Stantec Consulting Services Inc.
3900 C Street, Suite 902
Anchorage AK 99503-5938

November 26, 2024

Project/File: 203723261

Jason Michelson, Operations Lead
Chevron Environmental Management Company
1500 Louisiana Street, Floor 38
Houston, Texas 77002

Dear Mr. Michelson,

Reference: Swanson River Unit - Plant 10 Annual PCB Monitoring Report
File Number 2334.38.016, Hazard ID 1303

Stantec has prepared this letter report on behalf of Chevron Environmental Management Company (CEMC), providing the results of semi-annual sampling as established in Amendment #4 to the Order by Consent (OBC) for Compressor Plant 10 (Plant 10) at the Swanson River facility. The OBC was originally issued by the U.S. Fish and Wildlife Service (USFWS) on August 6, 1985, and Amendment #4 was issued on September 5, 1990.

The polychlorinated biphenyl (PCB) contamination at Plant 10 is believed to originate from a January 1972 explosion and fire at the compressor plant that released an undetermined amount of Aroclor 1248 heat transfer oil to the environment. Historical minor leaks and spills from the heat transfer fluid system may have also contributed to the PCB contamination, and Aroclor 1242 and Aroclor 1248 are listed as the primary contaminants of concern in the OBC. Remediation actions were completed at the plant in 1988-89 in response to the OBC, during which the PCB contaminated soils were remediated to the OBC cleanup level of 12 ppm and the site was listed as “Cleanup Complete with Institutional Controls” (ADEC File Number 2334.38.016, Hazard ID 175). Amendment #4 was issued in 1990 to allow for the remaining PCBs to remain in the soil beneath the compressor plant until permanent closure of the field or until PCBs are detected in the groundwater. Semi-annual sampling of the four monitoring wells around Plant 10 is a mandatory requirement of the amendment.

In accordance with Amendment #4 of the OBC, PCB groundwater monitoring was conducted twice in 2024, on May 15th and September 24th. On both occasions groundwater samples were collected from the four existing monitoring wells at Plant 10 (CP-A, CP-BR, CP-C, and CP-F) utilizing low-flow purge and sample techniques in accordance with Environmental Protection Agency (EPA) sampling procedures. Water quality parameters and water level measurements were collected and recorded on sample forms and the samples were analyzed by SGS North America for PCBs using EPA Method 8082A.

Reference: Swanson River Unit - Plant 10 Annual Report

This letter report includes three attachments:

- Attachment A includes the current and historical analytical results for Plant 10,
- Attachment B includes the laboratory reports and laboratory data review checklists, and
- Attachment C includes a site location map and Plant 10 well locations.

Table 1 (Attachment A) shows that all 2024 sample results continue to be non-detectable (ND) at concentrations above the method detection limit (DL). The DL for each individual PCB and total PCBs was used to compare to cleanup levels. For all samples, there were no detections or DLs above the cleanup levels established by the OBC. Table 1 continues to show that only one sampling event (October 2006 at one location, CP-A) had detectable total PCBs over the entire 24-year sampling and analysis record.

In accordance with the OBC, Amendment #4, and ADEC's letter of January 31, 2017, semi-annual groundwater sampling is currently planned for 2025 at Plant 10.

If you have any questions regarding this letter report, please contact me.

Best regards,

Stantec Consulting Services Inc.

