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-18/30	**51**	**J B**	72	0.54	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-19	**3.9**	**J**	36	0.77	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-20/28	**490**	**B**	110	5.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-21/33	**100**	**B**	72	5.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-22	**110**		36	4.9	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-23	ND		36	5.1	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-24	**1.5**	**J**	36	0.57	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-25	**21**	**J**	36	4.6	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-26/29	**49**	**J**	72	5.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-27	**5.5**	**J**	36	0.52	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-31	**400**	**B**	36	5.0	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-32	**24**	**J**	36	0.51	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-34	ND		36	5.1	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-35	**11**	**J**	36	5.5	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-36	ND		36	5.6	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-37	**320**		36	5.7	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-38	ND		36	5.9	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-39	ND		36	5.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-40/71	**81**		72	3.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-01-SURFACE GRAB
Lab Sample ID: 580-96897-1
Date Collected: 08/18/20 11:00
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 55.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	16	J	36	5.0	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-42	54		36	3.6	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-43	7.2	J	36	3.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-44/47/65	190	B	110	3.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-45	20	J	36	4.1	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-46	5.7	J	36	4.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-48	38		36	3.7	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-49/69	150	B	72	3.0	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-50/53	23	J	72	3.8	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-51	5.7	J	36	3.1	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-52	200	B	36	3.3	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-54	0.79	J q	36	0.16	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-55	ND		36	3.0	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-56	230		36	3.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-57	ND		36	3.5	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-58	ND		36	2.9	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-59/62/75	29	J	110	2.9	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-60	140		36	3.7	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-61/70/74/76	670	B	140	3.3	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-63	16	J	36	3.6	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-64	170	B	36	2.7	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-66	690	B	36	3.1	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-67	ND		36	2.8	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-68	ND		36	3.1	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-72	ND		36	3.5	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-73	ND		36	2.6	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-77	120	G	5.5	5.5	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-78	ND		36	3.6	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-79	ND		36	3.3	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-80	ND		36	3.0	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-81	ND	G	4.8	4.8	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-82	24	J	36	2.7	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-83	ND		36	3.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-84	38		36	2.9	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-85/116/117	65	J	110	2.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-86/87/97/108/119/125	120	J	220	2.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-88/91	28	J	72	2.6	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-89	ND		36	2.8	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-90/101/113	140	B	110	2.3	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-92	26	J	36	2.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-93/100	ND		72	2.5	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-107/124	10	J	72	2.1	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-94	ND		36	2.7	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-95	67	B	36	2.5	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-96	1.6	J	36	0.22	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-98/102	ND		72	2.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-99	100		36	2.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-103	ND		36	2.3	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-104	0.64	J q	36	0.18	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-01-SURFACE GRAB
Lab Sample ID: 580-96897-1
Date Collected: 08/18/20 11:00
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 55.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**130**		7.2	2.2	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-106	ND		36	2.3	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-110/115	**190**	**B**	72	1.9	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-109	**19**	**J**	36	1.8	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-111	ND		36	1.9	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-112	ND		36	1.6	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-114	**8.9**		3.6	2.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-118	**220**	**B**	7.2	2.1	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-120	ND		36	1.7	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-121	ND		36	1.7	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-122	ND		36	2.3	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-123	**9.6**		3.6	2.4	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-126	ND		3.6	2.6	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-127	ND		36	2.3	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-128/166	**18**	**J**	72	0.52	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-129/138/163	**100**	**J B**	110	0.56	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-130	**7.4**	**J**	36	0.69	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-131	**0.95**	**J q**	36	0.65	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-132	**25**	**J**	36	0.64	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-133	**1.1**	**J q**	36	0.61	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-134/143	**3.3**	**J**	72	0.60	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-135/151	**24**	**J B**	72	0.57	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-136	**6.4**	**J**	36	0.41	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-137	**5.1**	**J**	36	0.60	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-139/140	**1.8**	**J**	72	0.55	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-141	**15**	**J**	36	0.60	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-142	ND		36	0.62	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-144	ND		36	0.52	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-145	ND		36	0.44	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-146	**12**	**J**	36	0.47	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-147/149	**54**	**J B**	72	0.54	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-148	ND		36	0.55	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-150	ND		36	0.40	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-152	ND		36	0.43	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-153/168	**68**	**J B**	72	0.46	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-154	ND		36	0.52	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-155	ND		36	0.84	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-156/157	**21**		7.2	0.35	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-158	**9.9**	**J**	36	0.41	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-159	**0.68**	**J**	36	0.28	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-160	ND		36	0.51	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-161	ND		36	0.48	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-162	**0.76**	**J q**	36	0.31	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-164	**7.6**	**J**	36	0.50	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-165	ND		36	0.46	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-167	**7.2**		3.6	0.28	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-169	ND		3.6	0.30	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-170	**25**	**J**	36	0.57	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-171/173	**6.2**	**J q**	72	0.54	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1

Client Sample ID: ST-01-SURFACE GRAB
Lab Sample ID: 580-96897-1

Date Collected: 08/18/20 11:00
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 55.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	4.8	J	36	0.57	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-174	23	J B	36	0.52	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-175	0.70	J q	36	0.15	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-176	2.2	J	36	0.12	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-177	15	J	36	0.51	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-178	4.9	J	36	0.16	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-179	8.5	J	36	0.11	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-180/193	49	J B	72	0.43	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-181	ND		36	0.50	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-182	ND		36	0.15	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-183	12	J B	36	0.43	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-184	ND		36	0.11	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-185	3.7	J q	36	0.55	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-186	ND		36	0.099	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-187	27	J	36	0.13	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-188	0.53	J	36	0.19	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-189	1.6	J	3.6	0.16	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-190	5.2	J	36	0.37	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-191	0.61	J q	36	0.39	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-192	ND		36	0.36	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-194	16	J	36	0.22	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-195	6.0	J	36	0.22	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-196	7.1	J	36	0.15	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-197	0.23	J	36	0.10	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-198/199	19	J	72	0.14	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-200	1.8	J	36	0.12	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-201	1.2	J	36	0.12	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-202	4.4	J	36	0.15	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-203	10	J	36	0.13	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-204	ND		36	0.11	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-205	0.88	J	36	0.16	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-206	8.7	J	36	0.22	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-207	0.72	J q	36	0.20	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-208	2.7	J	36	0.26	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1
PCB-209	3.9	J q	36	0.44	pg/g	☼	08/25/20 07:18	08/31/20 06:19	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*53*		*5 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-3L	*54*		*5 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-4L	*50*		*5 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-15L	*58*		*5 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-19L	*55*		*5 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-37L	*85*		*5 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-54L	*66*		*5 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-77L	*55*		*10 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-81L	*78*		*10 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-104L	*91*		*10 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-105L	*79*		*10 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-114L	*78*		*10 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*
PCB-118L	*78*		*10 - 145*	*08/25/20 07:18*	*08/31/20 06:19*	*1*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-01-SURFACE GRAB
Lab Sample ID: 580-96897-1
Date Collected: 08/18/20 11:00
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 55.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	76		10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-126L	86		10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-155L	45		10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-156L/157L	106		10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-167L	97		10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-169L	107		10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-188L	51		10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-189L	111		10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-202L	57		10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-205L	87		10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-206L	61	q	10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-208L	31	q	10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-209L	23		10 - 145	08/25/20 07:18	08/31/20 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	58		5 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-111L	79		10 - 145	08/25/20 07:18	08/31/20 06:19	1
PCB-178L	79		10 - 145	08/25/20 07:18	08/31/20 06:19	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		0.27	0.054	mg/Kg	☼	08/24/20 14:16	08/25/20 13:53	5
Cadmium	3.3		0.43	0.041	mg/Kg	☼	08/24/20 14:16	08/25/20 13:53	5
Copper	10		0.54	0.12	mg/Kg	☼	08/24/20 14:16	08/25/20 13:53	5
Lead	99		0.27	0.026	mg/Kg	☼	08/24/20 14:16	08/25/20 13:53	5
Zinc	870		2.7	0.87	mg/Kg	☼	08/24/20 14:16	08/25/20 13:53	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	55.5		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	44.5		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: ST-02-SURFACE GRAB
Lab Sample ID: 580-96897-2
Date Collected: 08/18/20 11:28
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 68.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.9	1.1	ug/Kg	☼	08/31/20 10:17	09/02/20 06:08	1
PCB-1221	ND		2.9	0.60	ug/Kg	☼	08/31/20 10:17	09/02/20 06:08	1
PCB-1232	ND		2.9	0.70	ug/Kg	☼	08/31/20 10:17	09/02/20 06:08	1
PCB-1242	ND		2.9	0.50	ug/Kg	☼	08/31/20 10:17	09/02/20 06:08	1
PCB-1248	ND		2.9	0.42	ug/Kg	☼	08/31/20 10:17	09/02/20 06:08	1
PCB-1254	ND		2.9	0.53	ug/Kg	☼	08/31/20 10:17	09/02/20 06:08	1
PCB-1260	ND		2.9	1.1	ug/Kg	☼	08/31/20 10:17	09/02/20 06:08	1
Polychlorinated biphenyls, Total	ND		2.9	1.1	ug/Kg	☼	08/31/20 10:17	09/02/20 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*44 - 135*	*08/31/20 10:17*	*09/02/20 06:08*	*1*
Tetrachloro-m-xylene	*73*		*48 - 122*	*08/31/20 10:17*	*09/02/20 06:08*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**3.1**	**J B**	29	0.31	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-2	**6.1**	**J B**	29	0.28	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-3	**24**	**J B**	29	0.32	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-4	ND		29	4.2	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-5	ND		29	1.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-6	**6.1**	**J**	29	1.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-7	ND		29	1.8	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-8	**42**		29	1.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-9	ND		29	1.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-10	ND		29	3.5	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-11	**12**	**J q B**	29	2.0	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-12/13	**17**	**J**	57	2.1	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-14	ND		29	1.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-15	**250**		29	1.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-16	**9.0**	**J**	29	0.56	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-17	**15**	**J**	29	0.53	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-18/30	**33**	**J B**	57	0.39	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-19	**3.3**	**J**	29	0.53	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-20/28	**360**	**B**	86	3.8	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-21/33	**65**	**B**	57	3.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-22	**93**		29	3.6	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-23	ND		29	3.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-24	**0.82**	**J**	29	0.41	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-25	**13**	**J**	29	3.3	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-26/29	**32**	**J**	57	3.8	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-27	**3.2**	**J**	29	0.37	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-31	**370**	**B**	29	3.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-32	**23**	**J**	29	0.37	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-34	ND		29	3.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-35	**9.3**	**J**	29	4.0	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-36	ND		29	4.1	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-37	**340**		29	4.2	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-38	ND		29	4.3	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-39	ND		29	3.8	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-40/71	**45**	**J**	57	1.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-02-SURFACE GRAB
Lab Sample ID: 580-96897-2
Date Collected: 08/18/20 11:28
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 68.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	5.7	J	29	3.0	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-42	25	J	29	2.2	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-43	4.4	J	29	2.1	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-44/47/65	89	B	86	2.0	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-45	10	J	29	2.5	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-46	ND		29	2.5	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-48	18	J	29	2.2	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-49/69	110	B	57	1.8	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-50/53	13	J	57	2.3	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-51	ND		29	1.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-52	160	B	29	2.0	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-54	0.27	J	29	0.16	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-55	ND		29	1.1	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-56	140		29	1.2	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-57	ND		29	1.3	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-58	ND		29	1.1	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-59/62/75	16	J	86	1.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-60	110		29	1.4	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-61/70/74/76	290	B	110	1.2	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-63	ND		29	1.3	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-64	170	B	29	1.6	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-66	330	B	29	1.2	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-67	ND		29	1.0	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-68	ND		29	1.1	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-72	2.3	J	29	1.3	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-73	ND		29	1.5	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-77	120		2.9	1.6	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-78	ND		29	1.3	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-79	ND		29	1.2	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-80	ND		29	1.1	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-81	ND		2.9	1.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-82	11	J	29	2.1	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-83	ND		29	2.6	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-84	8.2	J	29	2.2	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-85/116/117	46	J	86	1.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-86/87/97/108/119/125	60	J	170	1.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-88/91	9.7	J	57	2.0	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-89	ND		29	2.1	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-90/101/113	72	J B	86	1.8	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-92	13	J	29	1.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-93/100	ND		57	1.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-107/124	5.5	J q	57	1.6	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-94	ND		29	2.1	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-95	29	B	29	1.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-96	1.1	J	29	0.21	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-98/102	ND		57	1.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-99	55		29	1.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-103	ND		29	1.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-104	ND		29	0.15	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1

Client Sample ID: ST-02-SURFACE GRAB
Lab Sample ID: 580-96897-2
Date Collected: 08/18/20 11:28
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 68.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**92**		5.7	1.7	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-106	ND		29	1.8	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-110/115	**110**	**B**	57	1.5	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-109	**11**	**J**	29	1.4	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-111	ND		29	1.5	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-112	ND		29	1.2	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-114	**5.9**		2.9	1.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-118	**140**	**B**	5.7	1.6	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-120	ND		29	1.3	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-121	ND		29	1.3	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-122	ND		29	1.8	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-123	**6.6**		2.9	1.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-126	ND		2.9	1.9	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-127	ND		29	1.8	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-128/166	**9.7**	**J**	57	0.27	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-129/138/163	**51**	**J B**	86	0.29	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-130	**3.7**	**J**	29	0.36	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-131	ND		29	0.33	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-132	**11**	**J**	29	0.33	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-133	**0.59**	**J q**	29	0.32	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-134/143	ND		57	0.31	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-135/151	**10**	**J B**	57	0.29	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-136	**2.9**	**J**	29	0.21	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-137	**3.2**	**J**	29	0.31	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-139/140	ND		57	0.28	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-141	**6.4**	**J**	29	0.31	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-142	ND		29	0.32	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-144	**1.2**	**J**	29	0.27	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-145	ND		29	0.23	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-146	**6.0**	**J**	29	0.24	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-147/149	**22**	**J B**	57	0.28	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-148	ND		29	0.28	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-150	ND		29	0.21	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-152	ND		29	0.22	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-153/168	**33**	**J B**	57	0.24	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-154	ND		29	0.27	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-155	ND		29	0.29	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-156/157	**11**		5.7	0.28	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-158	**4.7**	**J**	29	0.21	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-159	**0.23**	**J**	29	0.20	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-160	ND		29	0.26	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-161	ND		29	0.25	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-162	ND		29	0.22	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-164	**3.6**	**J**	29	0.26	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-165	ND		29	0.24	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-167	**3.7**		2.9	0.22	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-169	ND		2.9	0.21	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-170	**13**	**J**	29	0.26	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-171/173	**3.0**	**J**	57	0.25	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-02-SURFACE GRAB
Lab Sample ID: 580-96897-2
Date Collected: 08/18/20 11:28
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 68.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	2.5	J	29	0.26	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-174	11	J B	29	0.24	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-175	0.36	J q	29	0.12	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-176	1.0	J	29	0.096	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-177	7.0	J	29	0.23	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-178	2.3	J	29	0.12	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-179	4.5	J	29	0.084	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-180/193	26	J B	57	0.20	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-181	ND		29	0.23	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-182	ND		29	0.12	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-183	6.6	J B	29	0.20	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-184	ND		29	0.088	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-185	1.6	J	29	0.25	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-186	ND		29	0.079	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-187	13	J	29	0.10	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-188	ND		29	0.12	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-189	0.78	J	2.9	0.096	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-190	2.8	J	29	0.17	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-191	ND		29	0.18	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-192	ND		29	0.16	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-194	8.1	J	29	0.15	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-195	2.4	J q	29	0.15	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-196	4.0	J	29	0.11	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-197	0.27	J q	29	0.072	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-198/199	11	J	57	0.10	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-200	0.91	J q	29	0.088	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-201	1.1	J	29	0.086	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-202	2.2	J	29	0.091	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-203	6.2	J	29	0.092	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-204	ND		29	0.080	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-205	0.69	J q	29	0.12	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-206	5.6	J q	29	0.22	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-207	0.70	J	29	0.15	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-208	1.7	J	29	0.15	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1
PCB-209	2.7	J q	29	0.10	pg/g	☼	08/25/20 07:18	08/31/20 07:34	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*59*		*5 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-3L	*61*		*5 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-4L	*56*		*5 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-15L	*63*		*5 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-19L	*58*		*5 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-37L	*88*		*5 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-54L	*71*		*5 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-77L	*75*		*10 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-81L	*74*		*10 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-104L	*94*		*10 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-105L	*77*		*10 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-114L	*73*		*10 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*
PCB-118L	*77*		*10 - 145*	*08/25/20 07:18*	*08/31/20 07:34*	*1*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-02-SURFACE GRAB
Lab Sample ID: 580-96897-2
Date Collected: 08/18/20 11:28
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 68.8

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	75		10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-126L	85		10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-155L	67		10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-156L/157L	103		10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-167L	94		10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-169L	112		10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-188L	73		10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-189L	111		10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-202L	79		10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-205L	88		10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-206L	70	q	10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-208L	64	q	10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-209L	60		10 - 145	08/25/20 07:18	08/31/20 07:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	62		5 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-111L	73		10 - 145	08/25/20 07:18	08/31/20 07:34	1
PCB-178L	75		10 - 145	08/25/20 07:18	08/31/20 07:34	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		0.21	0.043	mg/Kg	☼	08/24/20 14:16	08/25/20 13:56	5
Cadmium	1.8		0.34	0.033	mg/Kg	☼	08/24/20 14:16	08/25/20 13:56	5
Copper	7.7		0.43	0.095	mg/Kg	☼	08/24/20 14:16	08/25/20 13:56	5
Lead	83		0.21	0.021	mg/Kg	☼	08/24/20 14:16	08/25/20 13:56	5
Zinc	820		2.2	0.69	mg/Kg	☼	08/24/20 14:16	08/25/20 13:56	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	68.8		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	31.2		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: ST-03-SURFACE GRAB
Lab Sample ID: 580-96897-3

Date Collected: 08/18/20 11:55
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 71.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.7	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 06:26	1
PCB-1221	ND		2.7	0.57	ug/Kg	☼	08/31/20 10:17	09/02/20 06:26	1
PCB-1232	ND		2.7	0.67	ug/Kg	☼	08/31/20 10:17	09/02/20 06:26	1
PCB-1242	ND		2.7	0.48	ug/Kg	☼	08/31/20 10:17	09/02/20 06:26	1
PCB-1248	ND		2.7	0.39	ug/Kg	☼	08/31/20 10:17	09/02/20 06:26	1
PCB-1254	ND		2.7	0.50	ug/Kg	☼	08/31/20 10:17	09/02/20 06:26	1
PCB-1260	ND		2.7	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 06:26	1
Polychlorinated biphenyls, Total	ND		2.7	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 06:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*60*		*44 - 135*	*08/31/20 10:17*	*09/02/20 06:26*	*1*
Tetrachloro-m-xylene	*56*		*48 - 122*	*08/31/20 10:17*	*09/02/20 06:26*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**3.5**	**J B**	28	0.28	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-2	**2.6**	**J B**	28	0.25	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-3	**7.3**	**J B**	28	0.29	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-4	ND		28	6.2	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-5	ND		28	5.4	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-6	**9.4**	**J**	28	5.0	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-7	ND		28	5.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-8	**60**		28	4.9	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-9	ND		28	5.0	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-10	ND		28	4.9	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-11	**20**	**J B**	28	5.9	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-12/13	**19**	**J**	55	6.2	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-14	ND		28	5.4	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-15	**290**		28	4.8	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-16	**18**	**J**	28	1.2	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-17	**36**		28	1.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-18/30	**59**	**B**	55	0.81	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-19	**4.1**	**J q**	28	1.2	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-20/28	**570**	**B**	83	5.8	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-21/33	**100**	**B**	55	6.0	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-22	**120**		28	5.5	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-23	ND		28	5.7	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-24	**1.2**	**J**	28	0.85	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-25	**23**	**J**	28	5.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-26/29	**57**		55	5.8	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-27	**6.8**	**J**	28	0.78	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-31	**480**	**B**	28	5.6	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-32	**32**		28	0.77	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-34	ND		28	5.6	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-35	**11**	**J**	28	6.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-36	ND		28	6.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-37	**420**		28	6.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-38	ND		28	6.5	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-39	ND		28	5.8	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-40/71	**100**		55	2.7	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1

Client Sample ID: ST-03-SURFACE GRAB
Lab Sample ID: 580-96897-3

Date Collected: 08/18/20 11:55
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 71.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	25	J	28	4.2	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-42	70		28	3.0	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-43	9.9	J	28	2.9	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-44/47/65	230	B	83	2.8	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-45	32		28	3.4	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-46	8.5	J	28	3.5	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-48	55		28	3.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-49/69	170	B	55	2.5	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-50/53	36	J	55	3.2	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-51	7.6	J	28	2.6	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-52	250	B	28	2.8	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-54	0.76	J	28	0.17	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-55	ND		28	1.9	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-56	230		28	2.2	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-57	ND		28	2.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-58	ND		28	1.9	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-59/62/75	35	J	83	2.4	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-60	130		28	2.4	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-61/70/74/76	980	B	110	2.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-63	24	J	28	2.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-64	200	B	28	2.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-66	700	B	28	2.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-67	9.0	J	28	1.8	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-68	ND		28	2.0	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-72	4.2	J	28	2.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-73	ND		28	2.2	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-77	150	G	3.0	3.0	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-78	ND		28	2.4	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-79	ND		28	2.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-80	ND		28	2.0	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-81	5.0	G	3.1	3.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-82	20	J	28	2.7	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-83	ND		28	3.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-84	32		28	2.9	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-85/116/117	53	J	83	2.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-86/87/97/108/119/125	93	J	170	2.2	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-88/91	29	J	55	2.5	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-89	ND		28	2.7	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-90/101/113	100	B	83	2.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-92	18	J	28	2.4	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-93/100	ND		55	2.5	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-107/124	9.5	J	55	2.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-94	ND		28	2.7	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-95	57	B	28	2.5	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-96	2.0	J	28	0.20	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-98/102	ND		55	2.4	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-99	78		28	2.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-103	ND		28	2.2	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-104	ND		28	0.15	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1

Client Sample ID: ST-03-SURFACE GRAB
Lab Sample ID: 580-96897-3
Date Collected: 08/18/20 11:55
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 71.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**130**		5.5	2.2	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-106	ND		28	2.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-110/115	**150**	**B**	55	1.9	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-109	**17**	**J**	28	1.8	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-111	ND		28	1.9	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-112	ND		28	1.5	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-114	**9.0**		2.8	2.4	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-118	**210**	**B**	5.5	2.1	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-120	ND		28	1.7	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-121	ND		28	1.6	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-122	**5.7**	**J**	28	2.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-123	**8.3**		2.8	2.4	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-126	ND		2.8	2.5	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-127	ND		28	2.3	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-128/166	**12**	**J**	55	0.33	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-129/138/163	**60**	**J B**	83	0.35	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-130	**4.3**	**J**	28	0.43	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-131	ND		28	0.40	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-132	**14**	**J**	28	0.40	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-133	**0.67**	**J**	28	0.38	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-134/143	ND		55	0.38	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-135/151	**11**	**J B**	55	0.35	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-136	**3.1**	**J**	28	0.26	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-137	**4.2**	**J**	28	0.38	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-139/140	**1.2**	**J**	55	0.34	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-141	**9.3**	**J**	28	0.37	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-142	ND		28	0.38	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-144	**1.3**	**J**	28	0.33	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-145	ND		28	0.27	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-146	**6.3**	**J**	28	0.29	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-147/149	**26**	**J B**	55	0.34	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-148	ND		28	0.34	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-150	ND		28	0.25	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-152	ND		28	0.27	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-153/168	**38**	**J B**	55	0.28	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-154	ND		28	0.32	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-155	ND		28	0.35	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-156/157	**18**		5.5	0.31	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-158	**6.3**	**J**	28	0.26	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-159	**0.37**	**J q**	28	0.23	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-160	ND		28	0.32	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-161	ND		28	0.30	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-162	ND		28	0.26	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-164	**4.0**	**J**	28	0.31	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-165	ND		28	0.29	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-167	**5.4**		2.8	0.26	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-169	ND		2.8	0.26	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-170	**20**	**J**	28	0.35	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-171/173	**4.5**	**J**	55	0.33	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1

Client Sample ID: ST-03-SURFACE GRAB
Lab Sample ID: 580-96897-3
Date Collected: 08/18/20 11:55
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 71.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	3.4	J	28	0.35	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-174	15	J B	28	0.32	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-175	0.31	J q	28	0.11	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-176	1.5	J	28	0.094	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-177	9.0	J	28	0.31	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-178	2.5	J	28	0.12	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-179	4.8	J	28	0.083	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-180/193	37	J B	55	0.27	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-181	ND		28	0.30	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-182	ND		28	0.12	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-183	8.7	J B	28	0.26	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-184	ND		28	0.086	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-185	2.8	J	28	0.34	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-186	ND		28	0.077	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-187	16	J	28	0.099	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-188	0.13	J	28	0.12	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-189	1.4	J	2.8	0.12	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-190	4.2	J	28	0.22	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-191	0.65	J	28	0.24	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-192	ND		28	0.22	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-194	14	J	28	0.15	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-195	4.9	J	28	0.15	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-196	6.7	J	28	0.096	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-197	0.37	J q	28	0.064	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-198/199	14	J	55	0.090	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-200	1.5	J q	28	0.078	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-201	1.5	J	28	0.076	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-202	2.4	J	28	0.080	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-203	8.5	J	28	0.081	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-204	ND		28	0.070	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-205	0.91	J q	28	0.13	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-206	6.0	J q	28	0.22	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-207	0.98	J	28	0.15	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-208	1.7	J	28	0.15	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1
PCB-209	2.4	J	28	0.088	pg/g	☼	08/25/20 07:18	08/31/20 08:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*52*		*5 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-3L	*53*		*5 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-4L	*51*		*5 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-15L	*56*		*5 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-19L	*51*		*5 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-37L	*85*		*5 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-54L	*64*		*5 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-77L	*68*		*10 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-81L	*67*		*10 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-104L	*84*		*10 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-105L	*73*		*10 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-114L	*70*		*10 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*
PCB-118L	*69*		*10 - 145*	*08/25/20 07:18*	*08/31/20 08:49*	*1*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-03-SURFACE GRAB
Lab Sample ID: 580-96897-3
Date Collected: 08/18/20 11:55
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 71.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	69		10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-126L	80		10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-155L	60		10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-156L/157L	99		10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-167L	90		10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-169L	104		10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-188L	64		10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-189L	102		10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-202L	73		10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-205L	82		10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-206L	66	q	10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-208L	60	q	10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-209L	58		10 - 145	08/25/20 07:18	08/31/20 08:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	61		5 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-111L	69		10 - 145	08/25/20 07:18	08/31/20 08:49	1
PCB-178L	71		10 - 145	08/25/20 07:18	08/31/20 08:49	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		0.21	0.042	mg/Kg	☼	08/24/20 14:16	08/25/20 14:00	5
Cadmium	2.1		0.33	0.032	mg/Kg	☼	08/24/20 14:16	08/25/20 14:00	5
Copper	8.7		0.42	0.092	mg/Kg	☼	08/24/20 14:16	08/25/20 14:00	5
Lead	83		0.21	0.020	mg/Kg	☼	08/24/20 14:16	08/25/20 14:00	5
Zinc	940		2.1	0.67	mg/Kg	☼	08/24/20 14:16	08/25/20 14:00	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	71.4		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	28.6		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: ST-04-SURFACE GRAB
Lab Sample ID: 580-96897-4

Date Collected: 08/18/20 12:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 74.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.6	0.97	ug/Kg	☼	08/31/20 10:17	09/02/20 06:43	1
PCB-1221	ND		2.6	0.55	ug/Kg	☼	08/31/20 10:17	09/02/20 06:43	1
PCB-1232	ND		2.6	0.64	ug/Kg	☼	08/31/20 10:17	09/02/20 06:43	1
PCB-1242	ND		2.6	0.46	ug/Kg	☼	08/31/20 10:17	09/02/20 06:43	1
PCB-1248	ND		2.6	0.38	ug/Kg	☼	08/31/20 10:17	09/02/20 06:43	1
PCB-1254	ND		2.6	0.48	ug/Kg	☼	08/31/20 10:17	09/02/20 06:43	1
PCB-1260	ND		2.6	0.97	ug/Kg	☼	08/31/20 10:17	09/02/20 06:43	1
Polychlorinated biphenyls, Total	ND		2.6	0.97	ug/Kg	☼	08/31/20 10:17	09/02/20 06:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*44 - 135*	*08/31/20 10:17*	*09/02/20 06:43*	*1*
Tetrachloro-m-xylene	*49*		*48 - 122*	*08/31/20 10:17*	*09/02/20 06:43*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**2.0**	**J B**	26	0.16	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-2	**3.6**	**J B**	26	0.15	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-3	**14**	**J B**	26	0.17	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-4	ND		26	2.2	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-5	ND		26	1.7	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-6	**3.1**	**J**	26	1.6	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-7	ND		26	1.6	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-8	**24**	**J**	26	1.5	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-9	ND		26	1.5	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-10	ND		26	1.9	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-11	**12**	**J B**	26	1.8	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-12/13	**12**	**J**	52	1.9	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-14	ND		26	1.7	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-15	**190**		26	1.6	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-16	**4.6**	**J**	26	0.53	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-17	**7.5**	**J**	26	0.50	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-18/30	**14**	**J B**	52	0.37	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-19	**1.1**	**J q**	26	0.51	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-20/28	**190**	**B**	78	2.5	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-21/33	**38**	**J B**	52	2.6	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-22	**40**		26	2.4	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-23	ND		26	2.5	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-24	**0.48**	**J q**	26	0.39	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-25	**7.8**	**J**	26	2.2	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-26/29	**17**	**J**	52	2.5	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-27	**1.9**	**J**	26	0.35	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-31	**140**	**B**	26	2.5	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-32	**6.0**	**J**	26	0.35	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-34	ND		26	2.5	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-35	**8.1**	**J**	26	2.7	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-36	ND		26	2.8	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-37	**270**		26	2.8	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-38	ND		26	2.9	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-39	ND		26	2.5	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-40/71	**25**	**J**	52	1.1	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1