Craig Wilson
Principal
Phone: (907) 266-1128
craig.wilson@stantec.com

stantec.com

Attachment: Attachment A Summary of Current and Historical Analytical Results
Attachment B Laboratory Reports and ADEC Laboratory Data Review Checklists
Attachment C Figure

Cc. Peter Campbell, ADEC (via email)
Steve Miller, USFWS (via email)
Sharon L. Yarawsky, BLM (via email)
Michelle Mullin, EPA Region 10 (via email)

Attachment A

Table 1. Plant 10 Current and Historical Groundwater Analytical Results and Groundwater Elevations

	CP-A			CP-BR			CP-C			CP-F		
Date	Depth to Groundwater (ft)	Groundwater Elevation AMSL (ft)	PCB (µg/L)	Depth to Groundwater (ft)	Groundwater Elevation AMSL (ft)	PCB (µg/L)	Depth to Groundwater (ft)	Groundwater Elevation AMSL (ft)	PCB (µg/L)	Depth to Groundwater (ft)	Groundwater Elevation AMSL (ft)	PCB (µg/L)
ADEC Groundwater Cleanup Levels [a]			**0.5**	**—**	**—**	**0.5**	**—**	**—**	**0.5**	**—**	**—**	**0.5**
10/19/2000	11.51	156.40	*ND(0.51)*	15.42	152.96	*ND(0.51)*	10.59	158.10	*ND(0.51)*	11.44	158.04	*ND(0.51)/ ND(0.53)*
6/26/2001	9.01	158.90	*ND(0.50)*	16.34	152.04	*ND(0.50)/ ND(0.050)*	10.87	157.81	*ND(0.50)*	10.88	158.61	*ND(0.53)*
10/19/2001	10.84	157.07	*ND(0.51)*	17.66	150.72	*ND(0.53)*	10.28	158.41	*ND(0.53)*	11.99	157.49	*ND(0.50)/ ND(0.50)*
6/30/2002	6.53	161.38	*ND(0.51)*	16.99	151.39	*ND(0.51)*	8.98	159.71	*ND(0.053)/ ND(0.53)*	5.95	163.53	*ND(0.51)*
10/29/2002	7.58	160.33	*ND(0.50)*	13.59	154.79	*ND(0.050)*	9.31	159.38	*ND(0.050)*	8.67	160.81	*ND(0.50)/ ND(0.50)*
5/14/2003	9.99	157.95	ND(0.052)	16.19	151.86	*ND(0.051)*	11.22	157.33	*ND(0.51)*	11.58	158.12	*ND(0.51)/ ND(0.52)*
10/8/2003	6.22	162.54	ND(0.054)	10.11	157.94	ND(0.053)	10.62	157.93	*ND(0.53)*	7.16	162.72	*ND(0.54)/ ND(0.54)*
5/17/2004	6.23	161.71	*ND(1.0)*	8.32	159.73	*ND(1.0)*	9.01	159.54	*ND(1.0)*	7.46	162.24	*ND(1.0)/ ND(1.0)*
10/20/2004	5.42	162.52	*ND(1.0)*	9.09	158.96	*ND(1.0)*	6.85	161.70	*ND(1.0)*	7.10	162.60	*ND(1.0)/ ND(1.0)*