Client Sample ID: ST-04-SURFACE GRAB
Lab Sample ID: 580-96897-4

Date Collected: 08/18/20 12:30
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 74.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	3.8	J	26	1.6	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-42	16	J	26	1.2	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-43	2.5	J	26	1.1	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-44/47/65	55	J B	78	1.1	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-45	4.7	J	26	1.3	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-46	ND		26	1.4	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-48	11	J	26	1.2	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-49/69	43	J B	52	0.98	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-50/53	6.0	J	52	1.2	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-51	1.3	J	26	1.0	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-52	57	B	26	1.1	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-54	ND		26	0.13	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-55	ND		26	0.80	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-56	84		26	0.90	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-57	ND		26	0.95	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-58	ND		26	0.79	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-59/62/75	9.3	J	78	0.94	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-60	56		26	0.99	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-61/70/74/76	330	B	100	0.88	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-63	6.7	J	26	0.96	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-64	55	B	26	0.90	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-66	290	B	26	0.85	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-67	2.3	J	26	0.76	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-68	ND		26	0.83	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-72	1.2	J	26	0.93	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-73	ND		26	0.84	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-77	96		2.6	1.2	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-78	ND		26	0.98	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-79	ND		26	0.89	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-80	ND		26	0.81	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-81	ND		2.6	1.3	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-82	9.1	J	26	1.2	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-83	ND		26	1.5	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-84	14	J	26	1.3	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-85/116/117	23	J	78	0.94	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-86/87/97/108/119/125	40	J	160	0.97	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-88/91	11	J	52	1.1	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-89	ND		26	1.2	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-90/101/113	44	J B	78	1.0	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-92	7.3	J	26	1.1	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-93/100	ND		52	1.1	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-107/124	4.0	J	52	0.94	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-94	ND		26	1.2	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-95	20	J B	26	1.1	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-96	0.67	J	26	0.16	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-98/102	ND		52	1.1	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-99	33		26	0.95	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-103	ND		26	1.0	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-104	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-04-SURFACE GRAB
Lab Sample ID: 580-96897-4
Date Collected: 08/18/20 12:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 74.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**63**		5.2	1.0	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-106	ND		26	1.0	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-110/115	**72**	**B**	52	0.84	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-109	**7.2**	**J**	26	0.80	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-111	ND		26	0.84	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-112	ND		26	0.69	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-114	**4.1**		2.6	1.1	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-118	**97**	**B**	5.2	0.96	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-120	ND		26	0.74	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-121	ND		26	0.73	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-122	**2.5**	**J**	26	1.0	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-123	**4.1**		2.6	1.1	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-126	ND		2.6	1.2	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-127	ND		26	1.0	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-128/166	**6.0**	**J**	52	0.21	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-129/138/163	**27**	**J B**	78	0.23	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-130	**2.1**	**J**	26	0.28	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-131	ND		26	0.26	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-132	**6.7**	**J**	26	0.26	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-133	ND		26	0.25	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-134/143	**0.82**	**J**	52	0.25	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-135/151	**5.6**	**J B**	52	0.23	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-136	**1.7**	**J**	26	0.17	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-137	**1.7**	**J**	26	0.25	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-139/140	ND		52	0.22	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-141	**3.4**	**J**	26	0.25	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-142	ND		26	0.25	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-144	**0.57**	**J**	26	0.21	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-145	ND		26	0.18	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-146	**2.9**	**J**	26	0.19	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-147/149	**13**	**J B**	52	0.22	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-148	ND		26	0.22	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-150	ND		26	0.16	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-152	ND		26	0.18	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-153/168	**17**	**J B**	52	0.19	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-154	ND		26	0.21	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-155	ND		26	0.23	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-156/157	**8.3**		5.2	0.20	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-158	**2.7**	**J**	26	0.17	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-159	**0.18**	**J q**	26	0.15	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-160	ND		26	0.21	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-161	ND		26	0.20	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-162	ND		26	0.16	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-164	**2.0**	**J**	26	0.20	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-165	ND		26	0.19	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-167	**2.3**	**J**	2.6	0.16	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-169	ND		2.6	0.17	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-170	**8.1**	**J**	26	0.25	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-171/173	**1.7**	**J**	52	0.24	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1

Client Sample ID: ST-04-SURFACE GRAB
Lab Sample ID: 580-96897-4

Date Collected: 08/18/20 12:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 74.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	**1.1**	**J q**	26	0.25	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-174	**5.4**	**J B**	26	0.22	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-175	ND		26	0.12	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-176	**0.56**	**J**	26	0.098	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-177	**3.8**	**J**	26	0.22	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-178	**1.1**	**J q**	26	0.13	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-179	**2.1**	**J**	26	0.087	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-180/193	**14**	**J B**	52	0.19	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-181	ND		26	0.22	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-182	ND		26	0.12	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-183	**3.1**	**J B**	26	0.19	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-184	ND		26	0.090	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-185	ND		26	0.24	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-186	ND		26	0.081	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-187	**7.0**	**J**	26	0.10	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-188	ND		26	0.13	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-189	**0.50**	**J q**	2.6	0.11	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-190	**1.7**	**J**	26	0.16	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-191	ND		26	0.17	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-192	ND		26	0.16	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-194	**4.4**	**J**	26	0.13	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-195	**1.8**	**J**	26	0.13	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-196	**2.4**	**J**	26	0.096	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-197	ND		26	0.064	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-198/199	**5.6**	**J**	52	0.090	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-200	**0.58**	**J**	26	0.078	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-201	**0.56**	**J**	26	0.077	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-202	**1.0**	**J**	26	0.079	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-203	**3.0**	**J**	26	0.081	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-204	ND		26	0.071	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-205	**0.28**	**J q**	26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-206	**2.4**	**J q**	26	0.17	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-207	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-208	**0.93**	**J**	26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1
PCB-209	**1.3**	**J**	26	0.097	pg/g	☼	08/25/20 07:18	08/31/20 10:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*59*		*5 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-3L	*60*		*5 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-4L	*54*		*5 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-15L	*62*		*5 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-19L	*59*		*5 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-37L	*90*		*5 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-54L	*71*		*5 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-77L	*71*		*10 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-81L	*70*		*10 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-104L	*93*		*10 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-105L	*74*		*10 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-114L	*72*		*10 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*
PCB-118L	*72*		*10 - 145*	*08/25/20 07:18*	*08/31/20 10:04*	*1*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-04-SURFACE GRAB
Lab Sample ID: 580-96897-4
Date Collected: 08/18/20 12:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 74.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	71		10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-126L	82		10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-155L	69		10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-156L/157L	111		10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-167L	98		10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-169L	111		10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-188L	69		10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-189L	107		10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-202L	77		10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-205L	86		10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-206L	68	q	10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-208L	63	q	10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-209L	62		10 - 145	08/25/20 07:18	08/31/20 10:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	64		5 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-111L	74		10 - 145	08/25/20 07:18	08/31/20 10:04	1
PCB-178L	79		10 - 145	08/25/20 07:18	08/31/20 10:04	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		0.17	0.035	mg/Kg	☼	08/24/20 14:16	08/25/20 14:04	5
Cadmium	4.3		0.28	0.027	mg/Kg	☼	08/24/20 14:16	08/25/20 14:04	5
Copper	7.6		0.35	0.076	mg/Kg	☼	08/24/20 14:16	08/25/20 14:04	5
Lead	93		0.17	0.017	mg/Kg	☼	08/24/20 14:16	08/25/20 14:04	5
Zinc	870		1.8	0.56	mg/Kg	☼	08/24/20 14:16	08/25/20 14:04	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	74.1		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	25.9		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: ST-11-SAND LAYER
Lab Sample ID: 580-96897-5

Date Collected: 08/18/20 14:00
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 75.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.5	0.94	ug/Kg	☼	08/31/20 10:17	09/02/20 07:01	1
PCB-1221	ND		2.5	0.53	ug/Kg	☼	08/31/20 10:17	09/02/20 07:01	1
PCB-1232	ND		2.5	0.62	ug/Kg	☼	08/31/20 10:17	09/02/20 07:01	1
PCB-1242	ND		2.5	0.45	ug/Kg	☼	08/31/20 10:17	09/02/20 07:01	1
PCB-1248	ND		2.5	0.37	ug/Kg	☼	08/31/20 10:17	09/02/20 07:01	1
PCB-1254	ND		2.5	0.47	ug/Kg	☼	08/31/20 10:17	09/02/20 07:01	1
PCB-1260	ND		2.5	0.94	ug/Kg	☼	08/31/20 10:17	09/02/20 07:01	1
Polychlorinated biphenyls, Total	ND		2.5	0.94	ug/Kg	☼	08/31/20 10:17	09/02/20 07:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*93*		*44 - 135*	*08/31/20 10:17*	*09/02/20 07:01*	*1*
Tetrachloro-m-xylene	*72*		*48 - 122*	*08/31/20 10:17*	*09/02/20 07:01*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	ND		26	0.22	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-2	**0.66**	**J q B**	26	0.19	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-3	**3.1**	**J B**	26	0.22	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-4	ND		26	7.1	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-5	ND		26	4.6	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-6	ND		26	4.3	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-7	ND		26	4.5	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-8	ND		26	4.2	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-9	ND		26	4.2	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-10	ND		26	5.7	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-11	ND		26	5.0	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-12/13	ND		53	5.3	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-14	ND		26	4.6	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-15	ND		26	4.1	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-16	ND		26	0.86	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-17	ND		26	0.81	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-18/30	**1.1**	**J q B**	53	0.59	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-19	ND		26	0.73	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-20/28	**4.8**	**J B**	79	0.50	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-21/33	**1.5**	**J B**	53	0.52	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-22	**0.98**	**J**	26	0.48	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-23	ND		26	0.50	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-24	ND		26	0.62	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-25	ND		26	0.44	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-26/29	ND		53	0.50	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-27	ND		26	0.57	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-31	**3.5**	**J B**	26	0.49	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-32	ND		26	0.56	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-34	ND		26	0.49	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-35	ND		26	0.53	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-36	ND		26	0.55	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-37	**2.7**	**J**	26	0.61	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-38	ND		26	0.57	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-39	ND		26	0.50	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-40/71	**1.2**	**J**	53	0.24	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-11-SAND LAYER
Lab Sample ID: 580-96897-5
Date Collected: 08/18/20 14:00
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 75.9

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	ND		26	0.37	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-42	**0.66**	**J q**	26	0.27	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-43	ND		26	0.26	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-44/47/65	**3.4**	**J B**	79	0.25	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-45	**0.33**	**J q**	26	0.31	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-46	ND		26	0.31	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-48	**0.43**	**J q**	26	0.28	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-49/69	**2.0**	**J B**	53	0.22	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-50/53	**0.53**	**J q**	53	0.28	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-51	ND		26	0.23	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-52	**3.0**	**J B**	26	0.25	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-54	ND		26	0.18	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-55	ND		26	0.21	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-56	**2.0**	**J**	26	0.24	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-57	ND		26	0.25	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-58	ND		26	0.21	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-59/62/75	ND		79	0.21	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-60	**0.91**	**J**	26	0.26	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-61/70/74/76	**6.7**	**J B**	110	0.23	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-63	ND		26	0.25	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-64	**1.6**	**J B**	26	0.20	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-66	**4.7**	**J B**	26	0.22	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-67	ND		26	0.20	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-68	ND		26	0.22	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-72	ND		26	0.24	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-73	ND		26	0.19	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-77	**0.84**	**J**	2.6	0.34	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-78	ND		26	0.25	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-79	ND		26	0.23	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-80	ND		26	0.21	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-81	ND		2.6	0.37	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-82	ND		26	0.43	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-83	ND		26	0.53	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-84	ND		26	0.46	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-85/116/117	ND		79	0.34	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-86/87/97/108/119/125	ND		160	0.35	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-88/91	ND		53	0.41	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-89	ND		26	0.44	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-90/101/113	**1.8**	**J q B**	79	0.36	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-92	ND		26	0.39	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-93/100	ND		53	0.40	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-107/124	ND		53	0.34	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-94	ND		26	0.43	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-95	**1.5**	**J q B**	26	0.40	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-96	ND		26	0.21	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-98/102	ND		53	0.38	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-99	ND		26	0.34	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-103	ND		26	0.36	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-104	ND		26	0.14	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-11-SAND LAYER
Lab Sample ID: 580-96897-5
Date Collected: 08/18/20 14:00
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 75.9

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**1.5**	**J**	5.3	0.36	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-106	ND		26	0.36	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-110/115	**2.8**	**J B**	53	0.30	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-109	ND		26	0.29	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-111	ND		26	0.30	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-112	ND		26	0.25	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-114	ND		2.6	0.38	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-118	**2.5**	**J B**	5.3	0.35	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-120	ND		26	0.27	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-121	ND		26	0.26	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-122	ND		26	0.37	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-123	ND		2.6	0.40	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-126	ND		2.6	0.42	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-127	ND		26	0.36	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-128/166	ND		53	0.094	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-129/138/163	**1.1**	**J B**	79	0.10	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-130	ND		26	0.12	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-131	ND		26	0.12	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-132	ND		26	0.12	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-133	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-134/143	ND		53	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-135/151	ND		53	0.10	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-136	ND		26	0.074	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-137	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-139/140	ND		53	0.099	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-141	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-142	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-144	ND		26	0.094	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-145	ND		26	0.079	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-146	ND		26	0.084	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-147/149	**0.72**	**J B**	53	0.098	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-148	ND		26	0.098	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-150	ND		26	0.073	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-152	ND		26	0.077	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-153/168	**0.78**	**J q B**	53	0.082	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-154	ND		26	0.093	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-155	ND		26	0.088	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-156/157	ND		5.3	0.12	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-158	ND		26	0.075	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-159	ND		26	0.086	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-160	ND		26	0.092	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-161	ND		26	0.087	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-162	ND		26	0.095	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-164	ND		26	0.090	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-165	ND		26	0.083	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-167	ND		2.6	0.095	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-169	ND		2.6	0.098	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-170	ND		26	0.13	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-171/173	ND		53	0.13	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1

Client Sample ID: ST-11-SAND LAYER
Lab Sample ID: 580-96897-5

Date Collected: 08/18/20 14:00
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 75.9

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	ND		26	0.13	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-174	**0.30**	**J q B**	26	0.12	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-175	ND		26	0.10	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-176	ND		26	0.085	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-177	ND		26	0.12	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-178	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-179	ND		26	0.075	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-180/193	**0.55**	**J q B**	53	0.10	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-181	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-182	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-183	**0.32**	**J B**	26	0.10	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-184	ND		26	0.078	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-185	ND		26	0.13	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-186	ND		26	0.070	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-187	ND		26	0.091	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-188	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-189	ND		2.6	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-190	ND		26	0.085	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-191	ND		26	0.090	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-192	ND		26	0.083	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-194	ND		26	0.12	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-195	ND		26	0.12	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-196	ND		26	0.10	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-197	ND		26	0.068	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-198/199	**0.21**	**J q**	53	0.096	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-200	ND		26	0.083	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-201	ND		26	0.081	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-202	ND		26	0.085	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-203	ND		26	0.086	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-204	ND		26	0.075	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-205	ND		26	0.098	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-206	ND		26	0.15	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-207	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-208	ND		26	0.11	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1
PCB-209	ND		26	0.15	pg/g	☼	08/25/20 07:18	08/31/20 16:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*55*		*5 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-3L	*57*		*5 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-4L	*53*		*5 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-15L	*61*		*5 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-19L	*58*		*5 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-37L	*73*		*5 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-54L	*76*		*5 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-77L	*70*		*10 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-81L	*68*		*10 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-104L	*80*		*10 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-105L	*68*		*10 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-114L	*67*		*10 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*
PCB-118L	*67*		*10 - 145*	*08/25/20 07:18*	*08/31/20 16:17*	*1*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-11-SAND LAYER
Lab Sample ID: 580-96897-5
Date Collected: 08/18/20 14:00
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 75.9

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	65		10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-126L	75		10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-155L	60		10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-156L/157L	86		10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-167L	84		10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-169L	95		10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-188L	63		10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-189L	101		10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-202L	73		10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-205L	81		10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-206L	67	q	10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-208L	57	q	10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-209L	51		10 - 145	08/25/20 07:18	08/31/20 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	66		5 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-111L	67		10 - 145	08/25/20 07:18	08/31/20 16:17	1
PCB-178L	68		10 - 145	08/25/20 07:18	08/31/20 16:17	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75.9		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	24.1		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: ST-05-SURFACE GRAB
Lab Sample ID: 580-96897-6

Date Collected: 08/18/20 14:25
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 73.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.6	0.98	ug/Kg	☼	08/31/20 10:17	09/02/20 07:19	1
PCB-1221	ND		2.6	0.55	ug/Kg	☼	08/31/20 10:17	09/02/20 07:19	1
PCB-1232	ND		2.6	0.65	ug/Kg	☼	08/31/20 10:17	09/02/20 07:19	1
PCB-1242	ND		2.6	0.46	ug/Kg	☼	08/31/20 10:17	09/02/20 07:19	1
PCB-1248	ND		2.6	0.38	ug/Kg	☼	08/31/20 10:17	09/02/20 07:19	1
PCB-1254	ND		2.6	0.49	ug/Kg	☼	08/31/20 10:17	09/02/20 07:19	1
PCB-1260	ND		2.6	0.98	ug/Kg	☼	08/31/20 10:17	09/02/20 07:19	1
Polychlorinated biphenyls, Total	ND		2.6	0.98	ug/Kg	☼	08/31/20 10:17	09/02/20 07:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*44 - 135*	*08/31/20 10:17*	*09/02/20 07:19*	*1*
Tetrachloro-m-xylene	*80*		*48 - 122*	*08/31/20 10:17*	*09/02/20 07:19*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**1.9**	**J B**	27	0.26	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-2	**3.7**	**J B**	27	0.24	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-3	**13**	**J B**	27	0.28	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-4	ND		27	8.6	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-5	ND		27	6.7	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-6	ND		27	6.2	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-7	ND		27	6.6	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-8	**29**		27	6.0	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-9	ND		27	6.2	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-10	ND		27	6.9	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-11	**8.9**	**J B q**	27	7.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-12/13	**8.6**	**J q**	54	7.7	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-14	ND		27	6.8	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-15	**210**		27	6.0	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-16	**11**	**J**	27	1.0	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-17	**16**	**J**	27	0.98	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-18/30	**30**	**J B**	54	0.72	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-19	**3.0**	**J**	27	0.98	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-20/28	**310**	**B**	81	3.8	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-21/33	**67**	**B**	54	4.0	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-22	**66**		27	3.6	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-23	ND		27	3.7	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-24	**0.87**	**J**	27	0.75	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-25	**14**	**J**	27	3.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-26/29	**31**	**J**	54	3.8	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-27	**3.7**	**J**	27	0.69	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-31	**230**	**B**	27	3.7	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-32	**14**	**J**	27	0.68	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-34	ND		27	3.7	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-35	**8.0**	**J**	27	4.0	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-36	ND		27	4.1	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-37	**310**		27	4.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-38	ND		27	4.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-39	ND		27	3.8	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-40/71	**49**	**J**	54	1.4	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-05-SURFACE GRAB
Lab Sample ID: 580-96897-6
Date Collected: 08/18/20 14:25
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 73.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	8.3	J	27	2.1	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-42	32		27	1.5	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-43	3.7	J	27	1.5	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-44/47/65	100	B	81	1.4	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-45	12	J	27	1.8	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-46	4.3	J	27	1.8	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-48	23	J	27	1.6	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-49/69	77	B	54	1.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-50/53	13	J	54	1.6	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-51	3.1	J	27	1.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-52	110	B	27	1.4	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-54	ND		27	0.22	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-55	ND		27	1.1	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-56	120		27	1.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-57	ND		27	1.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-58	ND		27	1.1	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-59/62/75	16	J	81	1.2	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-60	78		27	1.4	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-61/70/74/76	440	B	110	1.2	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-63	9.3	J	27	1.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-64	89	B	27	1.2	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-66	400	B	27	1.2	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-67	3.3	J	27	1.1	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-68	1.3	J q	27	1.2	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-72	2.1	J	27	1.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-73	ND		27	1.1	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-77	110		2.7	1.7	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-78	ND		27	1.4	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-79	ND		27	1.2	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-80	ND		27	1.1	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-81	3.6	q	2.7	1.8	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-82	14	J	27	1.7	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-83	ND		27	2.1	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-84	24	J	27	1.8	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-85/116/117	33	J	81	1.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-86/87/97/108/119/125	60	J	160	1.4	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-88/91	16	J	54	1.6	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-89	ND		27	1.7	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-90/101/113	68	J B	81	1.4	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-92	13	J	27	1.5	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-93/100	ND		54	1.6	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-107/124	4.5	J q	54	1.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-94	ND		27	1.7	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-95	33	B	27	1.6	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-96	1.3	J	27	0.24	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-98/102	ND		54	1.5	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-99	51		27	1.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-103	ND		27	1.4	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-104	ND		27	0.17	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1

Client Sample ID: ST-05-SURFACE GRAB
Lab Sample ID: 580-96897-6
Date Collected: 08/18/20 14:25
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 73.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**74**		5.4	1.4	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-106	ND		27	1.4	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-110/115	**100**	**B**	54	1.2	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-109	**10**	**J**	27	1.1	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-111	ND		27	1.2	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-112	ND		27	0.97	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-114	**5.7**		2.7	1.5	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-118	**130**	**B**	5.4	1.3	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-120	ND		27	1.0	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-121	ND		27	1.0	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-122	ND		27	1.5	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-123	**4.8**		2.7	1.6	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-126	ND		2.7	1.6	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-127	ND		27	1.4	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-128/166	**8.0**	**J**	54	0.30	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-129/138/163	**41**	**J B**	81	0.32	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-130	**2.8**	**J**	27	0.39	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-131	ND		27	0.37	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-132	**10**	**J**	27	0.36	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-133	ND		27	0.35	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-134/143	**1.4**	**J**	54	0.34	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-135/151	**7.8**	**J B**	54	0.32	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-136	**2.7**	**J**	27	0.23	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-137	**2.7**	**J**	27	0.34	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-139/140	**0.44**	**J q**	54	0.31	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-141	**5.0**	**J**	27	0.34	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-142	ND		27	0.35	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-144	**0.96**	**J**	27	0.30	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-145	ND		27	0.25	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-146	**4.2**	**J**	27	0.26	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-147/149	**18**	**J B**	54	0.31	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-148	ND		27	0.31	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-150	ND		27	0.23	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-152	ND		27	0.24	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-153/168	**25**	**J B**	54	0.26	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-154	ND		27	0.29	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-155	ND		27	0.30	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-156/157	**11**		5.4	0.25	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-158	**4.1**	**J**	27	0.24	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-159	ND		27	0.18	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-160	ND		27	0.29	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-161	ND		27	0.27	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-162	ND		27	0.20	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-164	**2.4**	**J q**	27	0.28	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-165	ND		27	0.26	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-167	**3.0**		2.7	0.20	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-169	ND		2.7	0.21	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-170	**10**	**J**	27	0.26	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-171/173	**2.6**	**J**	54	0.25	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1

Client Sample ID: ST-05-SURFACE GRAB
Lab Sample ID: 580-96897-6

Date Collected: 08/18/20 14:25
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 73.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	**1.5**	**J**	27	0.26	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-174	**7.5**	**J B**	27	0.24	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-175	ND		27	0.11	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-176	**0.54**	**J q**	27	0.093	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-177	**4.9**	**J**	27	0.23	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-178	**1.3**	**J q**	27	0.12	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-179	**2.6**	**J**	27	0.083	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-180/193	**18**	**J B**	54	0.20	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-181	ND		27	0.23	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-182	ND		27	0.12	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-183	**3.4**	**J B q**	27	0.20	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-184	ND		27	0.086	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-185	ND		27	0.25	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-186	ND		27	0.077	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-187	**8.1**	**J**	27	0.099	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-188	ND		27	0.12	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-189	**0.58**	**J**	2.7	0.17	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-190	**2.1**	**J**	27	0.17	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-191	**0.34**	**J q**	27	0.18	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-192	ND		27	0.16	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-194	**5.1**	**J**	27	0.18	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-195	**1.9**	**J**	27	0.18	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-196	**2.1**	**J q**	27	0.083	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-197	ND		27	0.056	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-198/199	**6.1**	**J**	54	0.078	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-200	**0.59**	**J q**	27	0.068	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-201	**0.59**	**J q**	27	0.066	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-202	**1.1**	**J**	27	0.069	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-203	**4.1**	**J**	27	0.070	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-204	ND		27	0.061	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-205	**0.36**	**J**	27	0.15	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-206	**3.3**	**J q**	27	0.23	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-207	**0.51**	**J**	27	0.15	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-208	**1.2**	**J**	27	0.15	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1
PCB-209	**1.5**	**J q**	27	0.19	pg/g	☼	08/25/20 07:18	08/31/20 17:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*58*		*5 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-3L	*58*		*5 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-4L	*56*		*5 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-15L	*62*		*5 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-19L	*55*		*5 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-37L	*81*		*5 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-54L	*71*		*5 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-77L	*71*		*10 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-81L	*70*		*10 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-104L	*86*		*10 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-105L	*75*		*10 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-114L	*71*		*10 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*
PCB-118L	*70*		*10 - 145*	*08/25/20 07:18*	*08/31/20 17:32*	*1*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-05-SURFACE GRAB
Lab Sample ID: 580-96897-6
Date Collected: 08/18/20 14:25
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 73.1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	69		10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-126L	82		10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-155L	65		10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-156L/157L	99		10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-167L	91		10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-169L	103		10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-188L	67		10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-189L	103		10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-202L	76		10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-205L	83		10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-206L	65	q	10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-208L	62	q	10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-209L	60		10 - 145	08/25/20 07:18	08/31/20 17:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	61		5 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-111L	70		10 - 145	08/25/20 07:18	08/31/20 17:32	1
PCB-178L	72		10 - 145	08/25/20 07:18	08/31/20 17:32	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4		0.21	0.043	mg/Kg	☼	08/24/20 14:16	08/25/20 16:05	5
Cadmium	1.3		0.34	0.033	mg/Kg	☼	08/24/20 14:16	08/25/20 16:05	5
Copper	7.9		0.43	0.094	mg/Kg	☼	08/24/20 14:16	08/25/20 16:05	5
Lead	85		0.21	0.020	mg/Kg	☼	08/24/20 14:16	08/25/20 16:05	5
Zinc	890		2.2	0.69	mg/Kg	☼	08/24/20 14:16	08/25/20 16:05	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	73.1		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	26.9		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: ST-12-COAL LAYER
Lab Sample ID: 580-96897-7

Date Collected: 08/18/20 15:05
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 61.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		3.2	1.2	ug/Kg	☼	08/31/20 10:17	09/02/20 07:37	1
PCB-1221	ND		3.2	0.67	ug/Kg	☼	08/31/20 10:17	09/02/20 07:37	1
PCB-1232	ND		3.2	0.78	ug/Kg	☼	08/31/20 10:17	09/02/20 07:37	1
PCB-1242	ND		3.2	0.56	ug/Kg	☼	08/31/20 10:17	09/02/20 07:37	1
PCB-1248	ND		3.2	0.46	ug/Kg	☼	08/31/20 10:17	09/02/20 07:37	1
PCB-1254	ND		3.2	0.59	ug/Kg	☼	08/31/20 10:17	09/02/20 07:37	1
PCB-1260	ND		3.2	1.2	ug/Kg	☼	08/31/20 10:17	09/02/20 07:37	1
Polychlorinated biphenyls, Total	ND		3.2	1.2	ug/Kg	☼	08/31/20 10:17	09/02/20 07:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*44 - 135*	*08/31/20 10:17*	*09/02/20 07:37*	*1*
Tetrachloro-m-xylene	*43*	*X*	*48 - 122*	*08/31/20 10:17*	*09/02/20 07:37*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**7.4**	**J B**	160	1.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-2	**5.6**	**J B**	160	1.5	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-3	**8.5**	**J B**	160	1.8	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-4	**35**	**J**	160	12	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-5	ND		160	15	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-6	**39**	**J q**	160	14	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-7	ND		160	15	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-8	**260**		160	14	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-9	ND		160	14	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-10	ND		160	10	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-11	ND		160	17	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-12/13	ND		310	18	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-14	ND		160	16	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-15	**140**	**J**	160	14	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-16	**170**		160	3.4	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-17	**230**		160	3.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-18/30	**370**	**B**	310	2.4	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-19	**25**	**J**	160	3.0	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-20/28	**1600**	**B**	470	12	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-21/33	**720**	**B**	310	12	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-22	**470**		160	11	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-23	ND		160	12	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-24	ND		160	2.5	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-25	**98**	**J**	160	10	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-26/29	**220**	**J**	310	12	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-27	**32**	**J**	160	2.3	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-31	**1300**	**B**	160	11	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-32	**160**		160	2.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-34	**14**	**J**	160	11	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-35	ND		160	12	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-36	ND		160	13	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-37	**420**		160	14	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-38	ND		160	13	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-39	ND		160	12	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-40/71	**390**		310	8.5	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-12-COAL LAYER
Lab Sample ID: 580-96897-7
Date Collected: 08/18/20 15:05
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 61.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	65	J q	160	13	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-42	250		160	9.4	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-43	15	J	160	9.0	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-44/47/65	780	B	470	8.9	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-45	89	J	160	11	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-46	30	J	160	11	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-48	210		160	9.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-49/69	500	B	310	7.8	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-50/53	83	J	310	9.9	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-51	24	J	160	8.3	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-52	720	B	160	8.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-54	ND		160	0.68	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-55	ND		160	4.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-56	750		160	5.3	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-57	ND		160	5.6	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-58	ND		160	4.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-59/62/75	80	J	470	7.5	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-60	390		160	5.8	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-61/70/74/76	2100	B	620	5.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-63	78	J	160	5.6	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-64	470	B	160	7.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-66	1400	B	160	5.0	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-67	36	J	160	4.4	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-68	ND		160	4.9	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-72	11	J	160	5.5	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-73	ND		160	6.8	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-77	150		16	7.6	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-78	ND		160	5.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-79	ND		160	5.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-80	ND		160	4.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-81	ND		16	10	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-82	52	J	160	4.6	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-83	26	J	160	5.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-84	67	J	160	5.0	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-85/116/117	110	J	470	3.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-86/87/97/108/119/125	220	J	940	3.8	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-88/91	41	J	310	4.4	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-89	5.3	J q	160	4.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-90/101/113	230	J B	470	3.9	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-92	39	J	160	4.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-93/100	ND		310	4.3	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-107/124	11	J q	310	3.6	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-94	ND		160	4.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-95	150	J B	160	4.3	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-96	1.9	J q	160	0.42	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-98/102	14	J	310	4.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-99	140	J	160	3.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-103	ND		160	3.9	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-104	ND		160	0.38	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5

Client Sample ID: ST-12-COAL LAYER
Lab Sample ID: 580-96897-7

Date Collected: 08/18/20 15:05
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 61.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**170**		31	3.8	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-106	ND		160	3.9	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-110/115	**290**	**J B**	310	3.3	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-109	**22**	**J**	160	3.1	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-111	ND		160	3.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-112	ND		160	2.7	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-114	**12**	**J**	16	3.8	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-118	**290**	**B**	31	3.4	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-120	ND		160	2.9	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-121	ND		160	2.8	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-122	**5.8**	**J q**	160	4.0	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-123	**9.3**	**J q**	16	3.9	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-126	ND		16	4.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-127	ND		160	3.9	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-128/166	**14**	**J**	310	1.1	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-129/138/163	**84**	**J B**	470	1.1	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-130	**4.6**	**J q**	160	1.4	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-131	ND		160	1.3	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-132	**27**	**J**	160	1.3	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-133	ND		160	1.3	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-134/143	ND		310	1.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-135/151	**20**	**J B**	310	1.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-136	**6.9**	**J**	160	0.85	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-137	**3.9**	**J q**	160	1.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-139/140	ND		310	1.1	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-141	**15**	**J**	160	1.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-142	ND		160	1.3	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-144	ND		160	1.1	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-145	ND		160	0.90	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-146	**9.6**	**J**	160	0.96	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-147/149	**55**	**J B**	310	1.1	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-148	ND		160	1.1	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-150	ND		160	0.83	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-152	ND		160	0.88	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-153/168	**58**	**J B**	310	0.94	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-154	ND		160	1.1	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-155	ND		160	0.96	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-156/157	**16**	**J**	31	1.1	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-158	**8.1**	**J**	160	0.85	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-159	ND		160	0.71	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-160	ND		160	1.0	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-161	ND		160	0.99	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-162	ND		160	0.79	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-164	**6.1**	**J**	160	1.0	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-165	ND		160	0.95	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-167	**5.0**	**J**	16	0.77	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-169	ND		16	0.81	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-170	**17**	**J**	160	0.77	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-171/173	**3.5**	**J q**	310	0.73	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5

Client Sample ID: ST-12-COAL LAYER
Lab Sample ID: 580-96897-7

Date Collected: 08/18/20 15:05
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 61.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	**3.2**	**J**	160	0.77	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-174	**17**	**J B**	160	0.69	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-175	ND		160	0.49	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-176	**1.7**	**J**	160	0.40	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-177	**9.3**	**J**	160	0.68	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-178	**3.5**	**J**	160	0.52	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-179	**6.9**	**J**	160	0.35	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-180/193	**36**	**J B**	310	0.58	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-181	ND		160	0.67	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-182	ND		160	0.49	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-183	**8.8**	**J B**	160	0.58	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-184	ND		160	0.37	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-185	ND		160	0.74	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-186	ND		160	0.33	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-187	**19**	**J**	160	0.42	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-188	ND		160	0.42	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-189	ND		16	1.4	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-190	**3.5**	**J**	160	0.49	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-191	ND		160	0.52	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-192	ND		160	0.48	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-194	**7.7**	**J q**	160	0.65	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-195	**3.0**	**J q**	160	0.65	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-196	**6.4**	**J**	160	0.52	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-197	ND		160	0.34	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-198/199	**9.0**	**J q**	310	0.49	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-200	**2.1**	**J**	160	0.42	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-201	**1.4**	**J q**	160	0.41	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-202	**1.9**	**J q**	160	0.38	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-203	**7.9**	**J**	160	0.44	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-204	ND		160	0.38	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-205	ND		160	0.62	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-206	**6.2**	**J**	160	0.94	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-207	ND		160	0.64	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-208	**1.8**	**J q**	160	0.63	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5
PCB-209	ND		160	1.2	pg/g	☼	08/25/20 07:18	09/03/20 12:13	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*57*		*5 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-3L	*60*		*5 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-4L	*65*		*5 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-15L	*79*		*5 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-19L	*71*		*5 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-37L	*86*		*5 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-54L	*95*		*5 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-77L	*74*		*10 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-81L	*63*		*10 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-104L	*93*		*10 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-105L	*87*		*10 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-114L	*89*		*10 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*
PCB-118L	*87*		*10 - 145*	*08/25/20 07:18*	*09/03/20 12:13*	*5*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-12-COAL LAYER
Lab Sample ID: 580-96897-7
Date Collected: 08/18/20 15:05
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 61.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	86		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-126L	94		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-155L	77		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-156L/157L	100		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-167L	99		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-169L	101		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-188L	96		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-189L	110		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-202L	93		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-205L	82		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-206L	84		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-208L	75		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-209L	54		10 - 145	08/25/20 07:18	09/03/20 12:13	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	73		5 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-111L	90		10 - 145	08/25/20 07:18	09/03/20 12:13	5
PCB-178L	88		10 - 145	08/25/20 07:18	09/03/20 12:13	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	61.3		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	38.7		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: DUPLICATE-1
Lab Sample ID: 580-96897-8

Date Collected: 08/19/20 07:30
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 69.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.8	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 07:55	1
PCB-1221	ND		2.8	0.58	ug/Kg	☼	08/31/20 10:17	09/02/20 07:55	1
PCB-1232	ND		2.8	0.68	ug/Kg	☼	08/31/20 10:17	09/02/20 07:55	1
PCB-1242	ND		2.8	0.48	ug/Kg	☼	08/31/20 10:17	09/02/20 07:55	1
PCB-1248	ND		2.8	0.40	ug/Kg	☼	08/31/20 10:17	09/02/20 07:55	1
PCB-1254	ND		2.8	0.51	ug/Kg	☼	08/31/20 10:17	09/02/20 07:55	1
PCB-1260	ND		2.8	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 07:55	1
Polychlorinated biphenyls, Total	ND		2.8	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*44 - 135*	*08/31/20 10:17*	*09/02/20 07:55*	*1*
Tetrachloro-m-xylene	*62*		*48 - 122*	*08/31/20 10:17*	*09/02/20 07:55*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**2.4**	**J B q**	27	0.24	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-2	**4.8**	**J B**	27	0.21	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-3	**19**	**J B**	27	0.24	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-4	ND		27	4.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-5	ND		27	2.3	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-6	**8.3**	**J**	27	2.1	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-7	ND		27	2.2	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-8	**49**		27	2.0	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-9	ND		27	2.1	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-10	ND		27	3.5	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-11	**19**	**J B**	27	2.5	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-12/13	**19**	**J**	55	2.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-14	ND		27	2.3	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-15	**270**		27	2.0	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-16	**29**		27	0.90	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-17	**46**		27	0.85	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-18/30	**88**	**B**	55	0.62	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-19	**8.5**	**J**	27	0.85	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-20/28	**770**	**B**	82	7.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-21/33	**150**	**B**	55	7.9	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-22	**160**		27	7.3	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-23	ND		27	7.5	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-24	**2.0**	**J**	27	0.65	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-25	**29**		27	6.7	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-26/29	**75**		55	7.7	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-27	**9.1**	**J**	27	0.60	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-31	**630**	**B**	27	7.4	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-32	**42**		27	0.59	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-34	ND		27	7.5	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-35	ND		27	8.1	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-36	ND		27	8.3	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-37	**430**		27	8.5	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-38	ND		27	8.7	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-39	ND		27	7.7	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-40/71	**99**		55	2.7	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1

Client Sample ID: DUPLICATE-1
Lab Sample ID: 580-96897-8
Date Collected: 08/19/20 07:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	**27**		27	4.2	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-42	**66**		27	3.0	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-43	**11**	**J**	27	2.9	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-44/47/65	**220**	**B**	82	2.9	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-45	**29**		27	3.5	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-46	**9.5**	**J**	27	3.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-48	**52**		27	3.1	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-49/69	**190**	**B**	55	2.5	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-50/53	**30**	**J**	55	3.2	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-51	**9.6**	**J**	27	2.7	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-52	**260**	**B**	27	2.8	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-54	**0.59**	**J q**	27	0.21	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-55	ND		27	2.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-56	**280**		27	2.9	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-57	ND		27	3.1	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-58	ND		27	2.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-59/62/75	**35**	**J**	82	2.4	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-60	**180**		27	3.2	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-61/70/74/76	**970**	**B**	110	2.8	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-63	**26**	**J**	27	3.1	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-64	**180**	**B**	27	2.3	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-66	**770**	**B**	27	2.7	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-67	**8.7**	**J**	27	2.4	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-68	ND		27	2.7	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-72	ND		27	3.0	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-73	ND		27	2.2	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-77	**170**	**G**	3.4	3.4	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-78	ND		27	3.2	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-79	ND		27	2.9	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-80	ND		27	2.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-81	**6.9**	**G**	3.7	3.7	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-82	**40**		27	3.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-83	ND		27	4.4	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-84	**47**		27	3.8	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-85/116/117	**86**		82	2.8	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-86/87/97/108/119/125	**140**	**J**	160	2.9	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-88/91	**42**	**J**	55	3.4	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-89	ND		27	3.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-90/101/113	**150**	**B**	82	3.0	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-92	**29**		27	3.2	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-93/100	ND		55	3.3	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-107/124	**16**	**J**	55	2.8	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-94	ND		27	3.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-95	**73**	**B**	27	3.3	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-96	**2.4**	**J**	27	0.11	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-98/102	ND		55	3.2	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-99	**110**		27	2.8	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-103	ND		27	3.0	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-104	ND		27	0.13	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1

Client Sample ID: DUPLICATE-1
Lab Sample ID: 580-96897-8
Date Collected: 08/19/20 07:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**190**		5.5	2.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-106	ND		27	3.0	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-110/115	**250**	**B**	55	2.5	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-109	**27**		27	2.4	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-111	ND		27	2.5	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-112	ND		27	2.1	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-114	**15**	**G**	2.9	2.9	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-118	**280**	**B**	5.5	2.6	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-120	ND		27	2.2	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-121	ND		27	2.2	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-122	**9.3**	**J**	27	3.1	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-123	**12**	**G**	2.9	2.9	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-126	ND	G	3.0	3.0	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-127	ND		27	3.0	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-128/166	**21**	**J**	55	0.54	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-129/138/163	**91**	**B**	82	0.58	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-130	**7.3**	**J**	27	0.71	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-131	ND		27	0.67	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-132	**23**	**J**	27	0.66	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-133	ND		27	0.63	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-134/143	**3.0**	**J q**	55	0.62	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-135/151	**18**	**J B**	55	0.58	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-136	**4.8**	**J**	27	0.42	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-137	**6.7**	**J**	27	0.62	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-139/140	**2.1**	**J**	55	0.56	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-141	**12**	**J**	27	0.62	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-142	ND		27	0.64	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-144	**2.4**	**J**	27	0.54	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-145	ND		27	0.45	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-146	**9.3**	**J**	27	0.48	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-147/149	**40**	**J B**	55	0.56	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-148	ND		27	0.56	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-150	ND		27	0.41	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-152	ND		27	0.44	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-153/168	**54**	**J B**	55	0.47	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-154	ND		27	0.53	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-155	ND		27	0.65	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-156/157	**30**		5.5	1.1	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-158	**9.4**	**J**	27	0.43	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-159	ND		27	0.75	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-160	ND		27	0.52	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-161	ND		27	0.50	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-162	ND		27	0.84	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-164	**6.2**	**J**	27	0.51	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-165	ND		27	0.48	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-167	**8.0**		2.7	0.76	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-169	ND		2.7	0.78	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-170	**33**		27	1.0	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-171/173	**7.4**	**J**	55	0.98	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1

Client Sample ID: DUPLICATE-1
Lab Sample ID: 580-96897-8
Date Collected: 08/19/20 07:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	**4.9**	**J**	27	1.0	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-174	**23**	**J B**	27	0.93	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-175	ND		27	0.43	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-176	**1.9**	**J**	27	0.36	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-177	**15**	**J**	27	0.91	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-178	**4.1**	**J**	27	0.46	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-179	**7.0**	**J**	27	0.31	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-180/193	**61**	**B**	55	0.78	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-181	ND		27	0.89	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-182	ND		27	0.44	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-183	**12**	**J B**	27	0.77	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-184	ND		27	0.33	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-185	**5.0**	**J**	27	0.99	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-186	ND		27	0.29	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-187	**23**	**J**	27	0.38	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-188	ND		27	0.40	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-189	**1.7**	**J**	2.7	0.57	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-190	**6.2**	**J**	27	0.66	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-191	ND		27	0.70	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-192	ND		27	0.64	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-194	**17**	**J**	27	0.25	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-195	**4.1**	**J**	27	0.25	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-196	**4.2**	**J**	27	0.16	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-197	ND		27	0.10	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-198/199	**14**	**J**	55	0.15	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-200	**1.5**	**J**	27	0.13	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-201	**1.6**	**J**	27	0.12	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-202	**3.1**	**J**	27	0.13	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-203	**4.8**	**J**	27	0.13	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-204	ND		27	0.11	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-205	**1.4**	**J**	27	0.21	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-206	**7.8**	**J**	27	0.34	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-207	**0.68**	**J**	27	0.26	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-208	**2.1**	**J**	27	0.28	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1
PCB-209	**2.5**	**J q**	27	0.14	pg/g	☼	08/25/20 07:18	08/31/20 22:07	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*55*		*5 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-3L	*56*		*5 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-4L	*51*		*5 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-15L	*70*		*5 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-19L	*53*		*5 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-37L	*85*		*5 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-54L	*59*		*5 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-77L	*103*		*10 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-81L	*99*		*10 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-104L	*68*		*10 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-105L	*96*		*10 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-114L	*92*		*10 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*
PCB-118L	*92*		*10 - 145*	*08/25/20 07:18*	*08/31/20 22:07*	*1*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: DUPLICATE-1
Lab Sample ID: 580-96897-8
Date Collected: 08/19/20 07:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	91		10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-126L	105		10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-155L	61		10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-156L/157L	109		10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-167L	118		10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-169L	119		10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-188L	77		10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-189L	92		10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-202L	86		10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-205L	98		10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-206L	59	q	10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-208L	45	q	10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-209L	47		10 - 145	08/25/20 07:18	08/31/20 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	76		5 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-111L	88		10 - 145	08/25/20 07:18	08/31/20 22:07	1
PCB-178L	82		10 - 145	08/25/20 07:18	08/31/20 22:07	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		0.24	0.049	mg/Kg	☼	08/24/20 14:16	08/25/20 16:09	5
Cadmium	2.8		0.39	0.037	mg/Kg	☼	08/24/20 14:16	08/25/20 16:09	5
Copper	8.2		0.49	0.11	mg/Kg	☼	08/24/20 14:16	08/25/20 16:09	5
Lead	86		0.24	0.023	mg/Kg	☼	08/24/20 14:16	08/25/20 16:09	5
Zinc	860		2.5	0.78	mg/Kg	☼	08/24/20 14:16	08/25/20 16:09	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	69.6		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	30.4		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: ST-10-SURFACE GRAB
Lab Sample ID: 580-96897-9

Date Collected: 08/19/20 08:45
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 28.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		7.0	2.6	ug/Kg	☼	08/31/20 10:17	09/02/20 08:12	1
PCB-1221	ND		7.0	1.5	ug/Kg	☼	08/31/20 10:17	09/02/20 08:12	1
PCB-1232	ND		7.0	1.7	ug/Kg	☼	08/31/20 10:17	09/02/20 08:12	1
PCB-1242	ND		7.0	1.2	ug/Kg	☼	08/31/20 10:17	09/02/20 08:12	1
PCB-1248	ND		7.0	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 08:12	1
PCB-1254	ND		7.0	1.3	ug/Kg	☼	08/31/20 10:17	09/02/20 08:12	1
PCB-1260	ND		7.0	2.6	ug/Kg	☼	08/31/20 10:17	09/02/20 08:12	1
Polychlorinated biphenyls, Total	ND		7.0	2.6	ug/Kg	☼	08/31/20 10:17	09/02/20 08:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*53*		*44 - 135*	*08/31/20 10:17*	*09/02/20 08:12*	*1*
Tetrachloro-m-xylene	*47*	*X*	*48 - 122*	*08/31/20 10:17*	*09/02/20 08:12*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**83**	**J B**	370	3.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-2	**40**	**J B**	370	2.9	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-3	**89**	**J B**	370	3.4	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-4	**410**		370	63	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-5	**110**	**J**	370	36	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-6	**430**		370	33	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-7	**79**	**J**	370	36	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-8	**2400**		370	33	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-9	**110**	**J**	370	33	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-10	ND		370	55	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-11	**330**	**J B**	370	40	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-12/13	**320**	**J**	730	42	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-14	ND		370	37	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-15	**2400**		370	34	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-16	**1700**		370	13	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-17	**2400**		370	13	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-18/30	**4000**	**B**	730	9.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-19	**370**		370	13	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-20/28	**21000**	**B**	1100	140	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-21/33	**6600**	**B**	730	150	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-22	**4800**		370	140	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-23	ND		370	140	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-24	**84**	**J**	370	9.6	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-25	**1100**		370	130	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-26/29	**2400**		730	140	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-27	**450**		370	8.8	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-31	**16000**	**B**	370	140	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-32	**1700**		370	8.7	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-34	**150**	**J**	370	140	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-35	**300**	**J**	370	150	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-36	ND		370	160	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-37	**5900**		370	160	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-38	ND		370	160	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-39	ND		370	140	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-40/71	**5100**		730	150	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5

Client Sample ID: ST-10-SURFACE GRAB
Lab Sample ID: 580-96897-9
Date Collected: 08/19/20 08:45
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 28.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	850		370	240	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-42	3500		370	170	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-43	550		370	160	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-44/47/65	12000	B	1100	160	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-45	1200		370	200	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-46	480		370	200	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-48	2100		370	180	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-49/69	7700	B	730	140	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-50/53	1400		730	180	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-51	410		370	150	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-52	11000	B	370	160	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-54	18	J	370	1.6	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-55	ND		370	68	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-56	8600		370	76	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-57	ND		370	80	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-58	ND		370	67	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-59/62/75	1400		1100	140	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-60	3300		370	83	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-61/70/74/76	29000	B	1500	74	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-63	820		370	80	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-64	6500	B	370	130	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-66	20000	B	370	71	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-67	480		370	64	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-68	120	J	370	70	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-72	220	J	370	78	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-73	ND		370	120	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-77	2600	G	110	110	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-78	ND		370	82	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-79	110	J	370	74	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-80	ND		370	68	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-81	ND	G	110	110	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-82	1300		370	87	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-83	520		370	110	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-84	1700		370	94	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-85/116/117	1900		1100	69	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-86/87/97/108/119/125	4500		2200	71	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-88/91	1400		730	83	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-89	210	J	370	89	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-90/101/113	4900	B	1100	74	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-92	990		370	79	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-93/100	110	J	730	82	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-107/124	230	J q	730	69	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-94	ND		370	88	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-95	3400	B	370	81	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-96	100	J	370	1.3	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-98/102	390	J	730	79	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-99	3300		370	70	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-103	ND		370	73	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-104	3.9	J q	370	1.1	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5

Client Sample ID: ST-10-SURFACE GRAB
Lab Sample ID: 580-96897-9

Date Collected: 08/19/20 08:45
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 28.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**3000**		73	71	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-106	ND		370	74	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-110/115	**6900**	**B**	730	62	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-109	**600**		370	59	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-111	ND		370	62	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-112	ND		370	51	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-114	**220**	**G**	73	73	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-118	**6300**	**B**	73	67	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-120	ND		370	55	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-121	ND		370	54	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-122	**170**	**J**	370	76	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-123	**200**	**G**	75	75	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-126	ND	G	79	79	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-127	ND		370	74	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-128/166	**410**	**J**	730	7.0	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-129/138/163	**1900**	**B**	1100	7.5	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-130	**190**	**J**	370	9.3	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-131	**28**	**J**	370	8.7	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-132	**660**		370	8.6	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-133	**31**	**J**	370	8.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-134/143	**100**	**J**	730	8.1	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-135/151	**540**	**J B**	730	7.6	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-136	**160**	**J**	370	5.6	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-137	**150**	**J**	370	8.1	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-139/140	**45**	**J**	730	7.4	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-141	**300**	**J**	370	8.1	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-142	ND		370	8.3	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-144	**65**	**J**	370	7.1	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-145	ND		370	5.9	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-146	**250**	**J**	370	6.3	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-147/149	**1100**	**B**	730	7.3	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-148	ND		370	7.4	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-150	ND		370	5.4	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-152	ND		370	5.8	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-153/168	**1300**	**B**	730	6.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-154	**22**	**J**	370	7.0	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-155	ND		370	6.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-156/157	**460**		73	8.9	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-158	**210**	**J**	370	5.6	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-159	ND		370	5.9	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-160	ND		370	6.9	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-161	ND		370	6.5	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-162	**13**	**J**	370	6.5	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-164	**150**	**J**	370	6.7	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-165	ND		370	6.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-167	**160**		37	6.5	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-169	ND		37	6.7	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-170	**430**		370	7.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-171/173	**120**	**J**	730	6.8	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5

Client Sample ID: ST-10-SURFACE GRAB
Lab Sample ID: 580-96897-9
Date Collected: 08/19/20 08:45
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 28.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	78	J	370	7.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-174	380	B	370	6.5	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-175	14	J	370	1.8	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-176	44	J	370	1.4	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-177	240	J	370	6.3	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-178	83	J	370	1.9	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-179	150	J	370	1.3	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-180/193	820	B	730	5.4	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-181	ND		370	6.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-182	ND		370	1.8	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-183	200	J B	370	5.4	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-184	ND		370	1.3	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-185	65	J	370	6.9	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-186	ND		370	1.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-187	450		370	1.5	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-188	4.9	J	370	1.6	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-189	26	J	37	2.9	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-190	90	J	370	4.6	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-191	15	J	370	4.9	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-192	ND		370	4.5	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-194	230	J	370	2.7	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-195	85	J	370	2.7	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-196	120	J	370	1.6	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-197	6.8	J	370	1.1	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-198/199	270	J	730	1.5	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-200	32	J	370	1.3	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-201	34	J	370	1.3	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-202	56	J	370	1.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-203	160	J	370	1.4	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-204	ND		370	1.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-205	17	J	370	2.4	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-206	110	J	370	2.3	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-207	8.8	J	370	1.5	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-208	34	J	370	1.5	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5
PCB-209	52	J	370	2.2	pg/g	☼	08/25/20 07:18	09/03/20 13:28	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*54*		*5 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-3L	*55*		*5 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-4L	*61*		*5 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-15L	*69*		*5 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-19L	*59*	*q*	*5 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-37L	*80*		*5 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-54L	*85*		*5 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-77L	*86*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-81L	*84*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-104L	*87*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-105L	*92*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-114L	*92*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-118L	*88*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-10-SURFACE GRAB
Lab Sample ID: 580-96897-9

Date Collected: 08/19/20 08:45
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 28.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-123L	*90*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-126L	*101*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-155L	*73*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-156L/157L	*102*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-167L	*101*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-169L	*107*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-188L	*84*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-189L	*106*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-202L	*93*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-205L	*82*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-206L	*88*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-208L	*84*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-209L	*68*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*63*		*5 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-111L	*93*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*
PCB-178L	*85*		*10 - 145*	*08/25/20 07:18*	*09/03/20 13:28*	*5*

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**21**		0.55	0.11	mg/Kg	☼	08/24/20 14:16	08/25/20 16:13	5
Cadmium	**29**		0.89	0.085	mg/Kg	☼	08/24/20 14:16	08/25/20 16:13	5
Copper	**34**		1.1	0.24	mg/Kg	☼	08/24/20 14:16	08/25/20 16:13	5
Lead	**480**		0.55	0.053	mg/Kg	☼	08/24/20 14:16	08/25/20 16:13	5
Zinc	**3000**		5.6	1.8	mg/Kg	☼	08/24/20 14:16	08/25/20 16:13	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	**28.2**		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	**71.8**		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: ST-15-COAL LAYER
Lab Sample ID: 580-96897-10

Date Collected: 08/19/20 09:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 62.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		3.2	1.2	ug/Kg	☼	08/31/20 10:17	09/02/20 08:30	1
PCB-1221	ND		3.2	0.67	ug/Kg	☼	08/31/20 10:17	09/02/20 08:30	1
PCB-1232	ND		3.2	0.78	ug/Kg	☼	08/31/20 10:17	09/02/20 08:30	1
PCB-1242	ND		3.2	0.56	ug/Kg	☼	08/31/20 10:17	09/02/20 08:30	1
PCB-1248	ND		3.2	0.46	ug/Kg	☼	08/31/20 10:17	09/02/20 08:30	1
PCB-1254	ND		3.2	0.59	ug/Kg	☼	08/31/20 10:17	09/02/20 08:30	1
PCB-1260	ND		3.2	1.2	ug/Kg	☼	08/31/20 10:17	09/02/20 08:30	1
Polychlorinated biphenyls, Total	ND		3.2	1.2	ug/Kg	☼	08/31/20 10:17	09/02/20 08:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*44 - 135*	*08/31/20 10:17*	*09/02/20 08:30*	*1*
Tetrachloro-m-xylene	*35*	*X*	*48 - 122*	*08/31/20 10:17*	*09/02/20 08:30*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**4.3**	**J B**	32	1.4	pg/g	☼	08/25/20 07:18	09/14/20 13:17	1
PCB-2	**5.1**	**J B**	32	1.2	pg/g	☼	08/25/20 07:18	09/14/20 13:17	1
PCB-3	**13**	**J B**	32	1.4	pg/g	☼	08/25/20 07:18	09/14/20 13:17	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*54*		*5 - 145*	*08/25/20 07:18*	*09/14/20 13:17*	*1*
PCB-3L	*54*		*5 - 145*	*08/25/20 07:18*	*09/14/20 13:17*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*59*		*5 - 145*	*08/25/20 07:18*	*09/14/20 13:17*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-4	ND		160	12	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-5	ND		160	19	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-6	ND		160	17	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-7	ND		160	18	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-8	**40**	**J**	160	17	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-9	ND		160	17	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-10	ND		160	9.4	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-11	ND		160	20	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-12/13	ND		320	21	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-14	ND		160	19	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-15	**49**	**J**	160	16	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-16	**34**	**J**	160	6.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-17	**52**	**J**	160	5.6	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-18/30	**74**	**J B**	320	4.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-19	**7.8**	**J**	160	5.5	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-20/28	**320**	**J B**	480	6.9	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-21/33	**120**	**J B**	320	7.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-22	**69**	**J q**	160	6.6	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-23	ND		160	6.8	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-24	ND		160	4.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-25	**17**	**J**	160	6.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-26/29	**38**	**J**	320	6.9	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-27	**7.8**	**J**	160	4.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5

Client Sample ID: ST-15-COAL LAYER
Lab Sample ID: 580-96897-10
Date Collected: 08/19/20 09:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 62.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-31	260	B	160	6.7	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-32	28	J	160	3.9	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-34	ND		160	6.8	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-35	ND		160	7.4	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-36	ND		160	7.5	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-37	98	J	160	8.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-38	ND		160	7.9	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-39	ND		160	6.9	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-40/71	110	J	320	5.8	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-41	15	J	160	9.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-42	73	J	160	6.5	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-43	11	J	160	6.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-44/47/65	250	J B	480	6.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-45	27	J	160	7.5	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-46	10	J	160	7.6	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-48	53	J	160	6.7	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-49/69	150	J B	320	5.4	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-50/53	27	J	320	6.8	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-51	9.6	J	160	5.7	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-52	240	B	160	6.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-54	ND		160	1.5	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-55	ND		160	2.7	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-56	190		160	3.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-57	ND		160	3.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-58	ND		160	2.7	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-59/62/75	18	J	480	5.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-60	67	J	160	3.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-61/70/74/76	470	J B	640	3.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-63	16	J	160	3.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-64	130	J B	160	5.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-66	400	B	160	2.9	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-67	6.3	J	160	2.6	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-68	ND		160	2.8	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-72	ND		160	3.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-73	ND		160	4.7	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-77	44		16	4.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-78	ND		160	3.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-79	ND		160	3.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-80	ND		160	2.7	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-81	ND		16	5.8	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-82	26	J	160	2.7	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-83	14	J	160	3.4	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-84	31	J	160	2.9	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-85/116/117	39	J	480	2.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-86/87/97/108/119/125	94	J	960	2.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-88/91	18	J	320	2.6	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-89	3.8	J	160	2.8	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-90/101/113	120	J B	480	2.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-92	19	J	160	2.5	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-15-COAL LAYER
Lab Sample ID: 580-96897-10
Date Collected: 08/19/20 09:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 62.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-93/100	ND		320	2.5	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-107/124	**5.7**	**J**	320	2.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-94	ND		160	2.7	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-95	**71**	**J B**	160	2.5	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-96	**1.1**	**J**	160	0.58	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-98/102	**7.3**	**J**	320	2.4	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-99	**69**	**J**	160	2.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-103	ND		160	2.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-104	**1.2**	**J**	160	0.64	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-105	**69**		32	2.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-106	ND		160	2.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-110/115	**160**	**J B**	320	1.9	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-109	**13**	**J**	160	1.8	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-111	ND		160	1.9	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-112	ND		160	1.6	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-114	**4.8**	**J**	16	2.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-118	**150**	**B**	32	2.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-120	ND		160	1.7	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-121	ND		160	1.7	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-122	**3.4**	**J**	160	2.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-123	**4.9**	**J**	16	2.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-126	ND		16	2.8	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-127	ND		160	2.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-128/166	**12**	**J**	320	1.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-129/138/163	**76**	**J B**	480	1.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-130	**5.2**	**J**	160	1.5	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-131	ND		160	1.4	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-132	**27**	**J**	160	1.4	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-133	**1.4**	**J**	160	1.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-134/143	**2.4**	**J q**	320	1.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-135/151	**4.5**	**J B**	320	1.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-136	**6.0**	**J**	160	0.88	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-137	**3.6**	**J q**	160	1.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-139/140	ND		320	1.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-141	**13**	**J**	160	1.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-142	ND		160	1.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-144	ND		160	1.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-145	ND		160	0.94	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-146	**9.1**	**J**	160	0.99	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-147/149	**42**	**J B**	320	1.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-148	ND		160	1.2	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-150	ND		160	0.86	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-152	ND		160	0.92	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-153/168	**56**	**J B**	320	0.98	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-154	**13**	**J**	160	1.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-155	**1.0**	**J**	160	0.86	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-156/157	**11**	**J**	32	1.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-158	**6.8**	**J**	160	0.88	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-159	ND		160	0.61	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5

Client Sample ID: ST-15-COAL LAYER
Lab Sample ID: 580-96897-10

Date Collected: 08/19/20 09:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 62.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-160	ND		160	1.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-161	ND		160	1.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-162	ND		160	0.68	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-164	**5.1**	**J**	160	1.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-165	ND		160	0.99	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-167	**3.8**	**J**	16	0.63	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-169	ND		16	0.78	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-170	**15**	**J**	160	1.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-171/173	**4.5**	**J**	320	0.95	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-172	**2.4**	**J q**	160	1.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-174	**14**	**J q B**	160	0.91	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-175	ND		160	0.91	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-176	**1.1**	**J q**	160	0.74	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-177	**9.2**	**J**	160	0.89	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-178	**3.4**	**J q**	160	0.96	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-179	**6.0**	**J**	160	0.65	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-180/193	**34**	**J B**	320	0.76	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-181	ND		160	0.87	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-182	ND		160	0.91	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-183	**9.0**	**J B**	160	0.76	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-184	ND		160	0.68	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-185	**1.7**	**J**	160	0.97	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-186	ND		160	0.61	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-187	**21**	**J**	160	0.79	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-188	ND		160	0.73	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-189	ND		16	1.9	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-190	**2.8**	**J**	160	0.64	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-191	ND		160	0.68	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-192	ND		160	0.63	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-194	**13**	**J**	160	1.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-195	**3.1**	**J**	160	1.3	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-196	**5.5**	**J**	160	0.82	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-197	ND		160	0.55	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-198/199	**10**	**J**	320	0.78	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-200	**1.0**	**J**	160	0.67	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-201	**1.9**	**J**	160	0.66	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-202	**3.0**	**J**	160	0.55	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-203	**6.9**	**J**	160	0.70	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-204	ND		160	0.61	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-205	ND		160	1.4	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-206	**7.5**	**J q**	160	1.5	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-207	ND		160	1.0	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-208	**1.2**	**J**	160	1.1	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5
PCB-209	**2.7**	**J q**	160	1.8	pg/g	☼	08/25/20 07:18	09/14/20 15:58	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*66*		*5 - 145*	*08/25/20 07:18*	*09/14/20 15:58*	*5*
PCB-15L	*83*		*5 - 145*	*08/25/20 07:18*	*09/14/20 15:58*	*5*
PCB-19L	*64*		*5 - 145*	*08/25/20 07:18*	*09/14/20 15:58*	*5*
PCB-37L	*88*		*5 - 145*	*08/25/20 07:18*	*09/14/20 15:58*	*5*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-15-COAL LAYER
Lab Sample ID: 580-96897-10
Date Collected: 08/19/20 09:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 62.4

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-54L	87		5 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-77L	72		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-81L	59		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-104L	67		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-105L	91		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-114L	88		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-118L	85		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-123L	83		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-126L	81		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-155L	71		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-156L/157L	75		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-167L	84		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-169L	74		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-188L	94		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-189L	92		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-202L	89		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-205L	64		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-206L	72		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-208L	62		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-209L	48		10 - 145	08/25/20 07:18	09/14/20 15:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	67		5 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-111L	91		10 - 145	08/25/20 07:18	09/14/20 15:58	5
PCB-178L	79		10 - 145	08/25/20 07:18	09/14/20 15:58	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	62.4		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	37.6		0.1	0.1	%			08/20/20 21:25	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-08-SURFACE GRAB
Lab Sample ID: 580-96897-11