5/19/2005	5.83	162.11	*ND(1.0)*	9.03	159.02	*ND(1.0)*	8.61	161.85	*ND(1.0)*	6.70	161.10	*ND(1.0)/ ND(1.0)*
11/8/2005	6.84	161.10	*ND(0.95)*	9.65	158.40	*ND(0.95)*	8.05	160.50	*ND(0.95)*	8.45	161.25	*ND(0.95)/ ND(0.95)*
6/22/2006	9.40	158.54	*ND(0.97)*	12.83	155.22	*ND(0.94)*	10.16	158.39	*ND(0.96)*	9.49	160.21	*ND(0.96)/ ND(0.96)*
10/13/2006	4.88	163.06	**1.55**	7.94	160.11	*ND(0.48)*	6.45	162.10	*ND(0.48)*	6.41	163.29	*ND(0.48)/ ND(0.47)*
5/18/2007	10.93	157.01	*ND(0.48)*	14.77	153.28	*ND(0.48)*	9.90	158.65	*ND(0.48)*	13.08	156.62	*ND(0.48)/ ND(0.48)*
11/8/2007	5.82	162.12	*ND(0.48)*	10.42	157.63	*ND(0.47)*	7.48	161.07	*ND(0.48)*	8.28	161.42	*ND(0.49)/ ND(0.49)*
6/4/2008	7.84	160.10	*ND(0.57)*	13.93	154.12	*ND(0.57)*	10.84	157.71	*ND(0.57)*	11.87	157.83	*ND(0.57)/ ND(1.1)*
11/17/2008	8.40	159.54	ND(0.19)	11.74	156.31	ND(0.095)	8.78	159.77	ND(0.097)	9.01	160.69	*ND(0.10)/ ND(0.19)*
6/15/2009	9.52	158.42	ND(0.095)	13.69	154.36	ND(0.095)	10.03	158.52	ND(0.095)	11.75	157.95	ND(0.095)/ ND(0.095)
11/18/2009	12.84	155.10	*ND(0.48)*	18.19	149.86	*ND(0.48)*	12.03	156.52	*ND(0.48)*	14.71	155.53	*ND(0.48)/ ND(0.48)*
5/11/2010	12.57	155.37	*ND(0.48)*	24.04	144.01	*ND(0.48)*	10.61	157.94	*ND(0.47)/ ND(0.48)*	Dry		
11/30/2010	10.45	157.49	ND(0.0952)	18.81	149.24	ND(0.191)	9.66	158.89	ND(0.0978)/ ND(0.0964)	11.52	158.18	ND(0.188)
7/26/2011	13.42	154.52	*ND(0.63)*	22.02	146.03	*ND(0.47)/ ND(0.47)*	11.53	157.02	*ND(0.47)*	Off-limits due to Plant 10 demolition		
12/26/2011	10.08	157.86	ND(0.194)	15.34	152.71	ND(0.196)	8.63	159.92	ND(0.192)	10.50	159.20	ND(0.191)/ ND(0.191)
6/1/2012	7.50	160.44	*ND(0.49)*	11.90	156.15	*ND(0.49)*	8.82	159.73	*ND(0.48)*	9.12	160.58	*ND(0.48)*
1/13/2013	12.65	155.29	ND(0.095)	15.52	152.53	ND(0.101)/ ND(0.099)	11.08	157.47	ND(0.095)	11.62	158.08	ND(0.099)
6/26/2013	4.73	163.21	ND(0.347)	6.90	161.15	ND(0.354)	7.43	161.12	ND(0.350)	5.80	163.90	ND(0.373)