Date Collected: 08/19/20 10:15
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 78.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.5	0.94	ug/Kg	☼	08/31/20 10:17	09/02/20 08:48	1
PCB-1221	ND		2.5	0.53	ug/Kg	☼	08/31/20 10:17	09/02/20 08:48	1
PCB-1232	ND		2.5	0.62	ug/Kg	☼	08/31/20 10:17	09/02/20 08:48	1
PCB-1242	ND		2.5	0.44	ug/Kg	☼	08/31/20 10:17	09/02/20 08:48	1
PCB-1248	ND		2.5	0.37	ug/Kg	☼	08/31/20 10:17	09/02/20 08:48	1
PCB-1254	ND		2.5	0.47	ug/Kg	☼	08/31/20 10:17	09/02/20 08:48	1
PCB-1260	ND		2.5	0.94	ug/Kg	☼	08/31/20 10:17	09/02/20 08:48	1
Polychlorinated biphenyls, Total	ND		2.5	0.94	ug/Kg	☼	08/31/20 10:17	09/02/20 08:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*44 - 135*	*08/31/20 10:17*	*09/02/20 08:48*	*1*
Tetrachloro-m-xylene	*88*		*48 - 122*	*08/31/20 10:17*	*09/02/20 08:48*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**2.1**	**J B**	25	0.21	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-2	**2.0**	**J B**	25	0.20	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-3	**6.5**	**J B**	25	0.24	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-4	**8.1**	**J**	25	5.2	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-5	ND		25	3.0	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-6	**6.2**	**J**	25	2.8	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-7	ND		25	2.9	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-8	**27**		25	2.7	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-9	ND		25	2.7	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-10	ND		25	5.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-11	**15**	**J B**	25	3.2	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-12/13	**14**	**J**	50	3.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-14	ND		25	3.0	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-15	**230**		25	3.2	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-16	**33**		25	2.0	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-17	**46**		25	1.9	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-18/30	**79**	**B**	50	1.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-19	**6.0**	**J**	25	1.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-20/28	**420**	**B**	75	5.6	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-21/33	**99**	**B**	50	5.8	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-22	**90**		25	5.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-23	ND		25	5.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-24	**2.5**	**J**	25	1.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-25	**17**	**J**	25	4.9	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-26/29	**48**	**J**	50	5.6	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-27	**10**	**J**	25	1.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-31	**330**	**B**	25	5.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-32	**38**		25	1.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-34	ND		25	5.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-35	**9.3**	**J**	25	5.9	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-36	ND		25	6.1	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-37	**360**		25	8.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-38	ND		25	6.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-39	ND		25	5.6	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-40/71	**75**		50	5.0	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-08-SURFACE GRAB
Lab Sample ID: 580-96897-11
Date Collected: 08/19/20 10:15
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 78.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	10	J	25	7.8	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-42	53		25	5.6	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-43	7.9	J	25	5.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-44/47/65	200	B	75	5.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-45	39		25	6.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-46	ND		25	6.6	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-48	30		25	5.8	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-49/69	140	B	50	4.7	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-50/53	33	J	50	5.9	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-51	11	J	25	4.9	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-52	240	B	25	5.2	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-54	0.71	J	25	0.41	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-55	ND		25	1.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-56	160		25	1.7	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-57	ND		25	1.7	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-58	ND		25	1.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-59/62/75	26	J	75	4.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-60	94		25	1.8	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-61/70/74/76	470	B	100	1.6	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-63	9.3	J	25	1.8	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-64	120	B	25	4.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-66	430	B	25	1.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-67	3.7	J	25	1.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-68	ND		25	1.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-72	3.1	J	25	1.7	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-73	ND		25	4.0	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-77	150		2.5	2.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-78	ND		25	1.8	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-79	2.6	J	25	1.6	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-80	ND		25	1.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-81	4.0	G	2.6	2.6	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-82	30		25	2.7	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-83	13	J	25	3.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-84	38		25	2.9	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-85/116/117	57	J q	75	2.1	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-86/87/97/108/119/125	110	J	150	2.2	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-88/91	28	J	50	2.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-89	4.4	J	25	2.7	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-90/101/113	130	B	75	2.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-92	25		25	2.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-93/100	ND		50	2.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-107/124	9.3	J	50	2.1	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-94	ND		25	2.7	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-95	66	B	25	2.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-96	2.6	J	25	0.24	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-98/102	6.3	J	50	2.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-99	93		25	2.1	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-103	ND		25	2.2	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-104	ND		25	0.23	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-08-SURFACE GRAB
Lab Sample ID: 580-96897-11
Date Collected: 08/19/20 10:15
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 78.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**110**		5.0	1.9	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-106	ND		25	2.2	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-110/115	**200**	**B**	50	1.9	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-109	**14**	**J**	25	1.8	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-111	ND		25	1.9	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-112	ND		25	1.5	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-114	**7.4**		2.5	2.1	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-118	**190**	**B**	5.0	2.0	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-120	ND		25	1.7	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-121	ND		25	1.6	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-122	**5.7**	**J**	25	2.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-123	**8.0**		2.5	2.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-126	**2.7**		2.5	2.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-127	ND		25	2.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-128/166	**18**	**J**	50	0.88	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-129/138/163	**91**	**B**	75	0.94	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-130	**6.2**	**J**	25	1.2	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-131	ND		25	1.1	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-132	**24**	**J**	25	1.1	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-133	**1.2**	**J**	25	1.0	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-134/143	**2.9**	**J**	50	1.0	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-135/151	**20**	**J B**	50	0.95	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-136	**6.2**	**J**	25	0.69	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-137	**6.6**	**J**	25	1.0	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-139/140	**1.5**	**J**	50	0.92	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-141	**13**	**J**	25	1.0	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-142	ND		25	1.0	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-144	**2.6**	**J**	25	0.88	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-145	ND		25	0.74	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-146	**8.4**	**J q**	25	0.78	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-147/149	**43**	**J B**	50	0.91	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-148	ND		25	0.92	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-150	ND		25	0.68	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-152	ND		25	0.72	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-153/168	**60**	**B**	50	0.77	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-154	ND		25	0.87	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-155	ND		25	0.74	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-156/157	**16**		5.0	1.2	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-158	**8.7**	**J**	25	0.69	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-159	ND		25	0.78	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-160	ND		25	0.85	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-161	ND		25	0.81	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-162	ND		25	0.86	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-164	**5.7**	**J**	25	0.84	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-165	ND		25	0.78	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-167	**4.3**		2.5	0.83	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-169	ND		2.5	0.89	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-170	**16**	**J**	25	1.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-171/173	**4.1**	**J**	50	1.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-08-SURFACE GRAB
Lab Sample ID: 580-96897-11
Date Collected: 08/19/20 10:15
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 78.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	3.2	J	25	1.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-174	16	J B	25	1.3	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-175	ND		25	0.74	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-176	2.3	J	25	0.61	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-177	9.8	J	25	1.2	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-178	3.8	J	25	0.79	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-179	7.1	J	25	0.54	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-180/193	33	J B	50	1.1	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-181	ND		25	1.2	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-182	ND		25	0.75	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-183	7.5	J B	25	1.1	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-184	ND		25	0.56	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-185	2.3	J	25	1.4	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-186	ND		25	0.50	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-187	23	J	25	0.65	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-188	ND		25	0.54	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-189	ND		2.5	0.84	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-190	3.8	J	25	0.90	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-191	ND		25	0.96	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-192	ND		25	0.88	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-194	7.9	J	25	0.41	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-195	2.6	J	25	0.41	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-196	2.4	J	25	0.28	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-197	0.29	J	25	0.18	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-198/199	9.7	J	50	0.26	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-200	1.1	J	25	0.23	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-201	0.79	J	25	0.22	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-202	2.0	J	25	0.20	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-203	4.1	J	25	0.23	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-204	ND		25	0.20	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-205	0.58	J	25	0.38	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-206	4.4	J	25	0.31	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-207	0.35	J q	25	0.23	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-208	1.4	J	25	0.25	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1
PCB-209	3.0	J	25	0.35	pg/g	☼	08/25/20 07:18	09/14/20 14:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*53*		*5 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-3L	*49*		*5 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-4L	*53*		*5 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-15L	*43*		*5 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-19L	*46*		*5 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-37L	*34*		*5 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-54L	*50*		*5 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-77L	*42*		*10 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-81L	*41*		*10 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-104L	*35*		*10 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-105L	*47*		*10 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-114L	*44*		*10 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*
PCB-118L	*42*		*10 - 145*	*08/25/20 07:18*	*09/14/20 14:32*	*1*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-08-SURFACE GRAB
Lab Sample ID: 580-96897-11
Date Collected: 08/19/20 10:15
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 78.5

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	40		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-126L	49		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-155L	34		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-156L/157L	41		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-167L	44		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-169L	45		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-188L	51		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-189L	41		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-202L	49		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-205L	43		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-206L	45		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-208L	36		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-209L	31		10 - 145	08/25/20 07:18	09/14/20 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	59		5 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-111L	79		10 - 145	08/25/20 07:18	09/14/20 14:32	1
PCB-178L	79		10 - 145	08/25/20 07:18	09/14/20 14:32	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		0.21	0.041	mg/Kg	☼	08/24/20 14:16	08/25/20 16:16	5
Cadmium	2.2		0.33	0.032	mg/Kg	☼	08/24/20 14:16	08/25/20 16:16	5
Copper	6.6		0.41	0.090	mg/Kg	☼	08/24/20 14:16	08/25/20 16:16	5
Lead	61		0.21	0.020	mg/Kg	☼	08/24/20 14:16	08/25/20 16:16	5
Zinc	580		2.1	0.66	mg/Kg	☼	08/24/20 14:16	08/25/20 16:16	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	78.5		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	21.5		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: ST-14-COAL LAYER
Lab Sample ID: 580-96897-12

Date Collected: 08/19/20 11:10
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 64.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		3.0	1.1	ug/Kg	☼	08/31/20 10:17	09/02/20 09:06	1
PCB-1221	ND		3.0	0.63	ug/Kg	☼	08/31/20 10:17	09/02/20 09:06	1
PCB-1232	ND		3.0	0.74	ug/Kg	☼	08/31/20 10:17	09/02/20 09:06	1
PCB-1242	ND		3.0	0.53	ug/Kg	☼	08/31/20 10:17	09/02/20 09:06	1
PCB-1248	**69**		3.0	0.44	ug/Kg	☼	08/31/20 10:17	09/02/20 09:06	1
PCB-1254	ND		3.0	0.56	ug/Kg	☼	08/31/20 10:17	09/02/20 09:06	1
PCB-1260	ND		3.0	1.1	ug/Kg	☼	08/31/20 10:17	09/02/20 09:06	1
Polychlorinated biphenyls, Total	**69**		3.0	1.1	ug/Kg	☼	08/31/20 10:17	09/02/20 09:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*44 - 135*	*08/31/20 10:17*	*09/02/20 09:06*	*1*
Tetrachloro-m-xylene	*39*	*X*	*48 - 122*	*08/31/20 10:17*	*09/02/20 09:06*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**21**	**J B**	160	2.3	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-2	**18**	**J B**	160	2.0	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-3	**31**	**J B**	160	2.3	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-4	**170**		160	6.8	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-5	ND		160	13	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-6	**200**		160	12	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-7	ND		160	13	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-8	**1000**		160	12	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-9	**48**	**J**	160	12	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-10	ND		160	5.4	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-11	**82**	**J B**	160	15	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-12/13	**150**	**J**	310	15	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-14	ND		160	14	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-15	**950**		160	12	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-16	**640**		160	8.4	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-17	**910**		160	7.9	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-18/30	**1600**	**B**	310	5.8	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-19	**130**	**J**	160	7.8	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-20/28	**8900**	**B**	470	71	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-21/33	**3000**	**B**	310	73	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-22	**2000**		160	67	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-23	ND		160	70	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-24	**33**	**J**	160	6.1	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-25	**470**		160	62	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-26/29	**1000**		310	71	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-27	**160**		160	5.6	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-31	**6600**	**B**	160	69	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-32	**670**		160	5.5	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-34	ND		160	69	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-35	ND		160	75	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-36	ND		160	77	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-37	**2100**		160	80	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-38	ND		160	80	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-39	ND		160	71	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-40/71	**2100**		310	110	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-14-COAL LAYER
Lab Sample ID: 580-96897-12
Date Collected: 08/19/20 11:10
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 64.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	490	G	170	170	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-42	1500		160	120	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-43	290		160	120	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-44/47/65	5000	B	470	120	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-45	570		160	140	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-46	190		160	150	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-48	1100		160	130	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-49/69	3200	B	310	100	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-50/53	530		310	130	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-51	140	J	160	110	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-52	4700	B	160	110	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-54	4.8	J	160	0.48	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-55	ND		160	45	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-56	4500		160	51	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-57	ND		160	53	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-58	ND		160	44	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-59/62/75	450	J	470	100	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-60	1600		160	56	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-61/70/74/76	11000	B	620	49	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-63	380		160	54	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-64	2600	B	160	95	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-66	9200	B	160	47	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-67	200		160	42	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-68	ND		160	46	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-72	83	J	160	52	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-73	ND		160	89	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-77	960	G	73	73	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-78	ND		160	55	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-79	ND		160	50	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-80	ND		160	45	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-81	ND	G	100	100	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-82	480		160	36	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-83	ND		160	45	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-84	520		160	39	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-85/116/117	760		470	29	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-86/87/97/108/119/125	1500		940	30	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-88/91	320		310	35	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-89	ND		160	37	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-90/101/113	1500	B	470	31	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-92	310		160	33	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-93/100	ND		310	34	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-107/124	79	J	310	29	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-94	ND		160	37	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-95	810	B	160	34	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-96	20	J	160	0.48	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-98/102	ND		310	33	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-99	1100		160	29	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-103	ND		160	30	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-104	ND		160	0.47	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-14-COAL LAYER
Lab Sample ID: 580-96897-12
Date Collected: 08/19/20 11:10
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 64.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**980**		31	29	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-106	ND		160	31	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-110/115	**2000**	**B**	310	26	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-109	**180**		160	24	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-111	ND		160	26	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-112	ND		160	21	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-114	**72**	**G**	30	30	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-118	**2100**	**B**	31	27	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-120	ND		160	23	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-121	ND		160	22	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-122	**51**	**J q**	160	31	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-123	**67**	**G**	29	29	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-126	ND	G	31	31	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-127	ND		160	31	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-128/166	**110**	**J**	310	5.6	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-129/138/163	**540**	**B**	470	6.0	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-130	**53**	**J**	160	7.4	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-131	ND		160	6.9	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-132	**190**		160	6.9	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-133	ND		160	6.6	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-134/143	**30**	**J**	310	6.5	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-135/151	**130**	**J B**	310	6.1	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-136	**43**	**J**	160	4.4	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-137	**38**	**J**	160	6.5	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-139/140	**12**	**J**	310	5.9	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-141	**87**	**J**	160	6.4	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-142	ND		160	6.6	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-144	ND		160	5.6	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-145	ND		160	4.7	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-146	**66**	**J**	160	5.0	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-147/149	**310**	**B**	310	5.8	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-148	ND		160	5.9	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-150	ND		160	4.3	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-152	ND		160	4.6	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-153/168	**350**	**B**	310	4.9	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-154	ND		160	5.5	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-155	ND		160	5.2	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-156/157	**130**		31	1.6	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-158	**60**	**J**	160	4.4	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-159	**3.7**	**J**	160	1.1	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-160	ND		160	5.5	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-161	ND		160	5.2	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-162	**3.0**	**J q**	160	1.2	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-164	**44**	**J**	160	5.3	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-165	ND		160	5.0	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-167	**40**		16	1.2	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-169	ND		16	1.2	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-170	**110**	**J**	160	1.6	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-171/173	**31**	**J**	310	1.5	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5

Client Sample ID: ST-14-COAL LAYER
Lab Sample ID: 580-96897-12

Date Collected: 08/19/20 11:10
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 64.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	20	J	160	1.6	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-174	100	J B	160	1.5	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-175	3.4	J	160	0.38	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-176	11	J	160	0.31	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-177	54	J	160	1.4	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-178	20	J	160	0.41	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-179	40	J	160	0.28	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-180/193	200	J B	310	1.2	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-181	ND		160	1.4	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-182	ND		160	0.39	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-183	51	J B	160	1.2	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-184	ND		160	0.29	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-185	11	J	160	1.6	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-186	ND		160	0.26	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-187	110	J	160	0.33	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-188	ND		160	0.36	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-189	5.6	J q	16	1.3	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-190	20	J	160	1.0	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-191	3.3	J q	160	1.1	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-192	ND		160	1.0	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-194	79	J	160	0.53	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-195	25	J	160	0.53	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-196	32	J	160	0.48	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-197	1.8	J q	160	0.32	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-198/199	74	J	310	0.46	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-200	9.3	J	160	0.40	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-201	9.5	J q	160	0.39	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-202	16	J	160	0.39	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-203	45	J	160	0.41	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-204	ND		160	0.36	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-205	4.9	J	160	0.46	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-206	30	J	160	0.60	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-207	3.5	J	160	0.40	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-208	8.8	J	160	0.39	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5
PCB-209	12	J	160	0.54	pg/g	☼	08/25/20 07:18	09/06/20 16:11	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*54*		*5 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-3L	*57*		*5 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-4L	*61*		*5 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-15L	*78*		*5 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-19L	*59*		*5 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-37L	*97*		*5 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-54L	*88*		*5 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-77L	*71*		*10 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-81L	*57*		*10 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-104L	*89*		*10 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-105L	*89*		*10 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-114L	*88*		*10 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*
PCB-118L	*85*		*10 - 145*	*08/25/20 07:18*	*09/06/20 16:11*	*5*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-14-COAL LAYER
Lab Sample ID: 580-96897-12
Date Collected: 08/19/20 11:10
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 64.2

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	90		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-126L	99		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-155L	78		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-156L/157L	101		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-167L	96		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-169L	101		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-188L	88		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-189L	113		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-202L	81		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-205L	83		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-206L	86		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-208L	76		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-209L	59		10 - 145	08/25/20 07:18	09/06/20 16:11	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	73		5 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-111L	96		10 - 145	08/25/20 07:18	09/06/20 16:11	5
PCB-178L	85		10 - 145	08/25/20 07:18	09/06/20 16:11	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	64.2		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	35.8		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: ST-06-SURFACE GRAB
Lab Sample ID: 580-96897-13

Date Collected: 08/19/20 12:05
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 71.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.7	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 09:24	1
PCB-1221	ND		2.7	0.58	ug/Kg	☼	08/31/20 10:17	09/02/20 09:24	1
PCB-1232	ND		2.7	0.67	ug/Kg	☼	08/31/20 10:17	09/02/20 09:24	1
PCB-1242	ND		2.7	0.48	ug/Kg	☼	08/31/20 10:17	09/02/20 09:24	1
PCB-1248	**8.6**		2.7	0.40	ug/Kg	☼	08/31/20 10:17	09/02/20 09:24	1
PCB-1254	ND		2.7	0.51	ug/Kg	☼	08/31/20 10:17	09/02/20 09:24	1
PCB-1260	ND		2.7	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 09:24	1
Polychlorinated biphenyls, Total	**8.6**		2.7	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*37*	*X*	*44 - 135*	*08/31/20 10:17*	*09/02/20 09:24*	*1*
Tetrachloro-m-xylene	*35*	*X*	*48 - 122*	*08/31/20 10:17*	*09/02/20 09:24*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**1.8**	**J B**	27	0.25	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-2	**2.3**	**J B**	27	0.23	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-3	**8.2**	**J B**	27	0.26	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-4	ND		27	4.3	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-5	ND		27	2.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-6	**6.2**	**J**	27	2.3	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-7	ND		27	2.4	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-8	**32**		27	2.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-9	ND		27	2.3	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-10	ND		27	3.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-11	**17**	**J B**	27	2.7	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-12/13	**16**	**J**	54	2.8	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-14	ND		27	2.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-15	**230**		27	2.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-16	**24**	**J**	27	1.0	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-17	**34**		27	0.96	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-18/30	**62**	**B**	54	0.71	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-19	**7.4**	**J**	27	0.88	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-20/28	**430**	**B**	81	5.3	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-21/33	**95**	**B**	54	5.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-22	**89**		27	5.1	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-23	ND		27	5.3	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-24	**1.5**	**J**	27	0.74	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-25	**17**	**J**	27	4.7	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-26/29	**44**	**J**	54	5.3	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-27	**6.8**	**J**	27	0.68	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-31	**330**	**B**	27	5.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-32	**31**		27	0.67	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-34	ND		27	5.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-35	**11**	**J**	27	5.7	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-36	ND		27	5.8	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-37	**300**		27	6.4	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-38	ND		27	6.1	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-39	ND		27	5.4	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-40/71	**82**		54	2.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1

Client Sample ID: ST-06-SURFACE GRAB
Lab Sample ID: 580-96897-13

Date Collected: 08/19/20 12:05
Matrix: Solid

Date Received: 08/20/20 09:20
Percent Solids: 71.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	14	J	27	3.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-42	58		27	2.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-43	8.5	J	27	2.4	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-44/47/65	200	B	81	2.3	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-45	30		27	2.8	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-46	9.1	J	27	2.9	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-48	38		27	2.6	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-49/69	150	B	54	2.1	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-50/53	28	J	54	2.6	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-51	6.7	J	27	2.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-52	210	B	27	2.3	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-54	0.55	J q	27	0.21	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-55	ND		27	1.7	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-56	200		27	1.9	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-57	ND		27	2.0	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-58	ND		27	1.7	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-59/62/75	28	J	81	2.0	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-60	110		27	2.1	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-61/70/74/76	260	B	110	1.9	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-63	7.2	J	27	2.1	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-64	120	B	27	1.9	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-66	320	B	27	1.8	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-67	ND		27	1.6	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-68	ND		27	1.8	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-72	ND		27	2.0	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-73	ND		27	1.8	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-77	150		2.7	2.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-78	ND		27	2.1	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-79	3.4	J	27	1.9	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-80	ND		27	1.7	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-81	ND		2.7	2.6	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-82	38		27	3.1	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-83	21	J	27	3.9	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-84	20	J	27	3.4	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-85/116/117	87		81	2.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-86/87/97/108/119/125	150	J	160	2.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-88/91	15	J	54	3.0	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-89	ND		27	3.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-90/101/113	160	B	81	2.7	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-92	31		27	2.8	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-93/100	ND		54	2.9	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-107/124	15	J	54	2.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-94	ND		27	3.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-95	47	B	27	2.9	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-96	2.9	J	27	0.091	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-98/102	ND		54	2.8	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-99	110		27	2.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-103	ND		27	2.6	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-104	ND		27	0.11	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-06-SURFACE GRAB
Lab Sample ID: 580-96897-13
Date Collected: 08/19/20 12:05
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 71.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**140**		5.4	2.3	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-106	ND		27	2.6	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-110/115	**240**	**B**	54	2.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-109	**22**	**J**	27	2.1	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-111	ND		27	2.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-112	ND		27	1.8	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-114	**9.8**		2.7	2.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-118	**240**	**B**	5.4	2.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-120	ND		27	2.0	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-121	ND		27	1.9	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-122	**7.1**	**J**	27	2.7	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-123	**12**		2.7	2.5	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-126	ND		2.7	2.7	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-127	ND		27	2.6	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-128/166	**27**	**J**	54	0.61	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-129/138/163	**120**	**B**	81	0.66	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-130	**9.8**	**J**	27	0.81	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-131	ND		27	0.76	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-132	**35**		27	0.75	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-133	ND		27	0.72	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-134/143	**5.1**	**J**	54	0.71	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-135/151	**25**	**J B**	54	0.66	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-136	**7.3**	**J**	27	0.48	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-137	**7.9**	**J**	27	0.71	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-139/140	**2.9**	**J**	54	0.64	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-141	**18**	**J**	27	0.71	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-142	ND		27	0.73	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-144	**3.7**	**J**	27	0.62	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-145	ND		27	0.51	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-146	**13**	**J**	27	0.55	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-147/149	**59**	**B**	54	0.64	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-148	ND		27	0.64	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-150	ND		27	0.47	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-152	ND		27	0.50	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-153/168	**73**	**B**	54	0.54	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-154	ND		27	0.61	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-155	ND		27	0.69	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-156/157	**26**		5.4	1.2	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-158	**14**	**J**	27	0.49	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-159	ND		27	0.81	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-160	ND		27	0.60	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-161	ND		27	0.57	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-162	ND		27	0.90	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-164	**9.7**	**J**	27	0.59	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-165	ND		27	0.54	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-167	**8.4**		2.7	0.83	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-169	ND		2.7	0.88	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-170	**28**		27	0.75	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-171/173	**7.9**	**J**	54	0.72	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1

Client Sample ID: ST-06-SURFACE GRAB
Lab Sample ID: 580-96897-13

Date Collected: 08/19/20 12:05
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 71.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	**5.8**	**J**	27	0.76	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-174	**27**	**B**	27	0.68	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-175	**1.0**	**J**	27	0.35	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-176	**3.0**	**J**	27	0.28	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-177	**16**	**J**	27	0.67	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-178	**6.0**	**J**	27	0.37	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-179	**10**	**J**	27	0.25	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-180/193	**54**	**B**	54	0.57	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-181	ND		27	0.65	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-182	ND		27	0.35	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-183	**13**	**J B**	27	0.57	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-184	ND		27	0.26	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-185	**3.3**	**J**	27	0.73	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-186	ND		27	0.23	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-187	**30**		27	0.30	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-188	ND		27	0.29	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-189	**1.6**	**J**	2.7	0.43	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-190	**6.0**	**J**	27	0.48	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-191	**1.1**	**J**	27	0.51	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-192	ND		27	0.47	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-194	**13**	**J**	27	0.26	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-195	**3.4**	**J**	27	0.27	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-196	**3.9**	**J**	27	0.15	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-197	**0.37**	**J**	27	0.099	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-198/199	**16**	**J**	54	0.14	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-200	**2.1**	**J**	27	0.12	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-201	**1.8**	**J**	27	0.12	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-202	**3.3**	**J**	27	0.11	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-203	**4.6**	**J**	27	0.13	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-204	ND		27	0.11	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-205	**1.1**	**J**	27	0.25	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-206	**6.3**	**J**	27	0.34	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-207	**0.72**	**J**	27	0.22	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-208	**2.1**	**J**	27	0.21	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1
PCB-209	**4.1**	**J**	27	0.16	pg/g	☼	08/25/20 07:18	09/05/20 18:40	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*52*		*5 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-3L	*54*		*5 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-4L	*52*		*5 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-15L	*65*		*5 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-19L	*52*		*5 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-37L	*72*		*5 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-54L	*71*		*5 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-77L	*89*		*10 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-81L	*88*		*10 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-104L	*68*		*10 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-105L	*91*		*10 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-114L	*90*		*10 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*
PCB-118L	*89*		*10 - 145*	*08/25/20 07:18*	*09/05/20 18:40*	*1*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-06-SURFACE GRAB
Lab Sample ID: 580-96897-13
Date Collected: 08/19/20 12:05
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 71.6

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	89		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-126L	101		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-155L	62		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-156L/157L	98		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-167L	97		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-169L	102		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-188L	97		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-189L	99		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-202L	99		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-205L	90		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-206L	67		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-208L	67		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-209L	69		10 - 145	08/25/20 07:18	09/05/20 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	66		5 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-111L	82		10 - 145	08/25/20 07:18	09/05/20 18:40	1
PCB-178L	84		10 - 145	08/25/20 07:18	09/05/20 18:40	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		0.20	0.040	mg/Kg	☼	08/24/20 14:16	08/25/20 16:20	5
Cadmium	6.9		0.32	0.031	mg/Kg	☼	08/24/20 14:16	08/25/20 16:20	5
Copper	7.4		0.40	0.089	mg/Kg	☼	08/24/20 14:16	08/25/20 16:20	5
Lead	86		0.20	0.019	mg/Kg	☼	08/24/20 14:16	08/25/20 16:20	5
Zinc	780		2.1	0.65	mg/Kg	☼	08/24/20 14:16	08/25/20 16:20	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	71.6		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	28.4		0.1	0.1	%			08/20/20 21:25	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-13-COAL LAYER
Lab Sample ID: 580-96897-14
Date Collected: 08/19/20 13:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.8	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 09:42	1
PCB-1221	ND		2.8	0.60	ug/Kg	☼	08/31/20 10:17	09/02/20 09:42	1
PCB-1232	ND		2.8	0.69	ug/Kg	☼	08/31/20 10:17	09/02/20 09:42	1
PCB-1242	ND		2.8	0.50	ug/Kg	☼	08/31/20 10:17	09/02/20 09:42	1
PCB-1248	ND		2.8	0.41	ug/Kg	☼	08/31/20 10:17	09/02/20 09:42	1
PCB-1254	ND		2.8	0.52	ug/Kg	☼	08/31/20 10:17	09/02/20 09:42	1
PCB-1260	ND		2.8	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 09:42	1
Polychlorinated biphenyls, Total	ND		2.8	1.0	ug/Kg	☼	08/31/20 10:17	09/02/20 09:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*44 - 135*	*08/31/20 10:17*	*09/02/20 09:42*	*1*
Tetrachloro-m-xylene	*53*		*48 - 122*	*08/31/20 10:17*	*09/02/20 09:42*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**3.0**	**J q B**	29	1.3	pg/g	☼	08/25/20 07:18	09/05/20 19:56	1
PCB-2	**6.1**	**J B**	29	1.1	pg/g	☼	08/25/20 07:18	09/05/20 19:56	1
PCB-3	**12**	**J B**	29	1.4	pg/g	☼	08/25/20 07:18	09/05/20 19:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*55*		*5 - 145*	*08/25/20 07:18*	*09/05/20 19:56*	*1*
PCB-3L	*55*		*5 - 145*	*08/25/20 07:18*	*09/05/20 19:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-28L	*72*		*5 - 145*	*08/25/20 07:18*	*09/05/20 19:56*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-4	ND		150	6.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-5	ND		150	8.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-6	ND		150	7.5	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-7	ND		150	7.9	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-8	**29**	**J**	150	7.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-9	ND		150	7.5	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-10	ND		150	5.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-11	**28**	**J B**	150	8.8	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-12/13	ND		290	9.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-14	ND		150	8.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-15	**98**	**J**	150	7.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-16	**9.8**	**J q**	150	2.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-17	**15**	**J**	150	2.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-18/30	**31**	**J B**	290	1.6	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-19	ND		150	2.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-20/28	**260**	**J B**	440	4.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-21/33	**44**	**J q B**	290	4.6	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-22	**46**	**J**	150	4.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-23	ND		150	4.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-24	ND		150	1.7	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-25	**9.9**	**J**	150	3.9	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-26/29	**23**	**J**	290	4.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-27	**4.0**	**J**	150	1.6	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-13-COAL LAYER
Lab Sample ID: 580-96897-14
Date Collected: 08/19/20 13:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-31	170	B	150	4.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-32	15	J	150	1.5	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-34	ND		150	4.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-35	ND		150	4.7	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-36	ND		150	4.8	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-37	120	J	150	4.9	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-38	ND		150	5.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-39	ND		150	4.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-40/71	39	J	290	2.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-41	6.2	J	150	3.5	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-42	26	J	150	2.5	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-43	ND		150	2.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-44/47/65	99	J B	440	2.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-45	9.8	J	150	2.9	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-46	ND		150	3.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-48	17	J	150	2.6	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-49/69	77	J B	290	2.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-50/53	11	J	290	2.7	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-51	ND		150	2.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-52	100	J B	150	2.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-54	ND		150	0.60	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-55	ND		150	1.9	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-56	110	J	150	2.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-57	ND		150	2.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-58	ND		150	1.9	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-59/62/75	9.4	J	440	2.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-60	54	J	150	2.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-61/70/74/76	330	J B	580	2.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-63	8.9	J q	150	2.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-64	87	J B	150	1.9	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-66	330	B	150	2.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-67	2.9	J	150	1.8	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-68	ND		150	1.9	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-72	ND		150	2.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-73	ND		150	1.8	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-77	51		15	2.9	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-78	ND		150	2.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-79	ND		150	2.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-80	ND		150	1.9	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-81	ND		15	3.8	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-82	ND		150	1.6	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-83	ND		150	2.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-84	13	J	150	1.7	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-85/116/117	29	J	440	1.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-86/87/97/108/119/125	40	J	880	1.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-88/91	7.1	J q	290	1.5	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-89	ND		150	1.6	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-90/101/113	51	J B	440	1.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-92	8.1	J	150	1.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-13-COAL LAYER
Lab Sample ID: 580-96897-14
Date Collected: 08/19/20 13:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-93/100	ND		290	1.5	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-107/124	**2.0**	**J q**	290	1.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-94	ND		150	1.6	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-95	**33**	**J B**	150	1.5	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-96	ND		150	0.36	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-98/102	ND		290	1.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-99	**37**	**J**	150	1.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-103	ND		150	1.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-104	ND		150	0.35	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-105	**37**		29	1.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-106	ND		150	1.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-110/115	**71**	**J B**	290	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-109	**5.5**	**J**	150	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-111	ND		150	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-112	ND		150	0.93	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-114	**1.5**	**J q**	15	1.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-118	**79**	**B**	29	1.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-120	ND		150	1.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-121	ND		150	0.99	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-122	ND		150	1.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-123	**2.1**	**J q**	15	1.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-126	ND		15	1.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-127	ND		150	1.4	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-128/166	**7.4**	**J**	290	0.97	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-129/138/163	**44**	**J B**	440	1.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-130	ND		150	1.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-131	ND		150	1.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-132	**13**	**J**	150	1.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-133	ND		150	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-134/143	ND		290	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-135/151	ND		290	1.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-136	**3.6**	**J**	150	0.76	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-137	ND		150	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-139/140	ND		290	1.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-141	**6.0**	**J q**	150	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-142	ND		150	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-144	ND		150	0.97	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-145	ND		150	0.81	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-146	**4.4**	**J**	150	0.86	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-147/149	**29**	**J B**	290	1.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-148	ND		150	1.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-150	ND		150	0.75	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-152	ND		150	0.80	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-153/168	**36**	**J B**	290	0.85	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-154	ND		150	0.96	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-155	ND		150	0.86	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-156/157	**7.8**	**J**	29	1.6	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-158	**4.0**	**J**	150	0.77	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-159	ND		150	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-13-COAL LAYER
Lab Sample ID: 580-96897-14
Date Collected: 08/19/20 13:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-160	ND		150	0.94	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-161	ND		150	0.89	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-162	ND		150	1.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-164	ND		150	0.92	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-165	ND		150	0.86	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-167	ND		15	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-169	ND		15	1.3	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-170	**12**	**J**	150	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-171/173	ND		290	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-172	**1.9**	**J**	150	1.2	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-174	**12**	**J B**	150	1.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-175	ND		150	0.59	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-176	ND		150	0.49	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-177	**6.5**	**J**	150	1.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-178	**2.1**	**J q**	150	0.63	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-179	**4.3**	**J q**	150	0.43	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-180/193	**29**	**J B**	290	0.87	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-181	ND		150	1.0	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-182	ND		150	0.60	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-183	**7.8**	**J B**	150	0.86	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-184	ND		150	0.45	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-185	ND		150	1.1	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-186	ND		150	0.40	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-187	**16**	**J**	150	0.52	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-188	ND		150	0.56	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-189	ND		15	1.7	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-190	**2.8**	**J**	150	0.73	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-191	ND		150	0.78	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-192	ND		150	0.72	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-194	**10**	**J**	150	0.65	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-195	**2.7**	**J q**	150	0.65	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-196	**5.2**	**J**	150	0.33	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-197	ND		150	0.22	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-198/199	**8.2**	**J**	290	0.31	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-200	ND		150	0.27	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-201	**1.0**	**J q**	150	0.27	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-202	**2.2**	**J q**	150	0.27	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-203	**5.9**	**J**	150	0.28	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-204	ND		150	0.25	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-205	ND		150	0.57	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-206	**4.7**	**J q**	150	0.75	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-207	ND		150	0.55	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-208	**0.84**	**J q**	150	0.57	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5
PCB-209	ND		150	0.92	pg/g	☼	08/25/20 07:18	09/06/20 17:26	5

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-4L	*66*		*5 - 145*	*08/25/20 07:18*	*09/06/20 17:26*	*5*
PCB-15L	*81*		*5 - 145*	*08/25/20 07:18*	*09/06/20 17:26*	*5*
PCB-19L	*65*		*5 - 145*	*08/25/20 07:18*	*09/06/20 17:26*	*5*
PCB-37L	*110*		*5 - 145*	*08/25/20 07:18*	*09/06/20 17:26*	*5*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-13-COAL LAYER
Lab Sample ID: 580-96897-14
Date Collected: 08/19/20 13:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.3

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) - DL (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-54L	89		5 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-77L	78		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-81L	72		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-104L	84		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-105L	89		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-114L	89		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-118L	90		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-123L	91		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-126L	101		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-155L	71		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-156L/157L	98		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-167L	97		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-169L	89		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-188L	88		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-189L	113		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-202L	86		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-205L	86		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-206L	87		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-208L	64		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-209L	44		10 - 145	08/25/20 07:18	09/06/20 17:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	82		5 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-111L	100		10 - 145	08/25/20 07:18	09/06/20 17:26	5
PCB-178L	84		10 - 145	08/25/20 07:18	09/06/20 17:26	5

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	69.3		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	30.7		0.1	0.1	%			08/20/20 21:25	1

Client Sample ID: ST-13-SAND LAYER
Lab Sample ID: 580-96897-15

Date Collected: 08/19/20 13:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 75.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.6	0.96	ug/Kg	☼	08/31/20 10:17	09/02/20 09:59	1
PCB-1221	ND		2.6	0.54	ug/Kg	☼	08/31/20 10:17	09/02/20 09:59	1
PCB-1232	ND		2.6	0.63	ug/Kg	☼	08/31/20 10:17	09/02/20 09:59	1
PCB-1242	ND		2.6	0.45	ug/Kg	☼	08/31/20 10:17	09/02/20 09:59	1
PCB-1248	ND		2.6	0.37	ug/Kg	☼	08/31/20 10:17	09/02/20 09:59	1
PCB-1254	ND		2.6	0.48	ug/Kg	☼	08/31/20 10:17	09/02/20 09:59	1
PCB-1260	ND		2.6	0.96	ug/Kg	☼	08/31/20 10:17	09/02/20 09:59	1
Polychlorinated biphenyls, Total	ND		2.6	0.96	ug/Kg	☼	08/31/20 10:17	09/02/20 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*44 - 135*	*08/31/20 10:17*	*09/02/20 09:59*	*1*
Tetrachloro-m-xylene	*54*		*48 - 122*	*08/31/20 10:17*	*09/02/20 09:59*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	**1.0**	**J B**	26	0.17	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-2	**1.3**	**J B q**	26	0.16	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-3	**5.2**	**J B**	26	0.18	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-4	ND		26	3.4	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-5	ND		26	1.4	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-6	ND		26	1.3	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-7	ND		26	1.4	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-8	ND		26	1.3	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-9	ND		26	1.3	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-10	ND		26	2.8	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-11	**5.1**	**J B q**	26	1.5	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-12/13	ND		51	1.6	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-14	ND		26	1.4	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-15	**6.5**	**J q**	26	1.3	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-16	**1.0**	**J**	26	0.42	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-17	**1.5**	**J**	26	0.40	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-18/30	**3.0**	**J B**	51	0.29	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-19	ND		26	0.43	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-20/28	**17**	**J B**	77	0.74	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-21/33	**4.1**	**J B**	51	0.77	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-22	**3.6**	**J**	26	0.71	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-23	ND		26	0.73	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-24	ND		26	0.30	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-25	ND		26	0.65	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-26/29	**1.4**	**J q**	51	0.74	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-27	ND		26	0.28	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-31	**13**	**J B**	26	0.72	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-32	**1.2**	**J**	26	0.27	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-34	ND		26	0.73	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-35	ND		26	0.79	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-36	ND		26	0.81	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-37	**9.8**	**J**	26	0.79	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-38	ND		26	0.84	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-39	ND		26	0.74	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-40/71	**3.0**	**J**	51	0.31	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-13-SAND LAYER
Lab Sample ID: 580-96897-15
Date Collected: 08/19/20 13:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 75.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-41	ND		26	0.48	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-42	**1.8**	**J**	26	0.35	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-43	ND		26	0.33	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-44/47/65	**7.7**	**J B**	77	0.33	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-45	**1.1**	**J**	26	0.40	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-46	ND		26	0.41	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-48	**1.3**	**J**	26	0.36	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-49/69	**5.0**	**J B**	51	0.29	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-50/53	**0.91**	**J**	51	0.37	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-51	ND		26	0.31	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-52	**7.1**	**J B**	26	0.32	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-54	ND		26	0.22	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-55	ND		26	0.24	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-56	**6.1**	**J**	26	0.27	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-57	ND		26	0.29	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-58	ND		26	0.24	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-59/62/75	**0.78**	**J**	77	0.28	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-60	**3.0**	**J**	26	0.30	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-61/70/74/76	**22**	**J B**	100	0.27	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-63	**0.60**	**J**	26	0.29	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-64	**4.8**	**J B**	26	0.27	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-66	**18**	**J B**	26	0.26	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-67	ND		26	0.23	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-68	ND		26	0.25	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-72	ND		26	0.28	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-73	ND		26	0.25	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-77	**3.7**		2.6	0.35	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-78	ND		26	0.30	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-79	ND		26	0.27	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-80	ND		26	0.24	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-81	ND		2.6	0.38	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-82	ND		26	0.24	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-83	ND		26	0.30	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-84	**1.2**	**J**	26	0.26	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-85/116/117	**1.6**	**J q**	77	0.19	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-86/87/97/108/119/125	**3.5**	**J**	150	0.20	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-88/91	**0.81**	**J q**	51	0.23	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-89	ND		26	0.25	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-90/101/113	**4.5**	**J B**	77	0.21	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-92	**0.73**	**J**	26	0.22	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-93/100	ND		51	0.23	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-107/124	ND		51	0.19	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-94	ND		26	0.25	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-95	**2.9**	**J B**	26	0.23	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-96	ND		26	0.098	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-98/102	ND		51	0.22	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-99	**3.3**	**J**	26	0.19	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-103	ND		26	0.21	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-104	ND		26	0.11	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1

Client Sample ID: ST-13-SAND LAYER
Lab Sample ID: 580-96897-15

Date Collected: 08/19/20 13:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 75.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-105	**3.6**	**J**	5.1	0.18	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-106	ND		26	0.21	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-110/115	**6.8**	**J B**	51	0.17	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-109	**0.46**	**J**	26	0.16	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-111	ND		26	0.17	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-112	ND		26	0.14	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-114	ND		2.6	0.20	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-118	**6.9**	**B**	5.1	0.17	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-120	ND		26	0.15	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-121	ND		26	0.15	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-122	ND		26	0.21	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-123	**0.33**	**J**	2.6	0.20	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-126	ND		2.6	0.20	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-127	ND		26	0.21	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-128/166	**0.64**	**J q**	51	0.21	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-129/138/163	**2.8**	**J B q**	77	0.23	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-130	ND		26	0.28	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-131	ND		26	0.26	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-132	**1.0**	**J**	26	0.26	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-133	ND		26	0.25	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-134/143	ND		51	0.24	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-135/151	ND		51	0.23	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-136	ND		26	0.17	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-137	ND		26	0.24	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-139/140	ND		51	0.22	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-141	ND		26	0.24	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-142	ND		26	0.25	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-144	ND		26	0.21	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-145	ND		26	0.18	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-146	**0.42**	**J q**	26	0.19	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-147/149	**2.2**	**J B**	51	0.22	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-148	ND		26	0.22	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-150	ND		26	0.16	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-152	ND		26	0.17	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-153/168	**2.4**	**J B**	51	0.19	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-154	ND		26	0.21	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-155	ND		26	0.24	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-156/157	ND		5.1	0.73	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-158	ND		26	0.17	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-159	ND		26	0.52	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-160	ND		26	0.21	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-161	ND		26	0.20	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-162	ND		26	0.58	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-164	ND		26	0.20	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-165	ND		26	0.19	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-167	ND		2.6	0.54	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-169	ND		2.6	0.58	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-170	**0.61**	**J q**	26	0.38	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-171/173	ND		51	0.36	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-13-SAND LAYER
Lab Sample ID: 580-96897-15
Date Collected: 08/19/20 13:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 75.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-172	ND		26	0.38	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-174	ND		26	0.34	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-175	ND		26	0.26	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-176	ND		26	0.21	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-177	ND		26	0.33	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-178	ND		26	0.27	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-179	ND		26	0.19	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-180/193	**2.2**	**J B**	51	0.29	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-181	ND		26	0.33	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-182	ND		26	0.26	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-183	**0.50**	**J B q**	26	0.29	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-184	ND		26	0.19	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-185	ND		26	0.37	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-186	ND		26	0.17	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-187	**1.2**	**J q**	26	0.22	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-188	ND		26	0.22	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-189	ND		2.6	0.40	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-190	ND		26	0.24	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-191	ND		26	0.26	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-192	ND		26	0.24	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-194	**0.71**	**J q**	26	0.18	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-195	ND		26	0.18	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-196	**0.32**	**J**	26	0.16	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-197	ND		26	0.11	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-198/199	**0.78**	**J**	51	0.15	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-200	ND		26	0.13	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-201	ND		26	0.13	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-202	**0.34**	**J q**	26	0.13	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-203	ND		26	0.13	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-204	ND		26	0.12	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-205	ND		26	0.15	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-206	**0.98**	**J**	26	0.24	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-207	ND		26	0.16	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-208	**0.34**	**J q**	26	0.15	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1
PCB-209	**1.2**	**J**	26	0.12	pg/g	☼	08/25/20 07:18	09/05/20 21:11	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*53*		*5 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-3L	*54*		*5 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-4L	*53*		*5 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-15L	*67*		*5 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-19L	*51*		*5 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-37L	*86*		*5 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-54L	*69*		*5 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-77L	*87*		*10 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-81L	*86*		*10 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-104L	*61*		*10 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-105L	*89*		*10 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-114L	*84*		*10 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*
PCB-118L	*85*		*10 - 145*	*08/25/20 07:18*	*09/05/20 21:11*	*1*

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-13-SAND LAYER
Lab Sample ID: 580-96897-15
Date Collected: 08/19/20 13:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 75.7

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-123L	83		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-126L	97		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-155L	57		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-156L/157L	99		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-167L	97		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-169L	103		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-188L	79		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-189L	87		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-202L	81		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-205L	94		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-206L	70		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-208L	66		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-209L	70		10 - 145	08/25/20 07:18	09/05/20 21:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	69		5 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-111L	78		10 - 145	08/25/20 07:18	09/05/20 21:11	1
PCB-178L	77		10 - 145	08/25/20 07:18	09/05/20 21:11	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	75.7		0.1	0.1	%			08/20/20 21:25	1
Percent Moisture	24.3		0.1	0.1	%			08/20/20 21:25	1

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: RB-20200819
Lab Sample ID: 580-96897-16
Date Collected: 08/19/20 13:55
Matrix: Water
Date Received: 08/20/20 09:20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.47	0.063	ug/L		08/24/20 15:41	08/26/20 13:52	1
PCB-1221	ND		0.47	0.078	ug/L		08/24/20 15:41	08/26/20 13:52	1
PCB-1232	ND		0.47	0.065	ug/L		08/24/20 15:41	08/26/20 13:52	1
PCB-1242	ND		0.47	0.061	ug/L		08/24/20 15:41	08/26/20 13:52	1
PCB-1248	ND		0.47	0.054	ug/L		08/24/20 15:41	08/26/20 13:52	1
PCB-1254	ND		0.47	0.078	ug/L		08/24/20 15:41	08/26/20 13:52	1
PCB-1260	ND		0.47	0.063	ug/L		08/24/20 15:41	08/26/20 13:52	1
Polychlorinated biphenyls, Total	ND		0.47	0.078	ug/L		08/24/20 15:41	08/26/20 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*35 - 120*	*08/24/20 15:41*	*08/26/20 13:52*	*1*
Tetrachloro-m-xylene	*45*		*29 - 120*	*08/24/20 15:41*	*08/26/20 13:52*	*1*

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00027**	**J**	0.0010	0.00020	mg/L		08/20/20 15:07	08/21/20 13:29	1
Cadmium	ND		0.00080	0.00010	mg/L		08/20/20 15:07	08/21/20 13:29	1
Copper	**0.0052**		0.0020	0.00060	mg/L		08/20/20 15:07	08/21/20 13:29	1
Lead	ND		0.00080	0.00020	mg/L		08/20/20 15:07	08/21/20 13:29	1
Zinc	**0.0021**	**J B**	0.0070	0.0019	mg/L		08/20/20 15:07	08/21/20 13:29	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 580-336520/1-A
Matrix: Water
Analysis Batch: 336695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336520

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.45	0.061	ug/L		08/24/20 15:41	08/26/20 12:41	1
PCB-1221	ND		0.45	0.075	ug/L		08/24/20 15:41	08/26/20 12:41	1
PCB-1232	ND		0.45	0.063	ug/L		08/24/20 15:41	08/26/20 12:41	1
PCB-1242	ND		0.45	0.059	ug/L		08/24/20 15:41	08/26/20 12:41	1
PCB-1248	ND		0.45	0.052	ug/L		08/24/20 15:41	08/26/20 12:41	1
PCB-1254	ND		0.45	0.075	ug/L		08/24/20 15:41	08/26/20 12:41	1
PCB-1260	ND		0.45	0.061	ug/L		08/24/20 15:41	08/26/20 12:41	1
Polychlorinated biphenyls, Total	ND		0.45	0.075	ug/L		08/24/20 15:41	08/26/20 12:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*35 - 120*	*08/24/20 15:41*	*08/26/20 12:41*	*1*
Tetrachloro-m-xylene	*55*		*29 - 120*	*08/24/20 15:41*	*08/26/20 12:41*	*1*

Lab Sample ID: LCS 580-336520/2-A
Matrix: Water
Analysis Batch: 336695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336520

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			1.00	1.02		ug/L		102	50 - 120		
PCB-1260			1.00	0.746		ug/L		75	56 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*93*		*35 - 120*
Tetrachloro-m-xylene	*56*		*29 - 120*

Lab Sample ID: LCSD 580-336520/3-A
Matrix: Water
Analysis Batch: 336695

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 336520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			1.00	1.09		ug/L		109	50 - 120	7	18
PCB-1260			1.00	0.810		ug/L		81	56 - 120	8	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*98*		*35 - 120*
Tetrachloro-m-xylene	*56*		*29 - 120*

Lab Sample ID: MB 580-337120/1-A
Matrix: Solid
Analysis Batch: 337291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 337120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.0	0.74	ug/Kg		08/31/20 10:17	09/02/20 04:39	1
PCB-1221	ND		2.0	0.42	ug/Kg		08/31/20 10:17	09/02/20 04:39	1
PCB-1232	ND		2.0	0.49	ug/Kg		08/31/20 10:17	09/02/20 04:39	1
PCB-1242	ND		2.0	0.35	ug/Kg		08/31/20 10:17	09/02/20 04:39	1
PCB-1248	ND		2.0	0.29	ug/Kg		08/31/20 10:17	09/02/20 04:39	1
PCB-1254	ND		2.0	0.37	ug/Kg		08/31/20 10:17	09/02/20 04:39	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 580-337120/1-A
Matrix: Solid
Analysis Batch: 337291

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 337120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		2.0	0.74	ug/Kg		08/31/20 10:17	09/02/20 04:39	1
Polychlorinated biphenyls, Total	ND		2.0	0.74	ug/Kg		08/31/20 10:17	09/02/20 04:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*44 - 135*	*08/31/20 10:17*	*09/02/20 04:39*	*1*
Tetrachloro-m-xylene	*63*		*48 - 122*	*08/31/20 10:17*	*09/02/20 04:39*	*1*

Lab Sample ID: LCS 580-337120/2-A
Matrix: Solid
Analysis Batch: 337291

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 337120

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			50.0	43.4		ug/Kg		87	55 - 132		
PCB-1260			50.0	41.9		ug/Kg		84	54 - 126		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*109*		*44 - 135*
Tetrachloro-m-xylene	*72*		*48 - 122*

Lab Sample ID: 580-96897-1 MS
Matrix: Solid
Analysis Batch: 337291

Client Sample ID: ST-01-SURFACE GRAB
Prep Type: Total/NA
Prep Batch: 337120

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	ND		86.6	82.7		ug/Kg	☼	96	55 - 132		
PCB-1260	ND		86.6	63.8		ug/Kg	☼	74	54 - 126		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*86*		*44 - 135*
Tetrachloro-m-xylene	*71*		*48 - 122*

Lab Sample ID: 580-96897-1 MSD
Matrix: Solid
Analysis Batch: 337291

Client Sample ID: ST-01-SURFACE GRAB
Prep Type: Total/NA
Prep Batch: 337120

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		87.2	92.8		ug/Kg	☼	106	55 - 132	12	33
PCB-1260	ND		87.2	72.7		ug/Kg	☼	83	54 - 126	8	13

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*96*		*44 - 135*
Tetrachloro-m-xylene	*78*		*48 - 122*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Lab Sample ID: MB 320-406298/1-A
Matrix: Solid
Analysis Batch: 408853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 406298

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1	2.35	J	20	0.21	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-2	5.55	J	20	0.19	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-3	26.3		20	0.23	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-4	ND		20	4.9	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-5	ND		20	2.3	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-6	ND		20	2.1	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-7	ND		20	2.2	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-8	ND		20	2.0	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-9	ND		20	2.1	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-10	ND		20	4.1	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-11	5.68	J	20	2.5	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-12/13	ND		40	2.6	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-14	ND		20	2.3	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-15	ND		20	2.1	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-16	ND		20	0.39	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-17	ND		20	0.36	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-18/30	0.484	J	40	0.27	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-19	ND		20	0.32	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-20/28	0.840	J	60	0.28	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-21/33	0.556	J	40	0.29	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-22	ND		20	0.27	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-23	ND		20	0.27	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-24	ND		20	0.28	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-25	ND		20	0.24	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-26/29	ND		40	0.28	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-27	ND		20	0.26	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-31	0.744	J	20	0.27	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-32	ND		20	0.25	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-34	ND		20	0.27	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-35	ND		20	0.30	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-36	ND		20	0.30	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-37	ND		20	0.35	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-38	ND		20	0.32	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-39	ND		20	0.28	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-40/71	ND		40	0.18	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-41	ND		20	0.28	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-42	ND		20	0.20	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-43	ND		20	0.19	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-44/47/65	1.11	J	60	0.19	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-45	ND		20	0.23	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-46	ND		20	0.24	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-48	ND		20	0.21	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-49/69	0.258	J	40	0.17	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-50/53	ND		40	0.21	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-51	ND		20	0.18	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-52	0.598	J	20	0.18	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-54	ND		20	0.11	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-55	ND		20	0.14	pg/g		08/25/20 07:18	09/02/20 13:22	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-406298/1-A
Matrix: Solid
Analysis Batch: 408853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 406298

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-56	ND		20	0.15	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-57	ND		20	0.16	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-58	ND		20	0.13	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-59/62/75	ND		60	0.16	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-60	ND		20	0.17	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-61/70/74/76	0.718	J q	80	0.15	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-63	ND		20	0.16	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-64	0.268	J	20	0.15	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-66	0.475	J	20	0.14	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-67	ND		20	0.13	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-68	ND		20	0.14	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-72	ND		20	0.16	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-73	ND		20	0.14	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-77	ND		2.0	0.22	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-78	ND		20	0.16	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-79	ND		20	0.15	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-80	ND		20	0.14	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-81	ND		2.0	0.24	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-82	ND		20	0.30	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-83	ND		20	0.38	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-84	ND		20	0.33	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-85/116/117	ND		60	0.24	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-86/87/97/108/119/125	ND		120	0.25	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-88/91	ND		40	0.29	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-89	ND		20	0.31	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-90/101/113	0.538	J	60	0.26	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-92	ND		20	0.27	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-93/100	ND		40	0.28	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-107/124	ND		40	0.24	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-94	ND		20	0.31	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-95	0.518	J	20	0.28	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-96	ND		20	0.15	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-98/102	ND		40	0.27	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-99	ND		20	0.24	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-103	ND		20	0.25	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-104	ND		20	0.12	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-105	ND		4.0	0.24	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-106	ND		20	0.26	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-110/115	0.507	J	40	0.21	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-109	ND		20	0.20	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-111	ND		20	0.21	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-112	ND		20	0.18	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-114	ND		2.0	0.27	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-118	0.329	J q	4.0	0.24	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-120	ND		20	0.19	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-121	ND		20	0.19	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-122	ND		20	0.26	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-123	ND		2.0	0.27	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-126	ND		2.0	0.30	pg/g		08/25/20 07:18	09/02/20 13:22	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-406298/1-A
Matrix: Solid
Analysis Batch: 408853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 406298

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-127	ND		20	0.26	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-128/166	ND		40	0.090	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-129/138/163	0.334	J	60	0.096	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-130	ND		20	0.12	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-131	ND		20	0.11	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-132	ND		20	0.11	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-133	ND		20	0.10	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-134/143	ND		40	0.10	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-135/151	0.218	J	40	0.097	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-136	ND		20	0.071	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-137	ND		20	0.10	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-139/140	ND		40	0.094	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-141	ND		20	0.10	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-142	ND		20	0.11	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-144	ND		20	0.090	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-145	ND		20	0.075	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-146	ND		20	0.080	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-147/149	0.328	J	40	0.093	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-148	ND		20	0.094	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-150	ND		20	0.069	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-152	ND		20	0.074	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-153/168	0.319	J	40	0.078	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-154	ND		20	0.088	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-155	ND		20	0.084	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-156/157	ND		4.0	0.086	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-158	ND		20	0.071	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-159	ND		20	0.058	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-160	ND		20	0.087	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-161	ND		20	0.083	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-162	ND		20	0.065	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-164	ND		20	0.085	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-165	ND		20	0.079	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-167	ND		2.0	0.064	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-169	ND		2.0	0.067	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-170	ND		20	0.092	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-171/173	ND		40	0.088	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-172	ND		20	0.093	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-174	0.128	J	20	0.083	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-175	ND		20	0.090	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-176	ND		20	0.074	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-177	ND		20	0.082	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-178	ND		20	0.096	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-179	ND		20	0.065	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-180/193	0.368	J	40	0.070	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-181	ND		20	0.080	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-182	ND		20	0.091	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-183	0.183	J	20	0.070	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-184	ND		20	0.068	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-185	ND		20	0.089	pg/g		08/25/20 07:18	09/02/20 13:22	1

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-406298/1-A
Matrix: Solid
Analysis Batch: 408853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 406298

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-186	ND		20	0.061	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-187	ND		20	0.078	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-188	ND		20	0.093	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-189	ND		2.0	0.10	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-190	ND		20	0.059	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-191	ND		20	0.063	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-192	ND		20	0.058	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-194	ND		20	0.10	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-195	ND		20	0.10	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-196	ND		20	0.071	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-197	ND		20	0.047	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-198/199	ND		40	0.067	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-200	ND		20	0.058	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-201	ND		20	0.057	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-202	ND		20	0.059	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-203	ND		20	0.060	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-204	ND		20	0.052	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-205	ND		20	0.085	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-206	ND		20	0.12	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-207	ND		20	0.085	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-208	ND		20	0.087	pg/g		08/25/20 07:18	09/02/20 13:22	1
PCB-209	ND		20	0.12	pg/g		08/25/20 07:18	09/02/20 13:22	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
PCB-1L	*53*		*5 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-3L	*55*		*5 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-4L	*54*		*5 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-15L	*61*		*5 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-19L	*59*		*5 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-37L	*71*		*5 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-54L	*80*		*5 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-77L	*72*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-81L	*71*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-104L	*66*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-105L	*67*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-114L	*66*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-118L	*65*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-123L	*64*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-126L	*70*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-155L	*59*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-156L/157L	*82*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-167L	*81*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-169L	*90*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-188L	*67*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-189L	*99*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-202L	*70*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-205L	*77*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-206L	*74*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*
PCB-208L	*64*		*10 - 145*	*08/25/20 07:18*	*09/02/20 13:22*	*1*

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-406298/1-A
Matrix: Solid
Analysis Batch: 408853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 406298

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-209L	54		10 - 145	08/25/20 07:18	09/02/20 13:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
PCB-28L	67		5 - 145	08/25/20 07:18	09/02/20 13:22	1
PCB-111L	67		10 - 145	08/25/20 07:18	09/02/20 13:22	1
PCB-178L	69		10 - 145	08/25/20 07:18	09/02/20 13:22	1

Lab Sample ID: LCS 320-406298/2-A
Matrix: Solid
Analysis Batch: 408005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 406298

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1	200	226		pg/g		113	60 - 135
PCB-3	200	251		pg/g		126	60 - 135
PCB-4	200	155		pg/g		78	60 - 135
PCB-15	200	194		pg/g		97	60 - 135
PCB-19	200	169		pg/g		84	60 - 135
PCB-37	200	223		pg/g		111	60 - 135
PCB-54	200	183		pg/g		92	60 - 135
PCB-77	200	237		pg/g		118	60 - 135
PCB-81	200	259		pg/g		130	60 - 135
PCB-104	200	176		pg/g		88	60 - 135
PCB-105	200	191		pg/g		96	60 - 135
PCB-114	200	211		pg/g		105	60 - 135
PCB-118	200	201		pg/g		101	60 - 135
PCB-123	200	225		pg/g		112	60 - 135
PCB-126	200	201		pg/g		101	60 - 135
PCB-155	200	195		pg/g		97	60 - 135
PCB-156/157	400	425		pg/g		106	60 - 135
PCB-167	200	224		pg/g		112	60 - 135
PCB-169	200	214		pg/g		107	60 - 135
PCB-188	200	192		pg/g		96	60 - 135
PCB-189	200	244		pg/g		122	60 - 135
PCB-202	200	212		pg/g		106	60 - 135
PCB-205	200	226		pg/g		113	60 - 135
PCB-206	200	196		pg/g		98	60 - 135
PCB-208	200	191		pg/g		96	60 - 135
PCB-209	200	198		pg/g		99	60 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-1L	55		15 - 145
PCB-3L	57		15 - 145
PCB-4L	53		15 - 145
PCB-15L	59		15 - 145
PCB-19L	56		15 - 145
PCB-37L	69		15 - 145
PCB-54L	83		15 - 145
PCB-77L	67		40 - 145

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-406298/2-A
Matrix: Solid
Analysis Batch: 408005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 406298

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
PCB-81L	66		40 - 145
PCB-104L	83		40 - 145
PCB-105L	67		40 - 145
PCB-114L	65		40 - 145
PCB-118L	65		40 - 145
PCB-123L	63		40 - 145
PCB-126L	72		40 - 145
PCB-155L	61		40 - 145
PCB-156L/157L	80		40 - 145
PCB-167L	77		40 - 145
PCB-169L	87		40 - 145
PCB-188L	68		40 - 145
PCB-189L	100		40 - 145
PCB-202L	76		40 - 145
PCB-205L	83		40 - 145
PCB-206L	70	q	40 - 145
PCB-208L	62	q	40 - 145
PCB-209L	62		40 - 145

Surrogate	LCS %Recovery	LCS Qualifier	Limits
PCB-28L	66		15 - 145
PCB-111L	66		40 - 145
PCB-178L	68		40 - 145

Lab Sample ID: LCSD 320-406298/3-A
Matrix: Solid
Analysis Batch: 408005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 406298