Attachment A

Table 1. Plant 10 Current and Historical Groundwater Analytical Results and Groundwater Elevations

	CP-A			CP-BR			CP-C			CP-F		
Date	Depth to Groundwater (ft)	Groundwater Elevation AMSL (ft)	PCB (µg/L)	Depth to Groundwater (ft)	Groundwater Elevation AMSL (ft)	PCB (µg/L)	Depth to Groundwater (ft)	Groundwater Elevation AMSL (ft)	PCB (µg/L)	Depth to Groundwater (ft)	Groundwater Elevation AMSL (ft)	PCB (µg/L)
ADEC Groundwater Cleanup Levels [a]			**0.5**	**—**	**—**	**0.5**	**—**	**—**	**0.5**	**—**	**—**	**0.5**
10/15/2013	5.60	162.34	ND(0.352)	10.01	158.04	ND(0.343)	6.26	162.29	ND(0.336)	6.80	162.90	ND(0.359)
6/23/2014	PVC riser damaged [b]		ND(0.358)	13.29	154.76	ND(0.370)	9.85	158.70	ND(0.350)	10.55	159.15	ND(0.363)
10/9/2014			ND(0.358)	11.10	156.95	ND(0.361)	13.20	155.35	ND(0.336)	8.12	161.58	ND(0.350)
7/8/2015	3.33	165.55	*ND(0.604)*	12.93	155.93	*ND(0.606)*	8.09	161.86	*ND(0.585)*	3.66	166.88	*ND(0.600)*
10/2/2015	4.29	164.59	ND(0.226)	9.16	159.70	ND(0.226)	5.24	164.71	ND(0.226)	5.09	165.45	ND(0.226)
8/3/2016	11.68	157.20	ND(0.160)	15.06	153.80	ND(0.180)	11.80	158.15	ND(0.180)	12.26	158.28	ND(0.175)
9/29/2016	15.30	153.75	ND(0.229)	11.26	157.60	ND(0.182)	7.83	162.12	ND(0.184)	17.98	152.56	ND(0.229)
7/7/2017[c]	12.17	156.71	ND(0.099)/ ND(0.099)	20.62	148.24	ND(0.10)	10.56	159.39	ND(0.097)	14.53	156.01	ND(0.098)
9/21/2017[c]	7.04	161.84	ND(0.098) JS-/ ND(0.10)	12.80	156.06	ND(0.096) JS-	9.59	160.36	ND(0.10)	8.72	161.82	ND(0.11) JS-
ADEC Groundwater Cleanup Levels [e]			**0.44**	**—**	**—**	**0.44**	**—**	**—**	**0.44**	**—**	**—**	**0.44**
7/15/2018[d]	10.30	158.58	ND[0.076] JS- / ND[0.077]	13.52	155.34	ND[0.076]	11.34	158.61	ND[0.077]	11.47	159.07	ND[0.076] JS-
9/22/2018[d]	12.05	156.83	ND[0.077] / ND[0.081]	15.33	153.53	ND[0.082]	11.70	158.25	ND[0.073]	12.32	158.22	ND[0.076] JS-
8/2/2019[f]	12.28	156.60	ND [0.333]	14.84	154.02	ND [0.320]	11.91	158.04	ND [0.341]	13.10	157.44	ND [0.344]
7/25/2020[f]	10.14	158.74	ND[0.0326]	12.85	156.01	ND[0.0369]	10.15	159.80	ND[0.0326]	10.43	160.11	ND[0.0365]
9/11/2020[f]	15.35	153.53	ND[0.0323]	12.38	156.48	ND[0.0348]	11.06	158.89	ND[0.0344]	17.80	152.74	ND[0.0323]
6/22/2021[f]	8.92	159.96	ND[0.0555]	12.39	156.47	ND[0.0580]	9.68	160.27	ND[0.0500]	10.23	160.31	ND[0.0500] / ND[0.0500]
9/23/2021[f]	10.15	158.73	ND[0.0515]	13.50	155.36	ND[0.0515]	10.77	159.18	ND[0.0550] / ND[0.0550]	10.26	160.28	ND[0.0580]
6/7/2022	8.69	160.19	ND[0.0540]	9.96	158.90	ND[0.0540]	9.49	160.46	ND[0.0550]	9.17	161.37	ND[0.0540]
9/6/2022	4.39	157.61	ND[0.0520]	7.22	161.64	ND[0.0540]	4.96	156.55	ND[0.0520]	6.45	164.09	ND[0.0510]
5/15/2023	5.04	156.96	ND[0.0515]	9.17	159.69	ND[0.0580]	6.61	154.9	ND[0.0580]	8.02	162.52	ND[0.0570]
10/16/2023	6.85	155.15	ND[0.0520]	9.28	159.58	ND[0.0530]	7.00	154.51	ND[0.0530]	8.55	161.99	ND[0.0515]
5/15/2024	5.8	156.2	ND[0.0739]	12.62	156.24	ND[0.0758]	7.30	154.21	ND[0.0743]	9.1	161.44	ND[0.0733]
9/24/2024	5.42	156.58	ND[0.0772]	7.88	160.98	ND[0.0772]	5.60	155.91	ND[0.0758]	7.41	163.13	ND[0.0795]

Notes:
Results above site-specific cleanup levels are underlined and **bolded**.
Non-detect results with reporting limits above the 2018 site-specific amended cleanup level of 0.44 µg/L are *italicized.*
2013 PCB results are for total aroclor.
Plant 10 monitoring wells were resurveyed in October 2015.
Water was discharging out of Plant 10 vent above CP-F on 7/8/15. Water was pooled around CP-F and flowing toward CP-A, which also had water pooled around the security casing.
Two sets of analytical results are reported and separated by "/" when a duplicate sample was collected.