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1			200	230		pg/g		115	60 - 135	2	50
PCB-3			200	252		pg/g		126	60 - 135	0	50
PCB-4			200	155		pg/g		77	60 - 135	0	50
PCB-15			200	196		pg/g		98	60 - 135	1	50
PCB-19			200	171		pg/g		85	60 - 135	1	50
PCB-37			200	226		pg/g		113	60 - 135	1	50
PCB-54			200	183		pg/g		92	60 - 135	0	50
PCB-77			200	243		pg/g		121	60 - 135	2	50
PCB-81			200	262		pg/g		131	60 - 135	1	50
PCB-104			200	177		pg/g		89	60 - 135	1	50
PCB-105			200	190		pg/g		95	60 - 135	1	50
PCB-114			200	214		pg/g		107	60 - 135	1	50
PCB-118			200	205		pg/g		103	60 - 135	2	50
PCB-123			200	222		pg/g		111	60 - 135	1	50
PCB-126			200	205		pg/g		102	60 - 135	2	50
PCB-155			200	198		pg/g		99	60 - 135	2	50
PCB-156/157			400	430		pg/g		107	60 - 135	1	50
PCB-167			200	225		pg/g		113	60 - 135	1	50
PCB-169			200	216		pg/g		108	60 - 135	1	50

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Lab Sample ID: LCSD 320-406298/3-A
Matrix: Solid
Analysis Batch: 408005

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 406298

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-188			200	195		pg/g		97	60 - 135	2	50
PCB-189			200	246		pg/g		123	60 - 135	1	50
PCB-202			200	216		pg/g		108	60 - 135	2	50
PCB-205			200	226		pg/g		113	60 - 135	0	50
PCB-206			200	199		pg/g		100	60 - 135	2	50
PCB-208			200	192		pg/g		96	60 - 135	0	50
PCB-209			200	197		pg/g		99	60 - 135	0	50

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
PCB-1L	*49*		*15 - 145*
PCB-3L	*49*		*15 - 145*
PCB-4L	*48*		*15 - 145*
PCB-15L	*50*		*15 - 145*
PCB-19L	*49*		*15 - 145*
PCB-37L	*60*		*15 - 145*
PCB-54L	*75*		*15 - 145*
PCB-77L	*59*		*40 - 145*
PCB-81L	*59*		*40 - 145*
PCB-104L	*72*		*40 - 145*
PCB-105L	*63*		*40 - 145*
PCB-114L	*60*		*40 - 145*
PCB-118L	*59*		*40 - 145*
PCB-123L	*59*		*40 - 145*
PCB-126L	*66*		*40 - 145*
PCB-155L	*35*	**5*	*40 - 145*
PCB-156L/157L	*77*		*40 - 145*
PCB-167L	*76*		*40 - 145*
PCB-169L	*82*		*40 - 145*
PCB-188L	*44*		*40 - 145*
PCB-189L	*99*		*40 - 145*
PCB-202L	*53*		*40 - 145*
PCB-205L	*80*		*40 - 145*
PCB-206L	*55*	*q*	*40 - 145*
PCB-208L	*33*	**5 q*	*40 - 145*
PCB-209L	*27*	**5*	*40 - 145*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
PCB-28L	*57*		*15 - 145*
PCB-111L	*60*		*40 - 145*
PCB-178L	*64*		*40 - 145*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 580-336199/14-A
Matrix: Water
Analysis Batch: 336433

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 336199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.0010	0.00020	mg/L		08/20/20 15:07	08/21/20 12:28	1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 580-336199/14-A
Matrix: Water
Analysis Batch: 336433

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 336199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.00080	0.00010	mg/L		08/20/20 15:07	08/21/20 12:28	1
Copper	ND		0.0020	0.00060	mg/L		08/20/20 15:07	08/21/20 12:28	1
Lead	ND		0.00080	0.00020	mg/L		08/20/20 15:07	08/21/20 12:28	1
Zinc	0.00301	J	0.0070	0.0019	mg/L		08/20/20 15:07	08/21/20 12:28	1

Lab Sample ID: LCS 580-336199/15-A
Matrix: Water
Analysis Batch: 336433

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 336199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.01		mg/L		101	80 - 120
Cadmium	1.00	0.999		mg/L		100	80 - 120
Copper	1.00	1.02		mg/L		102	80 - 120
Lead	1.00	0.999		mg/L		100	80 - 120
Zinc	1.00	1.04		mg/L		104	80 - 120

Lab Sample ID: LCSD 580-336199/16-A
Matrix: Water
Analysis Batch: 336433

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 336199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.00	1.00		mg/L		100	80 - 120	1	20
Cadmium	1.00	1.00		mg/L		100	80 - 120	0	20
Copper	1.00	1.01		mg/L		101	80 - 120	1	20
Lead	1.00	0.995		mg/L		100	80 - 120	0	20
Zinc	1.00	1.02		mg/L		102	80 - 120	2	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 580-336509/20-A
Matrix: Solid
Analysis Batch: 336679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.25	0.050	mg/Kg		08/24/20 14:16	08/25/20 12:44	5
Cadmium	ND		0.40	0.039	mg/Kg		08/24/20 14:16	08/25/20 12:44	5
Copper	ND		0.50	0.11	mg/Kg		08/24/20 14:16	08/25/20 12:44	5
Lead	ND		0.25	0.024	mg/Kg		08/24/20 14:16	08/25/20 12:44	5
Zinc	ND		2.6	0.81	mg/Kg		08/24/20 14:16	08/25/20 12:44	5

Lab Sample ID: LCS 580-336509/21-A
Matrix: Solid
Analysis Batch: 336679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	53.3		mg/Kg		107	80 - 120
Cadmium	50.0	49.2		mg/Kg		98	80 - 120
Copper	50.0	53.9		mg/Kg		108	80 - 120
Lead	50.0	51.1		mg/Kg		102	80 - 120
Zinc	50.0	51.0		mg/Kg		102	80 - 120

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCSD 580-336509/22-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 336679
Prep Batch: 336509

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic			50.0	52.6		mg/Kg		105	80 - 120	1	20
Cadmium			50.0	49.3		mg/Kg		99	80 - 120	0	20
Copper			50.0	53.4		mg/Kg		107	80 - 120	1	20
Lead			50.0	51.4		mg/Kg		103	80 - 120	1	20
Zinc			50.0	51.7		mg/Kg		103	80 - 120	1	20

Lab Chronicle

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-01-SURFACE GRAB
Lab Sample ID: 580-96897-1
Date Collected: 08/18/20 11:00
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-01-SURFACE GRAB
Lab Sample ID: 580-96897-1
Date Collected: 08/18/20 11:00
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 55.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 05:14	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	408005	08/31/20 06:19	KSS	TAL SAC
Total/NA	Prep	3050B			336509	08/24/20 14:16	ART	TAL SEA
Total/NA	Analysis	6020B		5	336679	08/25/20 13:53	FCW	TAL SEA

Client Sample ID: ST-02-SURFACE GRAB
Lab Sample ID: 580-96897-2
Date Collected: 08/18/20 11:28
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-02-SURFACE GRAB
Lab Sample ID: 580-96897-2
Date Collected: 08/18/20 11:28
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 68.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 06:08	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	408005	08/31/20 07:34	KSS	TAL SAC
Total/NA	Prep	3050B			336509	08/24/20 14:16	ART	TAL SEA
Total/NA	Analysis	6020B		5	336679	08/25/20 13:56	FCW	TAL SEA

Client Sample ID: ST-03-SURFACE GRAB
Lab Sample ID: 580-96897-3
Date Collected: 08/18/20 11:55
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Lab Chronicle

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-03-SURFACE GRAB
Lab Sample ID: 580-96897-3
Date Collected: 08/18/20 11:55
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 06:26	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	408005	08/31/20 08:49	KSS	TAL SAC
Total/NA	Prep	3050B			336509	08/24/20 14:16	ART	TAL SEA
Total/NA	Analysis	6020B		5	336679	08/25/20 14:00	FCW	TAL SEA

Client Sample ID: ST-04-SURFACE GRAB
Lab Sample ID: 580-96897-4
Date Collected: 08/18/20 12:30
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-04-SURFACE GRAB
Lab Sample ID: 580-96897-4
Date Collected: 08/18/20 12:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 06:43	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	408005	08/31/20 10:04	KSS	TAL SAC
Total/NA	Prep	3050B			336509	08/24/20 14:16	ART	TAL SEA
Total/NA	Analysis	6020B		5	336679	08/25/20 14:04	FCW	TAL SEA

Client Sample ID: ST-11-SAND LAYER
Lab Sample ID: 580-96897-5
Date Collected: 08/18/20 14:00
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-11-SAND LAYER
Lab Sample ID: 580-96897-5
Date Collected: 08/18/20 14:00
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 07:01	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	408006	08/31/20 16:17	KSS	TAL SAC

Client Sample ID: ST-05-SURFACE GRAB
Lab Sample ID: 580-96897-6
Date Collected: 08/18/20 14:25
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-05-SURFACE GRAB
Lab Sample ID: 580-96897-6
Date Collected: 08/18/20 14:25
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 73.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 07:19	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	408006	08/31/20 17:32	KSS	TAL SAC
Total/NA	Prep	3050B			336509	08/24/20 14:16	ART	TAL SEA
Total/NA	Analysis	6020B		5	336679	08/25/20 16:05	FCW	TAL SEA

Client Sample ID: ST-12-COAL LAYER
Lab Sample ID: 580-96897-7
Date Collected: 08/18/20 15:05
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-12-COAL LAYER
Lab Sample ID: 580-96897-7
Date Collected: 08/18/20 15:05
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 61.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 07:37	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		5	409322	09/03/20 12:13	KSS	TAL SAC

Client Sample ID: DUPLICATE-1
Lab Sample ID: 580-96897-8
Date Collected: 08/19/20 07:30
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: DUPLICATE-1
Lab Sample ID: 580-96897-8
Date Collected: 08/19/20 07:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 07:55	TL1	TAL SEA

Lab Chronicle

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: DUPLICATE-1
Lab Sample ID: 580-96897-8
Date Collected: 08/19/20 07:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	408006	08/31/20 22:07	KSS	TAL SAC
Total/NA	Prep	3050B			336509	08/24/20 14:16	ART	TAL SEA
Total/NA	Analysis	6020B		5	336679	08/25/20 16:09	FCW	TAL SEA

Client Sample ID: ST-10-SURFACE GRAB
Lab Sample ID: 580-96897-9
Date Collected: 08/19/20 08:45
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-10-SURFACE GRAB
Lab Sample ID: 580-96897-9
Date Collected: 08/19/20 08:45
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 28.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 08:12	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		5	409322	09/03/20 13:28	KSS	TAL SAC
Total/NA	Prep	3050B			336509	08/24/20 14:16	ART	TAL SEA
Total/NA	Analysis	6020B		5	336679	08/25/20 16:13	FCW	TAL SEA

Client Sample ID: ST-15-COAL LAYER
Lab Sample ID: 580-96897-10
Date Collected: 08/19/20 09:40
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-15-COAL LAYER
Lab Sample ID: 580-96897-10
Date Collected: 08/19/20 09:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 62.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 08:30	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	411953	09/14/20 13:17	KSS	TAL SAC
Total/NA	Prep	HRMS-Sox	DL		406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C	DL	5	411953	09/14/20 15:58	KSS	TAL SAC

Client Sample ID: ST-08-SURFACE GRAB
Lab Sample ID: 580-96897-11
Date Collected: 08/19/20 10:15
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-08-SURFACE GRAB
Lab Sample ID: 580-96897-11
Date Collected: 08/19/20 10:15
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 08:48	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	411953	09/14/20 14:32	KSS	TAL SAC
Total/NA	Prep	3050B			336509	08/24/20 14:16	ART	TAL SEA
Total/NA	Analysis	6020B		5	336679	08/25/20 16:16	FCW	TAL SEA

Client Sample ID: ST-14-COAL LAYER
Lab Sample ID: 580-96897-12
Date Collected: 08/19/20 11:10
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-14-COAL LAYER
Lab Sample ID: 580-96897-12
Date Collected: 08/19/20 11:10
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 64.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 09:06	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		5	409872	09/06/20 16:11	KSS	TAL SAC

Client Sample ID: ST-06-SURFACE GRAB
Lab Sample ID: 580-96897-13
Date Collected: 08/19/20 12:05
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-06-SURFACE GRAB
Lab Sample ID: 580-96897-13
Date Collected: 08/19/20 12:05
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 71.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 09:24	TL1	TAL SEA

Lab Chronicle

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-06-SURFACE GRAB
Lab Sample ID: 580-96897-13
Date Collected: 08/19/20 12:05
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 71.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	409326	09/05/20 18:40	KSS	TAL SAC
Total/NA	Prep	3050B			336509	08/24/20 14:16	ART	TAL SEA
Total/NA	Analysis	6020B		5	336679	08/25/20 16:20	FCW	TAL SEA

Client Sample ID: ST-13-COAL LAYER
Lab Sample ID: 580-96897-14
Date Collected: 08/19/20 13:30
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-13-COAL LAYER
Lab Sample ID: 580-96897-14
Date Collected: 08/19/20 13:30
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 69.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 09:42	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	409326	09/05/20 19:56	KSS	TAL SAC
Total/NA	Prep	HRMS-Sox	DL		406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C	DL	5	409872	09/06/20 17:26	KSS	TAL SAC

Client Sample ID: ST-13-SAND LAYER
Lab Sample ID: 580-96897-15
Date Collected: 08/19/20 13:40
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1	336236	08/20/20 21:25	HBP	TAL SEA

Client Sample ID: ST-13-SAND LAYER
Lab Sample ID: 580-96897-15
Date Collected: 08/19/20 13:40
Matrix: Solid
Date Received: 08/20/20 09:20
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			337120	08/31/20 10:17	ZKH	TAL SEA
Total/NA	Analysis	8082A		1	337291	09/02/20 09:59	TL1	TAL SEA
Total/NA	Prep	HRMS-Sox			406298	08/25/20 07:18	FC	TAL SAC
Total/NA	Analysis	1668C		1	409326	09/05/20 21:11	KSS	TAL SAC

Lab Chronicle

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: RB-20200819
Date Collected: 08/19/20 13:55
Date Received: 08/20/20 09:20

Lab Sample ID: 580-96897-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			336520	08/24/20 15:41	S1S	TAL SEA
Total/NA	Analysis	8082A		1	336695	08/26/20 13:52	T1W	TAL SEA
Total Recoverable	Prep	3005A			336199	08/20/20 15:07	ART	TAL SEA
Total Recoverable	Analysis	6020		1	336433	08/21/20 13:29	FCW	TAL SEA

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Laboratory: Eurofins TestAmerica, Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids
6020	3005A	Water	Arsenic
6020	3005A	Water	Cadmium
6020	3005A	Water	Copper
6020	3005A	Water	Lead
6020	3005A	Water	Zinc
8082A	3510C	Water	Polychlorinated biphenyls, Total
8082A	3546	Solid	Polychlorinated biphenyls, Total

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Washington	State	C581	05-05-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1668C	HRMS-Sox	Solid	PCB-134/143
1668C	HRMS-Sox	Solid	PCB-86/87/97/108/119/125

Sample Summary

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-96897-1	ST-01-SURFACE GRAB	Solid	08/18/20 11:00	08/20/20 09:20	
580-96897-2	ST-02-SURFACE GRAB	Solid	08/18/20 11:28	08/20/20 09:20	
580-96897-3	ST-03-SURFACE GRAB	Solid	08/18/20 11:55	08/20/20 09:20	
580-96897-4	ST-04-SURFACE GRAB	Solid	08/18/20 12:30	08/20/20 09:20	
580-96897-5	ST-11-SAND LAYER	Solid	08/18/20 14:00	08/20/20 09:20	
580-96897-6	ST-05-SURFACE GRAB	Solid	08/18/20 14:25	08/20/20 09:20	
580-96897-7	ST-12-COAL LAYER	Solid	08/18/20 15:05	08/20/20 09:20	
580-96897-8	DUPLICATE-1	Solid	08/19/20 07:30	08/20/20 09:20	
580-96897-9	ST-10-SURFACE GRAB	Solid	08/19/20 08:45	08/20/20 09:20	
580-96897-10	ST-15-COAL LAYER	Solid	08/19/20 09:40	08/20/20 09:20	
580-96897-11	ST-08-SURFACE GRAB	Solid	08/19/20 10:15	08/20/20 09:20	
580-96897-12	ST-14-COAL LAYER	Solid	08/19/20 11:10	08/20/20 09:20	
580-96897-13	ST-06-SURFACE GRAB	Solid	08/19/20 12:05	08/20/20 09:20	
580-96897-14	ST-13-COAL LAYER	Solid	08/19/20 13:30	08/20/20 09:20	
580-96897-15	ST-13-SAND LAYER	Solid	08/19/20 13:40	08/20/20 09:20	
580-96897-16	RB-20200819	Water	08/19/20 13:55	08/20/20 09:20	

TestAmerica
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TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
DH Environmental	Nathan Moxley	8/20/2020	39510
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 2
1011 SW Klickitat Way, #107	509-332-9281		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Seattle / WA / 98134	N. Moxley	Ashley Worthy	
Project Name and Location (State)	**Billing Contact**		
Upriver Dam Sediment Sampling, Spokane, WA	N. Moxley		
Contract/Purchase Order/Quote No.			
58014958			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	PCBs (8082A)	PCBs (1668C)	Metals * (6020A)
ST-01-Surface Grab	8/18/2020	1100			X		3						X	X	X
ST-02-Surface Grab		1128													
ST-03-Surface Grab		1155													
ST-04-Surface Grab		1230													
ST-11-Sand layer		1400					2						X	X	
ST-05-Surface Grab		1425					3						X	X	X
ST-12-coal layer		1505					2						X	X	
Duplicate-1	8/19/2020	0730					3						X	X	X
ST-10-Surface Grab		0845					3						X	X	X
ST-15-Coal layer		0940					2						X	X	
ST-08-Surface Grab		1015					3						X	X	X
ST-14-Coal layer		1110					2						X	X	

580-96897 Chain of Custody

Therm. ID: IR4 Cor: 4.5° Unc: 5.0°
Cooler Dsc: Lg
Packing: Bub
Cust. Seal: Yes ___ No ✓
Blue Ice, Wet, Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: Clidrs

Cooler
☐ Yes ☐ No Cooler Temp: ___

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☒ Archive For 1 Months
(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days)
☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☒ 15 Days ☐ Other ___

QC Requirements (Specify)

	Relinquished By Sign/Print	Date	Time	Received By Sign/Print	Date	Time
1.	Nathan Moxley, DH Environmental	8/20/2020	0920		8/20/20	0920
2.						
3.						

Comments
1) * Metals include: As, Cd, Cu, Pb, Zn 2) Please hold remaining sample volume for possible follow-up analysis 3) Please provide WA State EIM Compatible EDD

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

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TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
DH Environmental	Nathan Moxley		39509
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 2 of 2
1011 SW Klickitat Way, #107	509-332-9281		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Seattle / WA / 98134	N. Moxley	Ashley Worthy	
Project Name and Location (State)	**Billing Contact**		
Upriver Dam Sediment Sampling, Spokane, WA	N. Moxley		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: PCBs (8082A)	PCBs (1668c)	Metals* (6020A)	Special Instructions/ Conditions of Receipt
ST-06 - Surface Grab	8/19/2020	1205			X		3						X	X	X	
ST-13 - coal layer	↓	1330			↓		2						X	X		
ST-13 - sand layer		1340					2						X	X		
RB - 20200819		1355		X			2		1				X		X	

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☒ Archive For 1 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☒ 15 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Nathan Moxley, DH Environmental	8/20/2020	0920	1. Received By Sign/Print:	8/20/20	0920
2. Relinquished By Sign/Print:			2. Received By Sign/Print:		
3. Relinquished By Sign/Print:			3. Received By Sign/Print:		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-5 (0716) 9/16/2020

Eurofins TestAmerica, Seattle

5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Worthy, Ashley L	Carrier Tracking No(s):	COC No: 580-79878.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Ashley.Worthy@Eurofinset.com	State of Origin: Washington	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Washington		Job #: 580-96897-1
Address: 880 Riverside Parkway,	Due Date Requested: 9/1/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Upriver Dam Sediment Sampling, Spokane WA	Project #: 58015321			
Site:	SSOW#:			

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1668C/HRMS_Sox_P Full List (209 Comb/Coel)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
ST-01-SURFACE GRAB (580-96897-1)	8/18/20	11:00 Pacific		Solid			X	1	
ST-02-SURFACE GRAB (580-96897-2)	8/18/20	11:28 Pacific		Solid			X	1	
ST-03-SURFACE GRAB (580-96897-3)	8/18/20	11:55 Pacific		Solid			X	1	
ST-04-SURFACE GRAB (580-96897-4)	8/18/20	12:30 Pacific		Solid			X	1	
ST-11-SAND LAYER (580-96897-5)	8/18/20	14:00 Pacific		Solid			X	1	
ST-05-SURFACE GRAB (580-96897-6)	8/18/20	14:25 Pacific		Solid			X	1	
ST-12-COAL LAYER (580-96897-7)	8/18/20	15:05 Pacific		Solid			X	1	
DUPLICATE-1 (580-96897-8)	8/19/20	07:30 Pacific		Solid			X	1	
ST-10-SURFACE GRAB (580-96897-9)	8/19/20	08:45 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 2
Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
Relinquished by: [signature]	Date/Time: 8.21.20	Company: TASea	Received by: [signature]	Date/Time: 08/22/20 09:00	Company: ETA-SAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: ✓ Yes Δ No	Custody Seal No.: 483831		Cooler Temperature(s) °C and Other Remarks: OB: 0.6 CORR: 1.0		

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone: 253-922-2310 Fax: 253-922-5047

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Worthy, Ashley L	Carrier Tracking No(s):	COC No: 580-79878.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Ashley.Worthy@Eurofinset.com	State of Origin: Washington	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State - Washington		Job #: 580-96897-1
Address: 880 Riverside Parkway,	Due Date Requested: 9/1/2020			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Upriver Dam Sediment Sampling, Spokane WA	Project #: 58015321			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	1668C/HRMS_Sox_P Full List (209 Comb/Coel)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
ST-15-COAL LAYER (580-96897-10)	8/19/20	09:40 Pacific		Solid			X	1	
ST-08-SURFACE GRAB (580-96897-11)	8/19/20	10:15 Pacific		Solid			X	1	
ST-14-COAL LAYER (580-96897-12)	8/19/20	11:10 Pacific		Solid			X	1	
ST-06-SURFACE GRAB (580-96897-13)	8/19/20	12:05 Pacific		Solid			X	1	
ST-13-COAL LAYER (580-96897-14)	8/19/20	13:30 Pacific		Solid			X	1	
ST-13-SAND LAYER (580-96897-15)	8/19/20	13:40 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Kenny Walker	8.21.20	TASea		08/22/20 09:00	ETA-SAC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact:	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
☒ Yes ☐ No	483831	BK: 0.6 CORE: 1.0

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: DH Environmental, Inc

Job Number: 580-96897-1

Login Number: 96897
List Number: 1
Creator: Vallelunga, Diana L

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: DH Environmental, Inc

Job Number: 580-96897-1

Login Number: 96897
List Number: 2
Creator: Saephan, Kae C

List Source: Eurofins TestAmerica, Sacramento
List Creation: 08/22/20 10:54 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	483831
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	ob: 0.6c corr: 1.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Sacramento Sample Receiving Notes


580-96897 Field Sheet

Job: _____

Tracking # : 913886570506

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: AK-13 Corr. Factor: (+ / -) _____ °C

Ice X Wet X Gel _____ Other _____

Cooler Custody Seal: 483831

Cooler ID: —

Temp Observed: 0.6 °C Corrected: 1.0 °C

From: Temp Blank ☑ Sample ☐

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐

Initials: [illegible] Date: 08/22/20

Unpacking/Labeling The Samples	Yes	No	NA
CoC is complete w/o discrepancies?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
Sample containers have legible labels?	☑	☐	☐
Sample custody seal?	☐	☐	☑
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: [illegible] Date: 08/22/20

Notes: _____

Trizma Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
Samples received within hold time?	☑	☐	☐
NCM Filed?	☐	☐	☑
Log Release checked in TALS?	☐	☐	☑

Initials: [illegible] Date: 08/22/20

Isotope Dilution Summary

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB1L (5-145)	PCB3L (5-145)	PCB4L (5-145)	PCB15L (5-145)	PCB19L (5-145)	PCB37L (5-145)	PCB54L (5-145)	PCB77L (10-145)
580-96897-1	ST-01-SURFACE GRAB	53	54	50	58	55	85	66	55
580-96897-2	ST-02-SURFACE GRAB	59	61	56	63	58	88	71	75
580-96897-3	ST-03-SURFACE GRAB	52	53	51	56	51	85	64	68
580-96897-4	ST-04-SURFACE GRAB	59	60	54	62	59	90	71	71
580-96897-5	ST-11-SAND LAYER	55	57	53	61	58	73	76	70
580-96897-6	ST-05-SURFACE GRAB	58	58	56	62	55	81	71	71
580-96897-7	ST-12-COAL LAYER	57	60	65	79	71	86	95	74
580-96897-8	DUPLICATE-1	55	56	51	70	53	85	59	103
580-96897-9	ST-10-SURFACE GRAB	54	55	61	69	59 q	80	85	86
580-96897-10	ST-15-COAL LAYER	54	54						
580-96897-10 - DL	ST-15-COAL LAYER			66	83	64	88	87	72
580-96897-11	ST-08-SURFACE GRAB	53	49	53	43	46	34	50	42
580-96897-12	ST-14-COAL LAYER	54	57	61	78	59	97	88	71
580-96897-13	ST-06-SURFACE GRAB	52	54	52	65	52	72	71	89
580-96897-14	ST-13-COAL LAYER	55	55						
580-96897-14 - DL	ST-13-COAL LAYER			66	81	65	110	89	78
580-96897-15	ST-13-SAND LAYER	53	54	53	67	51	86	69	87
MB 320-406298/1-A	Method Blank	53	55	54	61	59	71	80	72

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB81L (10-145)	PCB104L (10-145)	PCB105L (10-145)	P114L (10-145)	PCB118L (10-145)	PCB123L (10-145)	PCB126L (10-145)	PCB155L (10-145)
580-96897-1	ST-01-SURFACE GRAB	78	91	79	78	78	76	86	45
580-96897-2	ST-02-SURFACE GRAB	74	94	77	73	77	75	85	67
580-96897-3	ST-03-SURFACE GRAB	67	84	73	70	69	69	80	60
580-96897-4	ST-04-SURFACE GRAB	70	93	74	72	72	71	82	69
580-96897-5	ST-11-SAND LAYER	68	80	68	67	67	65	75	60
580-96897-6	ST-05-SURFACE GRAB	70	86	75	71	70	69	82	65
580-96897-7	ST-12-COAL LAYER	63	93	87	89	87	86	94	77
580-96897-8	DUPLICATE-1	99	68	96	92	92	91	105	61
580-96897-9	ST-10-SURFACE GRAB	84	87	92	92	88	90	101	73
580-96897-10	ST-15-COAL LAYER								
580-96897-10 - DL	ST-15-COAL LAYER	59	67	91	88	85	83	81	71
580-96897-11	ST-08-SURFACE GRAB	41	35	47	44	42	40	49	34
580-96897-12	ST-14-COAL LAYER	57	89	89	88	85	90	99	78
580-96897-13	ST-06-SURFACE GRAB	88	68	91	90	89	89	101	62
580-96897-14	ST-13-COAL LAYER								
580-96897-14 - DL	ST-13-COAL LAYER	72	84	89	89	90	91	101	71
580-96897-15	ST-13-SAND LAYER	86	61	89	84	85	83	97	57
MB 320-406298/1-A	Method Blank	71	66	67	66	65	64	70	59

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	156157L (10-145)	PCB167L (10-145)	PCB169L (10-145)	PCB188L (10-145)	PCB189L (10-145)	PCB202L (10-145)	PCB205L (10-145)	PCB206L (10-145)
580-96897-1	ST-01-SURFACE GRAB	106	97	107	51	111	57	87	61 q
580-96897-2	ST-02-SURFACE GRAB	103	94	112	73	111	79	88	70 q
580-96897-3	ST-03-SURFACE GRAB	99	90	104	64	102	73	82	66 q
580-96897-4	ST-04-SURFACE GRAB	111	98	111	69	107	77	86	68 q
580-96897-5	ST-11-SAND LAYER	86	84	95	63	101	73	81	67 q
580-96897-6	ST-05-SURFACE GRAB	99	91	103	67	103	76	83	65 q
580-96897-7	ST-12-COAL LAYER	100	99	101	96	110	93	82	84

Isotope Dilution Summary

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	156157L (10-145)	PCB167L (10-145)	PCB169L (10-145)	PCB188L (10-145)	PCB189L (10-145)	PCB202L (10-145)	PCB205L (10-145)	PCB206L (10-145)
580-96897-8	DUPLICATE-1	109	118	119	77	92	86	98	59 q
580-96897-9	ST-10-SURFACE GRAB	102	101	107	84	106	93	82	88
580-96897-10	ST-15-COAL LAYER								
580-96897-10 - DL	ST-15-COAL LAYER	75	84	74	94	92	89	64	72
580-96897-11	ST-08-SURFACE GRAB	41	44	45	51	41	49	43	45
580-96897-12	ST-14-COAL LAYER	101	96	101	88	113	81	83	86
580-96897-13	ST-06-SURFACE GRAB	98	97	102	97	99	99	90	67
580-96897-14	ST-13-COAL LAYER								
580-96897-14 - DL	ST-13-COAL LAYER	98	97	89	88	113	86	86	87
580-96897-15	ST-13-SAND LAYER	99	97	103	79	87	81	94	70
MB 320-406298/1-A	Method Blank	82	81	90	67	99	70	77	74

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PCB208L (10-145)	PCB209L (10-145)						
580-96897-1	ST-01-SURFACE GRAB	31 q	23						
580-96897-2	ST-02-SURFACE GRAB	64 q	60						
580-96897-3	ST-03-SURFACE GRAB	60 q	58						
580-96897-4	ST-04-SURFACE GRAB	63 q	62						
580-96897-5	ST-11-SAND LAYER	57 q	51						
580-96897-6	ST-05-SURFACE GRAB	62 q	60						
580-96897-7	ST-12-COAL LAYER	75	54						
580-96897-8	DUPLICATE-1	45 q	47						
580-96897-9	ST-10-SURFACE GRAB	84	68						
580-96897-10	ST-15-COAL LAYER								
580-96897-10 - DL	ST-15-COAL LAYER	62	48						
580-96897-11	ST-08-SURFACE GRAB	36	31						
580-96897-12	ST-14-COAL LAYER	76	59						
580-96897-13	ST-06-SURFACE GRAB	67	69						
580-96897-14	ST-13-COAL LAYER								
580-96897-14 - DL	ST-13-COAL LAYER	64	44						
580-96897-15	ST-13-SAND LAYER	66	70						
MB 320-406298/1-A	Method Blank	64	54						

Surrogate Legend

PCB1L = PCB-1L
PCB3L = PCB-3L
PCB4L = PCB-4L
PCB15L = PCB-15L
PCB19L = PCB-19L
PCB37L = PCB-37L
PCB54L = PCB-54L
PCB77L = PCB-77L
PCB81L = PCB-81L
PCB104L = PCB-104L
PCB105L = PCB-105L
P114L = PCB-114L
PCB118L = PCB-118L
PCB123L = PCB-123L
PCB126L = PCB-126L
PCB155L = PCB-155L

156157L = PCB-156L/157L
PCB167L = PCB-167L
PCB169L = PCB-169L
PCB188L = PCB-188L
PCB189L = PCB-189L
PCB202L = PCB-202L
PCB205L = PCB-205L
PCB206L = PCB-206L
PCB208L = PCB-208L
PCB209L = PCB-209L

Method: 1668C - Chlorinated Biphenyl Congeners (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB1L	PCB3L	PCB4L	PCB15L	PCB19L	PCB37L	PCB54L	PCB77L
Lab Sample ID	Client Sample ID	(15-145)	(15-145)	(15-145)	(15-145)	(15-145)	(15-145)	(15-145)	(40-145)
LCS 320-406298/2-A	Lab Control Sample	55	57	53	59	56	69	83	67
LCSD 320-406298/3-A	Lab Control Sample Dup	49	49	48	50	49	60	75	59

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB81L	PCB104L	PCB105L	P114L	PCB118L	PCB123L	PCB126L	PCB155L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)
LCS 320-406298/2-A	Lab Control Sample	66	83	67	65	65	63	72	61
LCSD 320-406298/3-A	Lab Control Sample Dup	59	72	63	60	59	59	66	35 *5

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		156157L	PCB167L	PCB169L	PCB188L	PCB189L	PCB202L	PCB205L	PCB206L
Lab Sample ID	Client Sample ID	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)	(40-145)
LCS 320-406298/2-A	Lab Control Sample	80	77	87	68	100	76	83	70 q
LCSD 320-406298/3-A	Lab Control Sample Dup	77	76	82	44	99	53	80	55 q

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PCB208L	PCB209L						
Lab Sample ID	Client Sample ID	(40-145)	(40-145)						
LCS 320-406298/2-A	Lab Control Sample	62 q	62						
LCSD 320-406298/3-A	Lab Control Sample Dup	33 *5 q	27 *5						

Surrogate Legend

PCB1L = PCB-1L
PCB3L = PCB-3L
PCB4L = PCB-4L
PCB15L = PCB-15L
PCB19L = PCB-19L
PCB37L = PCB-37L
PCB54L = PCB-54L
PCB77L = PCB-77L
PCB81L = PCB-81L
PCB104L = PCB-104L
PCB105L = PCB-105L
P114L = PCB-114L
PCB118L = PCB-118L
PCB123L = PCB-123L
PCB126L = PCB-126L
PCB155L = PCB-155L
156157L = PCB-156L/157L
PCB167L = PCB-167L
PCB169L = PCB-169L
PCB188L = PCB-188L

Isotope Dilution Summary

Client: DH Environmental, Inc
Job ID: 580-96897-1
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

PCB189L = PCB-189L
PCB202L = PCB-202L
PCB205L = PCB-205L
PCB206L = PCB-206L
PCB208L = PCB-208L
PCB209L = PCB-209L

APPENDIX D - DATA VALIDATION SUMMARY

Appendix D
Data Validation Summary
Upriver Dam Sediment Sampling Results
Upriver Dam PCB Sediment Site, Spokane, Washington
August 2020

This report summarizes the review of analytical results for 15 sediment samples and 1 rinsate blank collected from the Upriver Dam PCB Sediment Site in Spokane, Washington, on August 18 and 19, 2020. The samples were collected by DH Environmental, Inc. (DH Environmental) and submitted to Eurofins TestAmerica (TA) in Tacoma, Washington. The samples were analyzed for one or more of the following parameters:

- Polychlorinated biphenyl (PCBs) Aroclors by Environmental Protection Agency (EPA) Method 8082A,
- PCBs congeners by EPA Method 1668C, and/or
- Total Metals (arsenic, cadmium, copper, lead, zinc) by EPA Method 6020A.