AMSL = above mean sea level
ft = feet
— = Not applicable
JS- = One or more surrogates recovered outside of control criteria (biased low)
ND = Analyte not detected above the laboratory reporting/mthod detection limit (provided in parentheses or brackets).
PCB = polychlorinated biphenyl
µg/L = Micrograms per liter
[a] Alaska Department of Environmental Conservation (ADEC), 2017, Title 18, Alaska Administrative Code Chapter 75 (18 AAC 75), Oil and Other Hazardous Substances Pollution Control, Table C.
[b] Polyvinyl chloride (PVC) riser was damaged, and technician could not get water level indicator probe past the bulge in the damaged PVC riser.
[c] 2017 ND value in () is the TestAmerica laboratory reporting limit.
[d] 2018 ND value in [] is the TestAmerica method detection limit.
[e] ADEC 2018, 18 AAC 75, Table C. October 27, 2018.
[f] ND value in [ ] is the SGS detection limit.

Laboratory Report of Analysis

To: Stantec Consulting Services Inc.
725 East Fireweed Lane, #200
Anchorage, AK 99503
(907)248-8883

Report Number: **1242175**

Client Project: **203723261; SRU Plant 10**

Dear Mike Zidek,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1242175**
Project Name/Site: **203723261; SRU Plant 10**
Project Contact: **Mike Zidek**

Refer to sample receipt form for information on sample condition.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
CP-A	1242175001	05/15/2024	05/16/2024	Water (Surface, Eff., Ground)
CP-C	1242175002	05/15/2024	05/16/2024	Water (Surface, Eff., Ground)
CP-BR	1242175003	05/15/2024	05/16/2024	Water (Surface, Eff., Ground)
CP-F	1242175004	05/15/2024	05/16/2024	Water (Surface, Eff., Ground)
DUP	1242175005	05/15/2024	05/16/2024	Water (Surface, Eff., Ground)

Method	Method Description
SW8082A	SW8082 PCB's

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Results of **CP-A**

Client Sample ID: **CP-A**
Client Project ID: **203723261; SRU Plant 10**
Lab Sample ID: 1242175001
Lab Project ID: 1242175

Collection Date: 05/15/24 10:54
Received Date: 05/16/24 11:00
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0739	U	0.0986	0.0306	0.0739	ug/L	1		05/21/24 23:17
Aroclor-1221	0.740	U	0.986	0.306	0.740	ug/L	1		05/21/24 23:17
Aroclor-1232	0.0739	U	0.0986	0.0306	0.0739	ug/L	1		05/21/24 23:17
Aroclor-1242	0.0739	U	0.0986	0.0306	0.0739	ug/L	1		05/21/24 23:17
Aroclor-1248	0.0739	U	0.0986	0.0306	0.0739	ug/L	1		05/21/24 23:17
Aroclor-1254	0.0739	U	0.0986	0.0306	0.0739	ug/L	1		05/21/24 23:17
Aroclor-1260	0.0739	U	0.0986	0.0306	0.0739	ug/L	1		05/21/24 23:17
Surrogates									
Decachlorobiphenyl (surr)	80		40-135			%	1		05/21/24 23:17

Batch Information

Analytical Batch: XGC11504
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 05/21/24 23:17
Container ID: 1242175001-A

Prep Batch: XXX49480
Prep Method: SW3520C
Prep Date/Time: 05/20/24 13:15
Prep Initial Wt./Vol.: 1014 mL
Prep Extract Vol: 1 mL

Results of **CP-C**

Client Sample ID: **CP-C**
Client Project ID: **203723261; SRU Plant 10**
Lab Sample ID: 1242175002
Lab Project ID: 1242175

Collection Date: 05/15/24 10:11
Received Date: 05/16/24 11:00
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0743	U	0.0990	0.0307	0.0743	ug/L	1		05/21/24 23:27
Aroclor-1221	0.742	U	0.990	0.307	0.742	ug/L	1		05/21/24 23:27
Aroclor-1232	0.0743	U	0.0990	0.0307	0.0743	ug/L	1		05/21/24 23:27
Aroclor-1242	0.0743	U	0.0990	0.0307	0.0743	ug/L	1		05/21/24 23:27
Aroclor-1248	0.0743	U	0.0990	0.0307	0.0743	ug/L	1		05/21/24 23:27
Aroclor-1254	0.0743	U	0.0990	0.0307	0.0743	ug/L	1		05/21/24 23:27
Aroclor-1260	0.0743	U	0.0990	0.0307	0.0743	ug/L	1		05/21/24 23:27
Surrogates									
Decachlorobiphenyl (surr)	80		40-135			%	1		05/21/24 23:27

Batch Information

Analytical Batch: XGC11504
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 05/21/24 23:27
Container ID: 1242175002-A

Prep Batch: XXX49480
Prep Method: SW3520C
Prep Date/Time: 05/20/24 13:15
Prep Initial Wt./Vol.: 1010 mL
Prep Extract Vol: 1 mL

Results of **CP-BR**

Client Sample ID: **CP-BR**
Client Project ID: **203723261; SRU Plant 10**
Lab Sample ID: 1242175003
Lab Project ID: 1242175

Collection Date: 05/15/24 11:24
Received Date: 05/16/24 11:00
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0758	U	0.101	0.0313	0.0758	ug/L	1		05/21/24 23:38
Aroclor-1221	0.758	U	1.01	0.313	0.758	ug/L	1		05/21/24 23:38
Aroclor-1232	0.0758	U	0.101	0.0313	0.0758	ug/L	1		05/21/24 23:38
Aroclor-1242	0.0758	U	0.101	0.0313	0.0758	ug/L	1		05/21/24 23:38
Aroclor-1248	0.0758	U	0.101	0.0313	0.0758	ug/L	1		05/21/24 23:38
Aroclor-1254	0.0758	U	0.101	0.0313	0.0758	ug/L	1		05/21/24 23:38
Aroclor-1260	0.0758	U	0.101	0.0313	0.0758	ug/L	1		05/21/24 23:38
Surrogates									
Decachlorobiphenyl (surr)	80		40-135			%	1		05/21/24 23:38

Batch Information

Analytical Batch: XGC11504
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 05/21/24 23:38
Container ID: 1242175003-A

Prep Batch: XXX49480
Prep Method: SW3520C
Prep Date/Time: 05/20/24 13:15
Prep Initial Wt./Vol.: 990 mL
Prep Extract Vol: 1 mL

Print Date: 05/31/2024 10:05:03AM

J flagging is activated

Results of **CP-F**

Client Sample ID: **CP-F**
Client Project ID: **203723261; SRU Plant 10**
Lab Sample ID: 1242175004
Lab Project ID: 1242175

Collection Date: 05/15/24 10:25
Received Date: 05/16/24 11:00
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0733	U	0.0978	0.0303	0.0733	ug/L	1		05/21/24 23:48
Aroclor-1221	0.734	U	0.978	0.303	0.734	ug/L	1		05/21/24 23:48
Aroclor-1232	0.0733	U	0.0978	0.0303	0.0733	ug/L	1		05/21/24 23:48
Aroclor-1242	0.0733	U	0.0978	0.0303	0.0733	ug/L	1		05/21/24 23:48
Aroclor-1248	0.0733	U	0.0978	0.0303	0.0733	ug/L	1		05/21/24 23:48
Aroclor-1254	0.0733	U	0.0978	0.0303	0.0733	ug/L	1		05/21/24 23:48
Aroclor-1260	0.0733	U	0.0978	0.0303	0.0733	ug/L	1		05/21/24 23:48
Surrogates									
Decachlorobiphenyl (surr)	72.5		40-135			%	1		05/21/24 23:48