TA sample data group (SDG) number 580-96897-1 was reviewed in this report. Samples and associated parameters reviewed in this report are presented in Table D-2.

Data Validation and Qualifications

The following comments refer to the laboratory's performance in meeting the quality assurance/quality control (QA/QC) guidelines outlined in the analytical procedures and data quality objective sections of the Sampling and Analysis Plan (SAP). Laboratory results were reviewed and qualified as applicable following the guidance of *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, January 2017, and *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review*, January 2017. The laboratory provided summary reports containing sample results and associated QA/QC data. A summary of qualifiers assigned to results in this SDG is included in Table D-3.

Table D-1, below, lists the QA/QC parameters that were evaluated. An "ok" indicates an area of review in which all data were acceptable. The number indicates where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability. The numbers correspond to the notes listed below the table.

Table D-1
Data Review Matrix

QC Parameter	PCBs 8082	PCB Congeners 1668C	Metals
Chain-of-custody (COC) / Sample Receipt	ok	ok[a]	ok
Holding Times	ok	ok	ok
Method Blank / Rinsate Blank*	ok	(1)	(1)
Surrogate Recovery	(2)	ok	NA
Field Duplicate	(3)	(3)	(3)
LCS/LCSD*	ok	ok	ok
MS/MSD	ok	NA	NA
Reporting Limit	(4)	(4)	ok
Other	(5)	(5)	ok

NA= Not Applicable *Where applicable
LCS/LCSD = Laboratory Control Sample / Laboratory Control Sample Duplicate
MS/MSD = Matrix Spike / Matrix Spike Duplicate

Notes

A. PCB Congeners Method 1668C - The sediment samples were subcontracted to Eurofins TA in West Sacramento, California for PCBs congeners by EPA Method 1668C.

1. PCB Congeners Method 1668C - Several PCB congeners were detected in the method blank extracted on August 25, 2020 at concentrations between the method detection limits (MDLs) and laboratory reporting limits. PCB-3 (26.3 picograms per gram [pg/g]) was detected in the method blank extracted on August 25, 2020. Based on guidance from the National Functional Guidelines, associated sample results reported between the MDL and the reporting limit were qualified as not detected at the reporting limit. Sample results reported at concentrations between one and two times (2x) the reporting limit were qualified as estimated with high bias and flagged 'J+.' Results reported at concentrations greater than 2x the reporting limit were not qualified. The flags applied to PCB congener results based on the method blank results are presented in the Table D-3.

1. Total Metals Method 6020A - Zinc (0.00301 milligrams per liter [mg/L]) was detected in the method blank extracted on August 20, 2020 at a concentration between the MDL and laboratory reporting limit. Based on guidance from the National Functional Guidelines, associated sample results reported between the MDL and the reporting limit were qualified as

not detected at the reporting limit. Zinc in the rinsate blank (RB-20200819) was qualified as not detected at the reporting limit.

Arsenic (0.00027 mg/L) and zinc (0.0021 mg/L) were detected in the rinsate blank at concentrations between the MDLs and laboratory reporting limits. The reporting limits for arsenic (0.0010 mg/L) and zinc (0.0070 mg/L) in the rinsate blank were below the MDLs for arsenic (0.050 milligrams per kilogram [mg/kg]) and zinc (0.81 mg/kg) in sediment samples; therefore, the arsenic and zinc results in the rinsate blank did not impact the associated results for the sediment samples and no data were qualified based on these rinsate blank results.

Copper (0.0052 mg/L) was detected in the rinsate blank. As the results for copper in the associated samples were greater than ten times the rinsate blank result, data were not qualified based on the rinsate blank result.

2. PCBs Method 8082 - The laboratory noted that surrogates tetrachloro-m-xylene and/or DCB Decachlorobiphenyl were out low for one or more samples. Based on guidance from the National Functional Guidelines, surrogate recoveries were within control limits of 30-150% and data were not qualified based on the laboratory control limits. Data were not qualified in quality control (CCV) samples based on surrogate recoveries.

3. General - A field duplicate was submitted for *ST-06-Surface Grab* and identified as *Duplicate-1*. The relative percent differences (RPDs) for Aroclor 1248, several PCB congeners, and cadmium were greater than 50%. As the absolute difference between reporting limits for the following analytes were greater than the reporting limits, the results for Aroclor 1248, PCB-020/028, PCB-022, PCB-031, PCB-061/070/074/076, PCB-066, PCB-081, and cadmium in *ST-06-Surface Grab* and *Duplicate-1* were qualified as estimated and flagged "UJ" or "J" as noted in Table D-2. As the absolute difference between reporting limits for the other PCB Congener analytes were less than the reporting limits, data were not qualified based on the RPDs.

4. PCBs Method 8082 - Several samples required mercury clean-up to reduce matrix interferences caused by sulfur. The elevated reporting limits do not affect data usage for regulatory comparison.

4. PCB Congeners Method 1668C – The results for one or more organic analytes in several samples were flagged with a 'J' by the laboratory indicating that the reported concentrations were above the MDLs and below the reporting limits. All J-flagged results are considered estimated unless otherwise qualified as described in this report.

One or more samples MDLs were elevated and flagged 'G' by the laboratory due to matrix interferences and/or dilutions. No additional qualifiers are necessary based on the 'G' qualifier assigned by the laboratory.

One or more samples were flagged "q" by the laboratory to indicate the reported result is the estimated maximum possible concentration of the analyte(s), quantitated by the theoretical ion ration. The results for all 'q'-flagged data were qualified as estimated with high bias and flagged 'J+' unless otherwise qualified as described in this report.

5. PCBs Method 8082 - The laboratory noted that continuing calibration verifications (CCVs) were outside control limits for Aroclor 1260 and surrogate tetrachloro-m-xylene on one column in several samples. As data were reported from the passing column, data were not qualified based on the CCV recoveries.

The laboratory noted the CCV recoveries were out high for PCB-1242 and PCB-1268 in the rinsate blank and a QC (CCV) sample. As Aroclor 1242 was not detected in the rinsate blank and the CCV was out high, data was not qualified based on the CCV recovery. Aroclor 1268 was not reported for the rinsate blank. No data were qualified for the CCV sample.

The laboratory noted internal standard responses were out high on one column for samples *ST-12-Coal Layer*, *ST-10-Surface Grab*, and *ST-08-Surface Grab*. As the sample results were reported from the passing other column, data were not qualified based on the internal standard responses.

5. PCB Congeners Method 1668C - The laboratory noted the Isotope Dilution Analyte (IDA) recovery associated with the laboratory control spike duplicate (LCSD) was below the method recommended limit. As the IDA signal-to-noise ratio was greater than 10:1, and the native spike recoveries and RPDs were in control; data were not qualified based on the LCSD IDA recoveries.

The laboratory noted the ion abundance ratios were outside criteria for isotope dilution analytes PCB-206L, PCB-208L, and/or PCB-19L in one or more samples. As the laboratory was able to use the theoretical area to quantitate recovery, data were not qualified unless flagged 'q' by the laboratory as described previously in this report.

Overall Assessment

The data reported in this SDG, as qualified, is considered to be usable for meeting project objectives. The completeness for Test America SDG 580-96897-1 is 100%.

References

USEPA, 2017. National Functional Guidelines for Superfund Inorganic Methods Data Review. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation (OSRTI). EPA 540-R-2017-001. January.

USEPA, 2017. National Functional Guidelines for Superfund Organic Methods Data Review. U.S. Environmental Protection Agency, OSRTI. USEPA 540-R-2017-002. January.

Table D-2

Sample Identification and Associated Parameters

Sample ID	Lab ID	Sample Date	Analyses
ST-01-SURFACE GRAB	580-96897-1	8/18/2020	PCBs 8082A, PCBs 1668C, Total Metals 6020A
ST-02-SURFACE GRAB	580-96897-2	8/18/2020	PCBs 8082A, PCBs 1668C, Total Metals 6020A
ST-03-SURFACE GRAB	580-96897-3	8/18/2020	PCBs 8082A, PCBs 1668C, Total Metals 6020A
ST-04-SURFACE GRAB	580-96897-4	8/18/2020	PCBs 8082A, PCBs 1668C, Total Metals 6020A
ST-11-SAND LAYER	580-96897-5	8/18/2020	PCBs 8082A, PCBs 1668C
ST-05-SURFACE GRAB	580-96897-6	8/18/2020	PCBs 8082A, PCBs 1668C, Total Metals 6020A
ST-12-COAL LAYER	580-96897-7	8/18/2020	PCBs 8082A, PCBs 1668C
DUPLICATE-1 (Duplicate of ST-06-SURFACE GRAB)	580-96897-8	8/19/2020	PCBs 8082A, PCBs 1668C, Total Metals 6020A
ST-10-SURFACE GRAB	580-96897-9	8/19/2020	PCBs 8082A, PCBs 1668C, Total Metals 6020A
ST-15-COAL LAYER	580-96897-10	8/19/2020	PCBs 8082A, PCBs 1668C
ST-08-SURFACE GRAB	580-96897-11	8/19/2020	PCBs 8082A, PCBs 1668C, Total Metals 6020A
ST-14-COAL LAYER	580-96897-12	8/19/2020	PCBs 8082A, PCBs 1668C
ST-06-SURFACE GRAB	580-96897-13	8/19/2020	PCBs 8082A, PCBs 1668C, Total Metals 6020A
ST-13-COAL LAYER	580-96897-14	8/19/2020	PCBs 8082A, PCBs 1668C
ST-13-SAND LAYER	580-96897-15	8/19/2020	PCBs 8082A, PCBs 1668C
RB-20200819	580-96897-16	8/19/2020	PCBs 8082A, Total Metals 6020A

TABLE D-3
Qualified Data

Sample ID	Method	Analyte Name	Lab Result	Units	Final Result	Qualification Reason
ST-01-SURFACE GRAB	EPA1668C	PCB-001	3.8 J B	pg/g	36 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-002	2.6 J q B	pg/g	36 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-003	10 J B	pg/g	36 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-006	5.8 J q	pg/g	5.8 J+	theoretical ion ratio
ST-01-SURFACE GRAB	EPA1668C	PCB-011	22 J B	pg/g	36 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-018/030	51 J B	pg/g	72 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-021/033	100 B	pg/g	100 J+	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-044/047/065	190 B	pg/g	190 J+	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-054	0.79 J q	pg/g	0.79 J+	theoretical ion ratio
ST-01-SURFACE GRAB	EPA1668C	PCB-090/101/113	140 B	pg/g	140 J+	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-095	67 B	pg/g	67 J+	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-104	0.64 J q	pg/g	0.64 J+	theoretical ion ratio
ST-01-SURFACE GRAB	EPA1668C	PCB-129/138/163	100 J B	pg/g	110 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-131	0.95 J q	pg/g	0.95 J+	theoretical ion ratio
ST-01-SURFACE GRAB	EPA1668C	PCB-133	1.1 J q	pg/g	1.1 J+	theoretical ion ratio
ST-01-SURFACE GRAB	EPA1668C	PCB-135/151	24 J B	pg/g	72 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-147/149	54 J B	pg/g	72 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-153/168	68 J B	pg/g	72 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-162	0.76 J q	pg/g	0.76 J+	theoretical ion ratio
ST-01-SURFACE GRAB	EPA1668C	PCB-171/173	6.2 J q	pg/g	6.2 J+	theoretical ion ratio
ST-01-SURFACE GRAB	EPA1668C	PCB-174	23 J B	pg/g	36 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-175	0.7 J q	pg/g	0.70 J+	theoretical ion ratio
ST-01-SURFACE GRAB	EPA1668C	PCB-180/193	49 J B	pg/g	72 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-183	12 J B	pg/g	36 U	method blank
ST-01-SURFACE GRAB	EPA1668C	PCB-185	3.7 J q	pg/g	3.7 J+	theoretical ion ratio
ST-01-SURFACE GRAB	EPA1668C	PCB-191	0.61 J q	pg/g	0.61 J+	theoretical ion ratio
ST-01-SURFACE GRAB	EPA1668C	PCB-207	0.72 J q	pg/g	0.72 J+	theoretical ion ratio
ST-01-SURFACE GRAB	EPA1668C	PCB-209	3.9 J q	pg/g	3.9 J+	theoretical ion ratio
ST-02-SURFACE GRAB	EPA1668C	PCB-001	3.1 J B	pg/g	29 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-002	6.1 J B	pg/g	29 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-003	24 J B	pg/g	29 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-011	12 J q B	pg/g	29 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-018/030	33 J B	pg/g	57 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-021/033	65 B	pg/g	65 J+	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-044/047/065	89 B	pg/g	89 J+	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-046/069	110 B	pg/g	110 J+	method blank

Sample ID	Method	Analyte Name	Lab Result	Units	Final Result	Qualification Reason
ST-02-SURFACE GRAB	EPA1668C	PCB-090/101/113	72 J B	pg/g	86 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-107/124	5.5 J q	pg/g	5.5 J+	theoretical ion ratio
ST-02-SURFACE GRAB	EPA1668C	PCB-095	29 B	pg/g	29 J+	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-110/115	110 B	pg/g	110 J+	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-129/138/163	51 J B	pg/g	86 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-133	0.59 J q	pg/g	0.59 J+	theoretical ion ratio
ST-02-SURFACE GRAB	EPA1668C	PCB-135/151	10 J B	pg/g	57 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-147/149	22 J B	pg/g	57 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-153/168	33 J B	pg/g	57 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-174	11 J B	pg/g	29 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-175	0.36 J q	pg/g	0.36 J+	theoretical ion ratio
ST-02-SURFACE GRAB	EPA1668C	PCB-180/193	26 J B	pg/g	57 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-183	6.6 J B	pg/g	29 U	method blank
ST-02-SURFACE GRAB	EPA1668C	PCB-195	2.4 J q	pg/g	2.4 J+	theoretical ion ratio
ST-02-SURFACE GRAB	EPA1668C	PCB-197	0.27 J q	pg/g	0.27 J+	theoretical ion ratio
ST-02-SURFACE GRAB	EPA1668C	PCB-200	0.91 J q	pg/g	0.91 J+	theoretical ion ratio
ST-02-SURFACE GRAB	EPA1668C	PCB-205	0.69 J q	pg/g	0.69 J+	theoretical ion ratio
ST-02-SURFACE GRAB	EPA1668C	PCB-206	5.6 J q	pg/g	5.6 J+	theoretical ion ratio
ST-02-SURFACE GRAB	EPA1668C	PCB-209	2.7 J q	pg/g	2.7 J+	theoretical ion ratio
ST-03-SURFACE GRAB	EPA1668C	PCB-001	3.5 J B	pg/g	28 U	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-002	2.6 J B	pg/g	28 U	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-003	7.3 J B	pg/g	28 U	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-011	20 J B	pg/g	28 U	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-018/030	59 B	pg/g	59 J+	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-019	4.1 J q	pg/g	4.1 J+	theoretical ion ratio
ST-03-SURFACE GRAB	EPA1668C	PCB-021/033	100 B	pg/g	100 J+	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-090/101/113	100 B	pg/g	100 J+	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-129/138/163	60 J B	pg/g	83 U	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-135/151	11 J B	pg/g	55 U	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-147/149	26 J B	pg/g	55 U	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-153/168	38 J B	pg/g	55 U	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-159	0.37 J q	pg/g	0.37 J+	theoretical ion ratio
ST-03-SURFACE GRAB	EPA1668C	PCB-174	15 J B	pg/g	28 U	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-175	0.31 J q	pg/g	0.31 J+	theoretical ion ratio
ST-03-SURFACE GRAB	EPA1668C	PCB-180/193	37 J B	pg/g	55 U	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-183	8.7 J B	pg/g	28 U	method blank
ST-03-SURFACE GRAB	EPA1668C	PCB-197	0.37 J q	pg/g	0.37 J+	theoretical ion ratio
ST-03-SURFACE GRAB	EPA1668C	PCB-200	1.5 J q	pg/g	1.5 J+	theoretical ion ratio
ST-03-SURFACE GRAB	EPA1668C	PCB-205	0.91 J q	pg/g	0.91 J+	theoretical ion ratio

Sample ID	Method	Analyte Name	Lab Result	Units	Final Result	Qualification Reason
ST-03-SURFACE GRAB	EPA1668C	PCB-206	6 J q	pg/g	6.0 J+	theoretical ion ratio
ST-04-SURFACE GRAB	EPA1668C	PCB-001	2 J B	pg/g	26 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-002	3.6 J B	pg/g	26 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-003	14 J B	pg/g	26 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-011	12 J B	pg/g	26 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-018/030	14 J B	pg/g	52 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-019	1.1 J q	pg/g	1.1 J+	theoretical ion ratio
ST-04-SURFACE GRAB	EPA1668C	PCB-021/033	38 J B	pg/g	52 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-024	0.48 J q	pg/g	0.48 J+	theoretical ion ratio
ST-04-SURFACE GRAB	EPA1668C	PCB-044/047/065	55 J B	pg/g	78 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-046/069	43 J B	pg/g	52 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-090/101/113	44 J B	pg/g	78 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-095	20 J B	pg/g	26 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-110/115	72 B	pg/g	72 J+	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-129/138/163	27 J B	pg/g	78 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-135/151	5.6 J B	pg/g	52 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-147/149	13 J B	pg/g	52 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-153/168	17 J B	pg/g	52 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-159	0.18 J q	pg/g	0.18 J+	theoretical ion ratio
ST-04-SURFACE GRAB	EPA1668C	PCB-172	1.1 J q	pg/g	1.1 J+	theoretical ion ratio
ST-04-SURFACE GRAB	EPA1668C	PCB-174	5.4 J B	pg/g	26 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-178	1.1 J q	pg/g	1.1 J+	theoretical ion ratio
ST-04-SURFACE GRAB	EPA1668C	PCB-180/193	14 J B	pg/g	52 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-183	3.1 J B	pg/g	26 U	method blank
ST-04-SURFACE GRAB	EPA1668C	PCB-189	0.5 J q	pg/g	0.50 J+	theoretical ion ratio
ST-04-SURFACE GRAB	EPA1668C	PCB-205	0.28 J q	pg/g	0.28 J+	theoretical ion ratio
ST-04-SURFACE GRAB	EPA1668C	PCB-206	2.4 J q	pg/g	2.4 J+	theoretical ion ratio
ST-11-SAND LAYER	EPA1668C	PCB-002	0.66 J q B	pg/g	26 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-003	3.1 J B	pg/g	26 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-018/030	1.1 J q B	pg/g	53 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-020/028	4.8 J B	pg/g	79 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-021/033	1.5 J B	pg/g	53 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-031	3.5 J B	pg/g	26 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-042	0.66 J q	pg/g	0.66 J+	theoretical ion ratio
ST-11-SAND LAYER	EPA1668C	PCB-044/047/065	3.4 J B	pg/g	79 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-045	0.33 J q	pg/g	0.33 J+	theoretical ion ratio
ST-11-SAND LAYER	EPA1668C	PCB-048	0.43 J q	pg/g	0.43 J+	theoretical ion ratio
ST-11-SAND LAYER	EPA1668C	PCB-046/069	2 J B	pg/g	53 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-050/053	0.53 J q	pg/g	0.53 J+	theoretical ion ratio

Sample ID	Method	Analyte Name	Lab Result	Units	Final Result	Qualification Reason
ST-11-SAND LAYER	EPA1668C	PCB-052	3 J B	pg/g	26 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-061/070/074/076	6.7 J B	pg/g	110 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-064	1.6 J B	pg/g	26 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-066	4.7 J B	pg/g	26 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-090/101/113	1.8 J q B	pg/g	79 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-095	1.5 J q B	pg/g	26 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-110/115	2.8 J B	pg/g	53 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-118	2.5 J B	pg/g	5.3 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-129/138/163	1.1 J B	pg/g	79 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-147/149	0.72 J B	pg/g	53 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-153/168	0.78 J q B	pg/g	53 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-174	0.3 J q B	pg/g	26 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-180/193	0.55 J q B	pg/g	53 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-183	0.32 J B	pg/g	26 U	method blank
ST-11-SAND LAYER	EPA1668C	PCB-198/199	0.21 J q	pg/g	0.21 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-001	1.9 J B	pg/g	27 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-002	3.7 J B	pg/g	27 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-003	13 J B	pg/g	27 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-011	8.9 J B q	pg/g	27 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-012/013	8.6 J q	pg/g	8.6 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-018/030	30 J B	pg/g	54 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-021/033	67 B	pg/g	67 J+	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-044/047/065	100 B	pg/g	100 J+	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-046/069	77 B	pg/g	77 J+	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-068	1.3 J q	pg/g	1.3 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-081	3.6 q	pg/g	3.6 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-090/101/113	68 J B	pg/g	81 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-107/124	4.5 J q	pg/g	4.5 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-095	33 B	pg/g	33 J+	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-110/115	100 B	pg/g	100 J+	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-129/138/163	41 J B	pg/g	81 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-135/151	7.8 J B	pg/g	54 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-139/140	0.44 J q	pg/g	0.44 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-147/149	18 J B	pg/g	54 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-153/168	25 J B	pg/g	54 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-164	2.4 J q	pg/g	2.4 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-174	7.5 J B	pg/g	27 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-176	0.54 J q	pg/g	0.54 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-178	1.3 J q	pg/g	1.3 J+	theoretical ion ratio

Sample ID	Method	Analyte Name	Lab Result	Units	Final Result	Qualification Reason
ST-05-SURFACE GRAB	EPA1668C	PCB-180/193	18 J B	pg/g	54 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-183	3.4 J B q	pg/g	27 U	method blank
ST-05-SURFACE GRAB	EPA1668C	PCB-191	0.34 J q	pg/g	0.34 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-196	2.1 J q	pg/g	2.1 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-200	0.59 J q	pg/g	0.59 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-201	0.59 J q	pg/g	0.59 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-206	3.3 J q	pg/g	3.3 J+	theoretical ion ratio
ST-05-SURFACE GRAB	EPA1668C	PCB-209	1.5 J q	pg/g	1.5 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-001	7.4 J B	pg/g	160 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-002	5.6 J B	pg/g	160 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-003	8.5 J B	pg/g	160 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-006	39 J q	pg/g	39 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-018/030	370 B	pg/g	370 J+	method blank
ST-12-COAL LAYER	EPA1668C	PCB-041	65 J q	pg/g	65 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-044/047/065	780 B	pg/g	780 J+	method blank
ST-12-COAL LAYER	EPA1668C	PCB-046/069	500 B	pg/g	500 J+	method blank
ST-12-COAL LAYER	EPA1668C	PCB-089	5.3 J q	pg/g	5.3 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-090/101/113	230 J B	pg/g	470 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-107/124	11 J q	pg/g	11 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-095	150 J B	pg/g	160 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-096	1.9 J q	pg/g	1.9 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-110/115	290 J B	pg/g	310 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-122	5.8 J q	pg/g	5.8 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-123	9.3 J q	pg/g	9.3 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-129/138/163	84 J B	pg/g	470 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-130	4.6 J q	pg/g	4.6 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-135/151	20 J B	pg/g	310 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-137	3.9 J q	pg/g	3.9 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-147/149	55 J B	pg/g	310 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-153/168	58 J B	pg/g	310 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-171/173	3.5 J q	pg/g	3.5 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-174	17 J B	pg/g	160 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-180/193	36 J B	pg/g	310 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-183	8.8 J B	pg/g	160 U	method blank
ST-12-COAL LAYER	EPA1668C	PCB-194	7.7 J q	pg/g	7.7 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-195	3 J q	pg/g	3.0 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-198/199	9 J q	pg/g	9.0 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-201	1.4 J q	pg/g	1.4 J+	theoretical ion ratio
ST-12-COAL LAYER	EPA1668C	PCB-202	1.9 J q	pg/g	1.9 J+	theoretical ion ratio

Sample ID	Method	Analyte Name	Lab Result	Units	Final Result	Qualification Reason
ST-12-COAL LAYER	EPA1668C	PCB-208	1.8 J q	pg/g	1.8 J+	theoretical ion ratio
DUPLICATE-1	EPA 8082A	PCB-Aroclor 1248	2.8 U	ug/kg	2.8 UJ	field duplicate results
DUPLICATE-1	EPA1668C	PCB-001	2.4 J B q	pg/g	27 U	method blank
DUPLICATE-1	EPA1668C	PCB-002	4.8 J B	pg/g	27 U	method blank
DUPLICATE-1	EPA1668C	PCB-003	19 J B	pg/g	27 U	method blank
DUPLICATE-1	EPA1668C	PCB-011	19 J B	pg/g	27 U	method blank
DUPLICATE-1	EPA1668C	PCB-018/030	88 B	pg/g	88 J+	method blank
DUPLICATE-1	EPA1668C	PCB-020/028	770 B	pg/g	770 J	field duplicate results
DUPLICATE-1	EPA1668C	PCB-022	160	pg/g	160 J	field duplicate results
DUPLICATE-1	EPA1668C	PCB-031	630 B	pg/g	630 J	field duplicate results
DUPLICATE-1	EPA1668C	PCB-054	0.59 J q	pg/g	0.59 J+	theoretical ion ratio
DUPLICATE-1	EPA1668C	PCB-061/070/074/076	970 B	pg/g	970 J	field duplicate results
DUPLICATE-1	EPA1668C	PCB-066	770 B	pg/g	770 J	field duplicate results
DUPLICATE-1	EPA1668C	PCB-081	6.9 G	pg/g	6.9 J	field duplicate results
DUPLICATE-1	EPA1668C	PCB-090/101/113	150 B	pg/g	150 J+	method blank
DUPLICATE-1	EPA1668C	PCB-129/138/163	91 B	pg/g	91 J+	method blank
DUPLICATE-1	EPA1668C	PCB-134/143	3 J q	pg/g	3.0 J+	theoretical ion ratio
DUPLICATE-1	EPA1668C	PCB-135/151	18 J B	pg/g	55 U	method blank
DUPLICATE-1	EPA1668C	PCB-147/149	40 J B	pg/g	55 U	method blank
DUPLICATE-1	EPA1668C	PCB-153/168	54 J B	pg/g	55 U	method blank
DUPLICATE-1	EPA1668C	PCB-174	23 J B	pg/g	27 U	method blank
DUPLICATE-1	EPA1668C	PCB-180/193	61 B	pg/g	61 J+	method blank
DUPLICATE-1	EPA1668C	PCB-183	12 J B	pg/g	27 U	method blank
DUPLICATE-1	EPA1668C	PCB-209	2.5 J q	pg/g	2.5 J+	theoretical ion ratio
DUPLICATE-1	SW6020	Cadmium	2.8	mg/kg	2.8 J	field duplicate results
ST-10-SURFACE GRAB	EPA1668C	PCB-001	83 J B	pg/g	370 U	method blank
ST-10-SURFACE GRAB	EPA1668C	PCB-002	40 J B	pg/g	370 U	method blank
ST-10-SURFACE GRAB	EPA1668C	PCB-003	89 J B	pg/g	370 U	method blank
ST-10-SURFACE GRAB	EPA1668C	PCB-011	330 J B	pg/g	370 U	method blank
ST-10-SURFACE GRAB	EPA1668C	PCB-107/124	230 J q	pg/g	230 J+	theoretical ion ratio
ST-10-SURFACE GRAB	EPA1668C	PCB-104	3.9 J q	pg/g	3.9 J+	theoretical ion ratio
ST-10-SURFACE GRAB	EPA1668C	PCB-129/138/163	1900 B	pg/g	1900 J+	method blank
ST-10-SURFACE GRAB	EPA1668C	PCB-135/151	540 J B	pg/g	730 U	method blank
ST-10-SURFACE GRAB	EPA1668C	PCB-147/149	1100 B	pg/g	1,100 J+	method blank
ST-10-SURFACE GRAB	EPA1668C	PCB-153/168	1300 B	pg/g	1,300 J+	method blank
ST-10-SURFACE GRAB	EPA1668C	PCB-174	380 B	pg/g	380 J+	method blank
ST-10-SURFACE GRAB	EPA1668C	PCB-180/193	820 B	pg/g	820 J+	method blank
ST-10-SURFACE GRAB	EPA1668C	PCB-183	200 J B	pg/g	370 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-001	4.3 J B	pg/g	32 U	method blank