Batch Information

Analytical Batch: XGC11504
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 05/21/24 23:48
Container ID: 1242175004-A

Prep Batch: XXX49480
Prep Method: SW3520C
Prep Date/Time: 05/20/24 13:15
Prep Initial Wt./Vol.: 1022 mL
Prep Extract Vol: 1 mL

Results of **DUP**

Client Sample ID: **DUP**
Client Project ID: **203723261; SRU Plant 10**
Lab Sample ID: 1242175005
Lab Project ID: 1242175

Collection Date: 05/15/24 11:00
Received Date: 05/16/24 11:00
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0765	U	0.102	0.0316	0.0765	ug/L	1		05/21/24 23:58
Aroclor-1221	0.765	U	1.02	0.316	0.765	ug/L	1		05/21/24 23:58
Aroclor-1232	0.0765	U	0.102	0.0316	0.0765	ug/L	1		05/21/24 23:58
Aroclor-1242	0.0765	U	0.102	0.0316	0.0765	ug/L	1		05/21/24 23:58
Aroclor-1248	0.0765	U	0.102	0.0316	0.0765	ug/L	1		05/21/24 23:58
Aroclor-1254	0.0765	U	0.102	0.0316	0.0765	ug/L	1		05/21/24 23:58
Aroclor-1260	0.0765	U	0.102	0.0316	0.0765	ug/L	1		05/21/24 23:58
Surrogates									
Decachlorobiphenyl (surr)	82.5		40-135			%	1		05/21/24 23:58

Batch Information

Analytical Batch: XGC11504
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 05/21/24 23:58
Container ID: 1242175005-A

Prep Batch: XXX49480
Prep Method: SW3520C
Prep Date/Time: 05/20/24 13:15
Prep Initial Wt./Vol.: 980 mL
Prep Extract Vol: 1 mL

Method Blank

Blank ID: MB for HBN 1883854 [XXX/49480]
Blank Lab ID: 1764150

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1242175001, 1242175002, 1242175003, 1242175004, 1242175005

Results by **SW8082A**

Parameter	Results	LOQ/CL	DL	LOD	Units
Aroclor-1016	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1221	0.750U	1.00	0.310	0.750	ug/L
Aroclor-1232	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1242	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1248	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1254	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1260	0.0750U	0.100	0.0310	0.0750	ug/L
Surrogates					
Decachlorobiphenyl (surr)	77.5	40-135		0	%

Batch Information

Analytical Batch: XGC11504
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW R
Analyst: BRP
Analytical Date/Time: 5/21/2024 10:46:00PM

Prep Batch: XXX49480
Prep Method: SW3520C
Prep Date/Time: 5/20/2024 1:15:00PM
Prep Initial Wt./Vol.: 1000 mL
Prep Extract Vol: 1 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Blank Spike Summary

Blank Spike ID: LCS for HBN 1242175 [XXX49480]
Blank Spike Lab ID: 1764151
Date Analyzed: 05/21/2024 22:57

Spike Duplicate ID: LCSD for HBN 1242175 [XXX49480]
Spike Duplicate Lab ID: 1764152
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1242175001, 1242175002, 1242175003, 1242175004, 1242175005

Results by **SW8082A**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aroclor-1016	1	0.660	66	1	0.640	64	(46-129)	3.08	(< 30)
Aroclor-1260	1	0.690	69	1	0.680	68	(45-134)	1.46	(< 30)
Surrogates									
Decachlorobiphenyl (surr)	0.400		80	0.400		80	(40-135)	0.00	

Batch Information

Analytical Batch: **XGC11504**
Analytical Method: **SW8082A**
Instrument: **Agilent 7890B GC ECD SW R**
Analyst: **BRP**

Prep Batch: **XXX49480**
Prep Method: **SW3520C**
Prep Date/Time: **05/20/2024 13:15**
Spike Init Wt./Vol.: 1 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 1 ug/L Extract Vol: 1 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

1242175

Profile #: 362427 Int.: JG

Instructions: Sections 1 - 5 must be filled out.
Omissions may delay the onset of analysis.