Sample ID	Method	Analyte Name	Lab Result	Units	Final Result	Qualification Reason
ST-15-COAL LAYER	EPA1668C	PCB-002	5.1 J B	pg/g	32 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-003	13 J B	pg/g	32 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-018/030	74 J B	pg/g	320 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-020/028	320 J B	pg/g	480 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-021/033	120 J B	pg/g	320 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-022	69 J q	pg/g	69 J+	theoretical ion ratio
ST-15-COAL LAYER	EPA1668C	PCB-031	260 B	pg/g	260 J+	method blank
ST-15-COAL LAYER	EPA1668C	PCB-044/047/065	250 J B	pg/g	480 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-046/069	150 J B	pg/g	320 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-052	240 B	pg/g	240 J+	method blank
ST-15-COAL LAYER	EPA1668C	PCB-061/070/074/076	470 J B	pg/g	640 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-064	130 J B	pg/g	160 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-090/101/113	120 J B	pg/g	480 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-095	71 J B	pg/g	160 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-110/115	160 J B	pg/g	320 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-129/138/163	76 J B	pg/g	480 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-134/143	2.4 J q	pg/g	2.4 J+	theoretical ion ratio
ST-15-COAL LAYER	EPA1668C	PCB-135/151	4.5 J B	pg/g	320 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-137	3.6 J q	pg/g	3.6 J+	theoretical ion ratio
ST-15-COAL LAYER	EPA1668C	PCB-147/149	42 J B	pg/g	320 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-153/168	56 J B	pg/g	320 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-172	2.4 J q	pg/g	2.4 J+	theoretical ion ratio
ST-15-COAL LAYER	EPA1668C	PCB-174	14 J q B	pg/g	160 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-176	1.1 J q	pg/g	1.1 J+	theoretical ion ratio
ST-15-COAL LAYER	EPA1668C	PCB-178	3.4 J q	pg/g	3.4 J+	theoretical ion ratio
ST-15-COAL LAYER	EPA1668C	PCB-180/193	34 J B	pg/g	320 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-183	9 J B	pg/g	160 U	method blank
ST-15-COAL LAYER	EPA1668C	PCB-206	7.5 J q	pg/g	7.5 J+	theoretical ion ratio
ST-15-COAL LAYER	EPA1668C	PCB-209	2.7 J q	pg/g	2.7 J+	theoretical ion ratio
ST-08-SURFACE GRAB	EPA1668C	PCB-001	2.1 J B	pg/g	25 U	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-002	2 J B	pg/g	25 U	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-003	6.5 J B	pg/g	25 U	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-011	15 J B	pg/g	25 U	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-018/030	79 B	pg/g	79 J+	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-021/033	99 B	pg/g	99 J+	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-085/116/117	57 J q	pg/g	57 J+	theoretical ion ratio
ST-08-SURFACE GRAB	EPA1668C	PCB-090/101/113	130 B	pg/g	130 J+	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-129/138/163	91 B	pg/g	91 J+	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-135/151	20 J B	pg/g	50 U	method blank

Sample ID	Method	Analyte Name	Lab Result	Units	Final Result	Qualification Reason
ST-08-SURFACE GRAB	EPA1668C	PCB-146	8.4 J q	pg/g	8.4 J+	theoretical ion ratio
ST-08-SURFACE GRAB	EPA1668C	PCB-147/149	43 J B	pg/g	50 U	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-153/168	60 B	pg/g	60 J+	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-174	16 J B	pg/g	25 U	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-180/193	33 J B	pg/g	50 U	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-183	7.5 J B	pg/g	25 U	method blank
ST-08-SURFACE GRAB	EPA1668C	PCB-207	0.35 J q	pg/g	0.35 J+	theoretical ion ratio
ST-14-COAL LAYER	EPA1668C	PCB-001	21 J B	pg/g	160 U	method blank
ST-14-COAL LAYER	EPA1668C	PCB-002	18 J B	pg/g	160 U	method blank
ST-14-COAL LAYER	EPA1668C	PCB-003	31 J B	pg/g	160 U	method blank
ST-14-COAL LAYER	EPA1668C	PCB-011	82 J B	pg/g	160 U	method blank
ST-14-COAL LAYER	EPA1668C	PCB-122	51 J q	pg/g	51 J+	theoretical ion ratio
ST-14-COAL LAYER	EPA1668C	PCB-129/138/163	540 B	pg/g	540 J+	method blank
ST-14-COAL LAYER	EPA1668C	PCB-135/151	130 J B	pg/g	310 U	method blank
ST-14-COAL LAYER	EPA1668C	PCB-147/149	310 B	pg/g	310 J+	method blank
ST-14-COAL LAYER	EPA1668C	PCB-153/168	350 B	pg/g	350 J+	method blank
ST-14-COAL LAYER	EPA1668C	PCB-162	3 J q	pg/g	3.0 J+	theoretical ion ratio
ST-14-COAL LAYER	EPA1668C	PCB-174	100 J B	pg/g	160 U	method blank
ST-14-COAL LAYER	EPA1668C	PCB-180/193	200 J B	pg/g	310 U	method blank
ST-14-COAL LAYER	EPA1668C	PCB-183	51 J B	pg/g	160 U	method blank
ST-14-COAL LAYER	EPA1668C	PCB-189	5.6 J q	pg/g	5.6 J+	theoretical ion ratio
ST-14-COAL LAYER	EPA1668C	PCB-191	3.3 J q	pg/g	3.3 J+	theoretical ion ratio
ST-14-COAL LAYER	EPA1668C	PCB-197	1.8 J q	pg/g	1.8 J+	theoretical ion ratio
ST-14-COAL LAYER	EPA1668C	PCB-201	9.5 J q	pg/g	9.5 J+	theoretical ion ratio
ST-06-SURFACE GRAB	EPA 8082A	PCB-Aroclor 1248	8.6	ug/kg	8.6 J	field duplicate results
ST-06-SURFACE GRAB	EPA1668C	PCB-001	1.8 J B	pg/g	27 U	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-002	2.3 J B	pg/g	27 U	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-003	8.2 J B	pg/g	27 U	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-011	17 J B	pg/g	27 U	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-018/030	62 B	pg/g	62 J+	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-020/028	430 B	pg/g	430 J	field duplicate results
ST-06-SURFACE GRAB	EPA1668C	PCB-021/033	95 B	pg/g	95 J+	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-022	89	pg/g	89 J	field duplicate results
ST-06-SURFACE GRAB	EPA1668C	PCB-031	330 B	pg/g	330 J	field duplicate results
ST-06-SURFACE GRAB	EPA1668C	PCB-044/047/065	200 B	pg/g	200 J+	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-054	0.55 J q	pg/g	0.55 J+	theoretical ion ratio
ST-06-SURFACE GRAB	EPA1668C	PCB-061/070/074/076	260 B	pg/g	260 J	field duplicate results
ST-06-SURFACE GRAB	EPA1668C	PCB-066	320 B	pg/g	320 J	field duplicate results
ST-06-SURFACE GRAB	EPA1668C	PCB-081	2.7 U	pg/g	2.7 UJ	field duplicate results

Sample ID	Method	Analyte Name	Lab Result	Units	Final Result	Qualification Reason
ST-06-SURFACE GRAB	EPA1668C	PCB-090/101/113	160 B	pg/g	160 J+	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-095	47 B	pg/g	47 J+	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-129/138/163	120 B	pg/g	120 J+	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-135/151	25 J B	pg/g	54 U	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-147/149	59 B	pg/g	59 J+	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-153/168	73 B	pg/g	73 J+	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-174	27 B	pg/g	27 J+	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-180/193	54 B	pg/g	54 J+	method blank
ST-06-SURFACE GRAB	EPA1668C	PCB-183	13 J B	pg/g	27 U	method blank
ST-06-SURFACE GRAB	SW6020	Cadmium	6.9	mg/kg	6.9 J	field duplicate results
ST-13-COAL LAYER	EPA1668C	PCB-001	3 J q B	pg/g	29 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-002	6.1 J B	pg/g	29 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-003	12 J B	pg/g	29 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-011	28 J B	pg/g	150 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-016	9.8 J q	pg/g	9.8 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-018/030	31 J B	pg/g	290 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-020/028	260 J B	pg/g	440 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-021/033	44 J q B	pg/g	290 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-031	170 B	pg/g	170 J+	method blank
ST-13-COAL LAYER	EPA1668C	PCB-044/047/065	99 J B	pg/g	440 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-046/069	77 J B	pg/g	290 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-052	100 J B	pg/g	150 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-061/070/074/076	330 J B	pg/g	580 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-063	8.9 J q	pg/g	8.9 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-064	87 J B	pg/g	150 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-088/091	7.1 J q	pg/g	7.1 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-090/101/113	51 J B	pg/g	440 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-107/124	2 J q	pg/g	2.0 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-095	33 J B	pg/g	150 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-110/115	71 J B	pg/g	290 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-114	1.5 J q	pg/g	1.5 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-123	2.1 J q	pg/g	2.1 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-129/138/163	44 J B	pg/g	440 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-141	6 J q	pg/g	6.0 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-147/149	29 J B	pg/g	290 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-153/168	36 J B	pg/g	290 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-174	12 J B	pg/g	150 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-178	2.1 J q	pg/g	2.1 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-179	4.3 J q	pg/g	4.3 J+	theoretical ion ratio

Sample ID	Method	Analyte Name	Lab Result	Units	Final Result	Qualification Reason
ST-13-COAL LAYER	EPA1668C	PCB-180/193	29 J B	pg/g	290 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-183	7.8 J B	pg/g	150 U	method blank
ST-13-COAL LAYER	EPA1668C	PCB-195	2.7 J q	pg/g	2.7 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-201	1 J q	pg/g	1.0 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-202	2.2 J q	pg/g	2.2 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-206	4.7 J q	pg/g	4.7 J+	theoretical ion ratio
ST-13-COAL LAYER	EPA1668C	PCB-208	0.84 J q	pg/g	0.84 J+	theoretical ion ratio
ST-13-SAND LAYER	EPA1668C	PCB-001	1 J B	pg/g	26 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-002	1.3 J B q	pg/g	26 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-003	5.2 J B	pg/g	26 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-011	5.1 J B q	pg/g	26 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-015	6.5 J q	pg/g	6.5 J+	theoretical ion ratio
ST-13-SAND LAYER	EPA1668C	PCB-018/030	3 J B	pg/g	51 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-020/028	17 J B	pg/g	77 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-021/033	4.1 J B	pg/g	51 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-026/029	1.4 J q	pg/g	1.4 J+	theoretical ion ratio
ST-13-SAND LAYER	EPA1668C	PCB-031	13 J B	pg/g	26 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-044/047/065	7.7 J B	pg/g	77 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-046/069	5 J B	pg/g	51 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-052	7.1 J B	pg/g	26 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-061/070/074/076	22 J B	pg/g	100 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-064	4.8 J B	pg/g	26 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-066	18 J B	pg/g	26 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-085/116/117	1.6 J q	pg/g	1.6 J+	theoretical ion ratio
ST-13-SAND LAYER	EPA1668C	PCB-088/091	0.81 J q	pg/g	0.81 J+	theoretical ion ratio
ST-13-SAND LAYER	EPA1668C	PCB-090/101/113	4.5 J B	pg/g	77 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-095	2.9 J B	pg/g	26 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-110/115	6.8 J B	pg/g	51 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-118	6.9	pg/g	6.9 J+	method blank
ST-13-SAND LAYER	EPA1668C	PCB-128/166	0.64 J q	pg/g	0.64 J+	theoretical ion ratio
ST-13-SAND LAYER	EPA1668C	PCB-129/138/163	2.8 J B q	pg/g	77 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-146	0.42 J q	pg/g	0.42 J+	theoretical ion ratio
ST-13-SAND LAYER	EPA1668C	PCB-147/149	2.2 J B	pg/g	51 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-153/168	2.4 J B	pg/g	51 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-170	0.61 J q	pg/g	0.61 J+	theoretical ion ratio
ST-13-SAND LAYER	EPA1668C	PCB-180/193	2.2 J B	pg/g	51 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-183	0.5 J B q	pg/g	26 U	method blank
ST-13-SAND LAYER	EPA1668C	PCB-187	1.2 J q	pg/g	1.2 J+	theoretical ion ratio
ST-13-SAND LAYER	EPA1668C	PCB-194	0.71 J q	pg/g	0.71 J+	theoretical ion ratio

Sample ID	Method	Analyte Name	Lab Result	Units	Final Result	Qualification Reason
ST-13-SAND LAYER	EPA1668C	PCB-202	0.34 J q	pg/g	0.34 J+	theoretical ion ratio
ST-13-SAND LAYER	EPA1668C	PCB-208	0.34 J q	pg/g	0.34 J+	theoretical ion ratio
RB-20200819	SW6020	Zinc	0.0021 J B	mg/L	0.0070 U	method blank

APPENDIX E – IDW DISPOSAL RECORDS

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CESQG	1	800-337-7455	OR345766-01

GENERATOR

5. Generator's Name and Mailing Address
WA Department of Ecology Upriver Dam
4601 N. Monroe Street
Spokane WA 99205
Generator's Phone: 509 329-3611

Att: Brendan Dowling

Generator's Site Address (if different than mailing address)
WA Department of Ecology Upriver Dam
Latitude 47.697097 Longitude -117.323558
Spokane WA 99212

6. Transporter 1 Company Name
DH Environmental Inc.
U.S. EPA ID Number
WAH000047217

7. Transporter 2 Company Name
Chemical Waste Management
U.S. EPA ID Number
ORD089452353

8. Designated Facility Name and Site Address
CHEMICAL WASTE MANAGEMENT, INC
17629 CEDAR SPRINGS LANE
ARLINGTON OR 97812
Facility's Phone: 541 454-2643
U.S. EPA ID Number
ORD089452353

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA, non-DOT (IDW Sediment/Water)	004	DF	160	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1) Profile# OR345766

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Brendan Dowling
Signature:
Month: 10 Day: 14 Year: 20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Travis Forshaw
Signature:
Month: 10 Day: 14 Year: 20

Transporter 2 Printed/Typed Name: FELIX LAUFATY
Signature:
Month: 10 Day: 16 Year: 20

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name Signature Month Day Year

WASTE MANAGEMENT

EZ Profile™

Requested Facility: Chemical Waste Management (Hazardous Waste Facility) ❑ Unsure Profile Number: OR345766
❑ Multiple Generator Locations (Attach Locations) ❑ Request Certificate of Disposal ❑ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: WA Department of Ecology Upriver Dam
2. Site Address: Latitude 47.687087 Longitude -117.323558
   (City, State, ZIP) Spokane WA 99212
3. County: Spokane
4. Contact Name: Brendan Dowling
5. Email: bdow461@ecy.wa.gov
6. Phone: (509) 329-3611 7. Fax: _____
8. Generator EPA ID: CESQG ❑ N/A
9. State ID: _____ ☑ N/A

B. BILLING INFORMATION ❑ SAME AS GENERATOR

1. Billing Name: DH Environmental, Inc.
2. Billing Address: 1011 SW Klickitat Way, Suite 107
   (City, State, ZIP) Seattle WA 98134
3. Contact Name: Scott St John
4. Email: scottstjohn@dhenviro.com
5. Phone: (206) 327-0026 6. Fax: _____
7. WM Hauled? ❑ Yes ❑ No
8. P.O. Number: _____
9. Payment Method: ❑ Credit Account ❑ Cash ❑ Credit Card

C. MATERIAL INFORMATION

1. Common Name: STAB15: Sediment IDW
   Describe Process Generating Material: ❑ See Attached

   Surface sediment sampling of a remediation cap installed to prevent the spread of historical contamination. Site is CESQG would otherwise designate as WT02.

2. Material Composition and Contaminants: ❑ See Attached

1. Sediment	10-25 %
2. River water	75-90 %
3. Zinc	3000 mg/kg
4. Lead	400 mg/kg
Total comp. must be equal to or greater than 100%	≥100%

3. State Waste Codes: _____ ☑ N/A
4. Color: Brown
5. Physical State at 70˚F: ☑ Solid ☑ Liquid ❑ Other: _____
6. Free Liquid Range Percentage: 10 to 90 ❑ N/A
7. pH: 5 to 9 ❑ N/A
8. Strong Odor: ❑ Yes ☑ No Describe: _____
9. Flash Point: ❑ <140˚F ❑ 140˚–199˚F ☑ ≥200˚ ❑ N/A

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ❑ Yes* ☑ No
   Code: _____
2. State Hazardous Waste? ☑ Yes ❑ No
   Code: X007
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ❑ Yes* ☑ No
4. Contains Underlying Hazardous Constituents? ❑ Yes* ☑ No
5. From an industry regulated under Benzene NESHAP? ❑ Yes* ☑ No
6. Facility remediation subject to 40 CFR 63 GGGGG? ❑ Yes* ☑ No
7. CERCLA or State-mandated clean-up? ❑ Yes* ☑ No
8. NRC or State-regulated radioactive or NORM waste? ❑ Yes* ☑ No

***If Yes, see Addendum (page 2) for additional questions and space.**

9. Contains PCBs? → If Yes, answer a, b and c. ☑ Yes ❑ No
   a. Regulated by 40 CFR 761? ❑ Yes ☑ No
   b. Remediation under 40 CFR 761.61 (a)? ❑ Yes ☑ No
   c. Were PCB imported into the US? ❑ Yes ☑ No
10. Regulated and/or Untreated Medical/Infectious Waste? ❑ Yes ☑ No
11. Contains Asbestos? ❑ Yes ☑ No
    → If Yes: ❑ Non-Friable ❑ Non-Friable – Regulated ❑ Friable

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☑ Yes
   Please identify applicable samples and/or lab reports:

   Full report represents the waste stream. Sample ID ST-10-Surface Grab was used to designated total metals. All metals passed TCLP

2. Other information attached (such as MSDS)? ❑ Yes

F. SHIPPING AND DOT INFORMATION

1. ☑ One-Time Event ❑ Repeat Event/Ongoing Business
2. Estimated Quantity/Unit of Measure: 1
   ❑ Tons ❑ Yards ☑ Drums ❑ Gallons ❑ Other: _____
3. Container Type and Size: 30 gal DM
4. USDOT Proper Shipping Name: ❑ N/A
   Material Not Regulated by DOT (Washington State Dangerous Only, Toxic)

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this EZ Profile™ form, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to Waste Management prior to providing the material to Waste Management.

☑ I am an Authorized Agent signing on behalf of the Generator, and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.

Name (Print): Scott St. John Date: 10/08/2020

Title: Director of Project Services

Company: DH Environmental

Certification Signature

Scott St. John

0fda9d442a...

EZ Profile™ Addendum

Only complete this Addendum if prompted by responses on EZ Profile™ (page 1) or to provide additional information. Sections and question numbers correspond to EZ Profile™.

Profile Number: OR345766

C. MATERIAL INFORMATION

Describe Process Generating Material (Continued from page 1): If more space is needed, please attach additional pages.

Material Composition and Contaminants (Continued from page 1): If more space is needed, please attach additional pages.

5. Copper	34 mg/kg
6. Cadmium	29 mg/kg
7. Arsenic	21 mg/kg
8.	
9.	
Total composition must be equal to or greater than 100%	≥100%

D. REGULATORY INFORMATION

Only questions with a "Yes" response in Section D on the EZ Profile™ form (page 1) need to be answered here.

1. EPA Hazardous Waste
   a. Please list all USEPA listed and characteristic waste code numbers:
   b. Is the material subject to the Alternative Debris standards (40 CFR 268.45)? ❑ Yes ❑ No
   c. Is the material subject to the Alternative Soil standards (40 CFR 268.49)? → If Yes, complete question 4. ❑ Yes ❑ No
   d. Is the material exempt from Subpart CC Controls (40 CFR 264.1083)? ❑ Yes ❑ No
      → If Yes, please check **one** of the following:
      ❑ Waste meets LDR or treatment exemptions for organics (40 CFR 264.1082(c)(2) or (c)(4))
      ❑ Waste contains VOCs that average <500 ppmw (CFR 264.1082(c)(1)) – will require annual update.
2. State Hazardous Waste → Please list all state waste codes: _____
3. For material that is Treated, Delisted, or Excluded → Please indicate the category, below:
   ❑ Delisted Hazardous Waste ❑ Excluded Waste under 40 CFR 261.4 → Specify Exclusion: _____
   ❑ Treated Hazardous Waste Debris ❑ Treated Characteristic Hazardous Waste → If checked, complete question 4.
4. Underlying Hazardous Constituents → Please list all Underlying Hazardous Constituents:
5. Industries regulated under Benzene NESHAP include petroleum refineries, chemical manufacturing plants, coke by-product recovery plants, and TSDFs.
   a. Are you a TSDF? → If yes, please complete Benzene NESHAP questionnaire. If not, continue. ❑ Yes ❑ No
   b. Does this material contain benzene? ❑ Yes ❑ No
      1. If yes, what is the flow weighted average concentration? _____ ppmw
   c. What is your facility's current total annual benzene quantity in Megagrams? ❑ <1 Mg ❑ 1–9.99 Mg ❑ ≥10 Mg
   d. Is this waste soil from a remediation? ❑ Yes ❑ No
      1. If yes, what is the benzene concentration in remediation waste? _____ ppmw
   e. Does the waste contain >10% water/moisture? ❑ Yes ❑ No
   f. Has material been treated to remove 99% of the benzene or to achieve <10 ppmw? ❑ Yes ❑ No
   g. Is material exempt from controls in accordance with 40 CFR 61.342? ❑ Yes ❑ No
      → If yes, specify exemption: _____
   h. Based on your knowledge of your waste and the BWON regulations, do you believe that this waste stream is subject to treatment and control requirements at an off-site TSDF? ❑ Yes ❑ No
6. 40 CFR 63 GGGGG → Does the material contain <500 ppmw VOHAPs at the point of determination? ❑ Yes ❑ No
7. CERCLA or State-Mandated clean up → Please submit the Record of Decision or other documentation with process information to assist others in the evaluation for proper disposal. A "Determination of Acceptability" may be needed for CERCLA wastes not going to a CERCLA approved facility.
8. NRC or state regulated radioactive or NORM Waste → Please identify Isotopes and pCi/g: _____

Revised June 30, 2015

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

Laboratory Job ID: 580-96897-2
Client Project/Site: Upriver Dam Sediment Sampling, Spokane WA

For:
DH Environmental, Inc
1011 SW Klickitat Way
Suite 210
Seattle, Washington 98134

Attn: Mr. Nathan Moxley

Authorized for release by:
9/24/2020 11:01:45 AM

Ashley Worthy, Project Manager I
(253)248-4965
Ashley.Worthy@Eurofinset.com

Table of Contents

Job ID: 580-96897-2

Laboratory: Eurofins TestAmerica, Seattle

Narrative

Job Narrative
580-96897-2

Comments
No additional comments.

Receipt
The samples were received on 8/20/2020 9:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.5º C.

Metals
Method 7470A: The following sample was received outside of holding time: ST-10-SURFACE GRAB (580-96897-9).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method 1311: Client requested Hg after hold-time expired. Processed according to client request.

ST-10-SURFACE GRAB (580-96897-9)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Definitions/Glossary

Client: DH Environmental, Inc
Job ID: 580-96897-2
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client: DH Environmental, Inc
Job ID: 580-96897-2
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-10-SURFACE GRAB
Lab Sample ID: 580-96897-9
Date Collected: 08/19/20 08:45
Matrix: Solid
Date Received: 08/20/20 09:20

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.023**	**J**	0.060	0.0072	mg/L		09/23/20 07:45	09/23/20 17:49	1
Barium	**0.34**	**B**	0.020	0.0039	mg/L		09/23/20 07:45	09/23/20 17:49	1
Cadmium	**0.0029**	**J**	0.020	0.00050	mg/L		09/23/20 07:45	09/23/20 17:49	1
Chromium	ND		0.025	0.0033	mg/L		09/23/20 07:45	09/23/20 17:49	1
Lead	**0.13**		0.030	0.0027	mg/L		09/23/20 07:45	09/23/20 17:49	1
Selenium	ND		0.10	0.0087	mg/L		09/23/20 07:45	09/23/20 17:49	1
Silver	ND		0.050	0.0085	mg/L		09/23/20 07:45	09/23/20 17:49	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND	H	0.00030	0.00015	mg/L		09/23/20 07:48	09/23/20 11:53	1

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 580-338795/1-B
Matrix: Solid
Analysis Batch: 339006

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 338865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.060	0.0072	mg/L		09/23/20 07:45	09/23/20 17:24	1
Barium	0.00560	J	0.020	0.0039	mg/L		09/23/20 07:45	09/23/20 17:24	1
Cadmium	ND		0.020	0.00050	mg/L		09/23/20 07:45	09/23/20 17:24	1
Chromium	ND		0.025	0.0033	mg/L		09/23/20 07:45	09/23/20 17:24	1
Lead	ND		0.030	0.0027	mg/L		09/23/20 07:45	09/23/20 17:24	1
Selenium	ND		0.10	0.0087	mg/L		09/23/20 07:45	09/23/20 17:24	1
Silver	ND		0.050	0.0085	mg/L		09/23/20 07:45	09/23/20 17:24	1

Lab Sample ID: LCS 580-338795/2-B
Matrix: Solid
Analysis Batch: 339006

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 338865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.03		mg/L		103	80 - 120
Barium	1.00	1.04		mg/L		104	80 - 120
Cadmium	1.00	1.07		mg/L		107	80 - 120
Chromium	1.00	1.04		mg/L		104	80 - 120
Lead	1.00	1.05		mg/L		105	80 - 120
Selenium	1.00	1.05		mg/L		105	80 - 120
Silver	1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: LCSD 580-338795/3-B
Matrix: Solid
Analysis Batch: 339006

Client Sample ID: Lab Control Sample Dup
Prep Type: TCLP
Prep Batch: 338865

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.00	0.865		mg/L		87	80 - 120	17	20
Barium	1.00	0.868		mg/L		87	80 - 120	18	20
Cadmium	1.00	0.891		mg/L		89	80 - 120	18	20
Chromium	1.00	0.869		mg/L		87	80 - 120	18	20
Lead	1.00	0.881		mg/L		88	80 - 120	18	20
Selenium	1.00	0.875		mg/L		88	80 - 120	18	20
Silver	1.00	0.868		mg/L		87	80 - 120	19	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 580-338866/16-A
Matrix: Solid
Analysis Batch: 338930

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 338866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00030	0.00015	mg/L		09/23/20 07:48	09/23/20 11:38	1

Lab Sample ID: LCS 580-338866/17-A
Matrix: Solid
Analysis Batch: 338930

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 338866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00214		mg/L		107	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 580-338866/18-A
Matrix: Solid
Analysis Batch: 338930

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 338866

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.00200	0.00212		mg/L		106	80 - 120	1	20

Lab Chronicle

Client: DH Environmental, Inc
Job ID: 580-96897-2
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Client Sample ID: ST-10-SURFACE GRAB
Lab Sample ID: 580-96897-9

Date Collected: 08/19/20 08:45
Matrix: Solid
Date Received: 08/20/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			338795	09/22/20 11:14	ART	TAL SEA
TCLP	Prep	3010A			338865	09/23/20 07:45	ART	TAL SEA
TCLP	Analysis	6010D		1	339006	09/23/20 17:49	TMH	TAL SEA
TCLP	Leach	1311			338795	09/22/20 11:14	ART	TAL SEA
TCLP	Prep	7470A			338866	09/23/20 07:48	ART	TAL SEA
TCLP	Analysis	7470A		1	338930	09/23/20 11:53	FCW	TAL SEA

Laboratory References:

TAL SEA = Eurofins TestAmerica, Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: DH Environmental, Inc
Job ID: 580-96897-2
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Laboratory: Eurofins TestAmerica, Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C553	02-18-21

Sample Summary

Client: DH Environmental, Inc
Job ID: 580-96897-2
Project/Site: Upriver Dam Sediment Sampling, Spokane WA

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
580-96897-9	ST-10-SURFACE GRAB	Solid	08/19/20 08:45	08/20/20 09:20	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush

☐ Short Hold

Chain of Custody Record

Client: DH Environmental	Client Contact: Nathan Moxley	Date: 8/20/2020	Chain of Custody Number: 39510
Address: 1011 SW Klickitat Way, #107	Telephone Number (Area Code)/Fax Number: 509-332-9281	Lab Number:	Page 1 of 2
City: Seattle; State: WA; Zip Code: 98134	Sampler: N. Moxley	Lab Contact: Ashley Worthy	
Project Name and Location (State): Upriver Dam Sediment Sampling, Spokane, WA	Billing Contact: N. Moxley		
Contract/Purchase Order/Quote No.: 58014958			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Matrix: Aqueous	Matrix: Sed.	Matrix: Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	PCBs (8082A)	PCBs (1668C)	Metals* (6020A)
ST-01-Surface Grab	8/18/2020	1100			X			3						X	X	X
ST-02-Surface Grab	↓	1128			↓			↓						↓	↓	↓
ST-03-Surface Grab	↓	1155			↓			↓						↓	↓	↓
ST-04-Surface Grab	↓	1230			↓			↓						↓	↓	↓
ST-11-Sand layer	↓	1400			↓			2						X	X	
ST-05-Surface Grab	↓	1425			↓			3						X	X	X
ST-12-coal layer	↓	1505			↓			2						X	X	
Duplicate-1	8/19/2020	0730			↓			3						X	X	X
ST-10-Surface Grab	↓	0845			↓			3						X	X	X
ST-15-Coal layer	↓	0940			↓			2						X	X	
ST-08-Surface Grab	↓	1015			↓			3						X	X	X
ST-14-Coal layer	↓	1110			↓			2						X	X	

580-96897 Chain of Custody

Therm. ID: IR8 Cor: 4.5° Unc: 5.0°
Cooler Dsc: LG
Packing: Bub
Cust. Seal: Yes ___ No ✓
Blue Ice, (Wet), Dry, None
FedEx: ___
UPS: ___
Lab Cour: ___
Other: Clidro

Cooler: ☐ Yes ☐ No Cooler Temp: ______

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☒ Archive For 1 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☒ 15 Days ☐ Other ______

QC Requirements (Specify):

	Sign/Print	Date	Time
1. Relinquished By	[signature] Nathan Moxley, DH Environmental	8/20/2020	0920
1. Received By	[signature]	8/20/20	0920
2. Relinquished By			
2. Received By			
3. Relinquished By			
3. Received By			

Comments: 1) * Metals include: As, Cd, Cu, Pb, Zn 2) Please hold remaining sample volume for possible follow-up analysis 3) Please provide WA State EIM Compatible EDD

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

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TestAmerica Seattle
5755 8th Street E.
Tacoma, WA 98424
Tel. 253-922-2310
Fax 253-922-5047
www.testamericainc.com

☐ Rush
☐ Short Hold

Chain of Custody Record

Client	Client Contact	Date	Chain of Custody Number
DH Environmental	Nathan Moxley		39509
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 2 of 2
1011 SW Klickitat Way, #107	509-332-9281		
City / **State** / **Zip Code**	**Sampler**	**Lab Contact**	
Seattle / WA / 98134	N. Moxley	Ashley Worthy	
Project Name and Location (State)	**Billing Contact**		
Upriver Dam Sediment Sampling, Spokane, WA	N. Moxley		
Contract/Purchase Order/Quote No.			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: PCBs (8082A)	PCBs (1668c)	Metals* (6020A)	Special Instructions/ Conditions of Receipt
ST-06 - Surface Grab	8/19/2020	1205			X		3						X	X	X	
ST-13 - coal layer	↓	1330			↓		2						X	X		
ST-13 - sand layer		1340					2						X	X		
RB - 20200819		1355		X			2		1				X		X	

Cooler: ☐ Yes ☐ No Cooler Temp: _____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☒ Archive For 1 Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☒ 15 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Nathan Moxley, DH Environmental	8/20/2020	0920	1. Received By Sign/Print:	8/20/20	0920
2. Relinquished By Sign/Print:			2. Received By Sign/Print:		
3. Relinquished By Sign/Print:			3. Received By Sign/Print:		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-5[illegible] 9/24/2020

Login Sample Receipt Checklist

Client: DH Environmental, Inc

Job Number: 580-96897-2

Login Number: 96897
List Number: 1
Creator: Vallelunga, Diana L

List Source: Eurofins TestAmerica, Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	