Page 1 of 1

Section 1

CLIENT: Stantec

CONTACT: Craig Wilson
PHONE #: (907) 229-1514

PROJECT NAME: SRU Plant 10
Project/Permit Number: 203723261
NPDL Number(DOD):

REPORTS TO: Craig Wilson
E-MAIL: craig.wilson@stantec.com

INVOICE TO: Stantec
QUOTE #:
P.O. #: 203723261

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Sample Type: Comp	Sample Type: Grab	Sample Type: MI	Analysis*: 8082A PCBs	REMARKS/LOC ID
1AAB	CP-A	5/15/24	1054	GW	2		G		X	
2AAB	CP-C	"	1011	"	2		"		X	
3AAB	CP-BR	"	1124	"	2		"		X	
4AAB	CP-F	"	1025	"	2		"		X	
5AAB	DUP	"	1100	"	2		"		X	

NOTE:
*The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Comments:

Section 4

DOD Project? YES NO

Data Deliverables Requested
DataView Level 4 | SEDD | ERPIMS | EQUIS | Other:

Turnaround Time Requested
Standard
Rush
Requested Rush Report Date:

Section 5

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
	5/15	1500	
	5/16/24	1100	

Laboratory Use Only

SGS Sample Receipt (Lab Use Only)

Delivery Method: Client | Commercial

Did each cooler have a corresponding COC? Yes No

Chain of Custody Seal Condition: INTACT BROKEN ABSENT

COC Seal Location(s):

Cooler ID	Temperature (°C)	Therm. ID
1.	1.7	D53
2.		
3.		

If more than three coolers are received, or for documentation of non-compliant coolers, use form FS-0029.

Note: If temp. is outside 0-6° and samples were not taken <8 hours ago OR are waste samples, Client or PM should initial here or attach an email change order to proceed with analysis. If ice is present, note on form F102B.

Intials:

http://www.sgs.com/terms-and-conditions

SGS

1242175

SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	Yes	No	N/A	
Was temperature between 0-6° C?	Yes	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	Yes	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	Yes	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	N/A	
If rush was requested by the client, was the requested TAT approved?	Yes	No	N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	N/A	*If "NO", contact client for information.*
Sample Login Completion				
Do ID's on sample containers match COC?	Yes	No	N/A	
If provided on containers, do dates/times collected match COC?	Yes	No	N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	Yes	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? **See form F-083 "Sample Guide"*	Yes	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	Yes	No	N/A	
Were all VOA vials free of headspace >6mm?	Yes	No	N/A	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	Yes	No	N/A	
For Rush/Short Holding time, was the lab notified?	Yes	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	N/A	Reviewer Initials:
Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:				

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1242175001-A	No Preservative Required	OK			
1242175001-B	No Preservative Required	OK			
1242175002-A	No Preservative Required	OK			
1242175002-B	No Preservative Required	OK			
1242175003-A	No Preservative Required	OK			
1242175003-B	No Preservative Required	OK			
1242175004-A	No Preservative Required	OK			
1242175004-B	No Preservative Required	OK			
1242175005-A	No Preservative Required	OK			
1242175005-B	No Preservative Required	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Craig Wilson	**CS Site Name:**	SRU Plant 10	**Lab Name:**	SGS
Title:	Principal	**ADEC File No.:**	2334.38.016	**Lab Report No.:**	1242175
Consulting Firm:	Stantec	**Hazard ID No.:**	1303	**Lab Report Date:**	5/31/2024

Note: *Any N/A or No box checked must have an explanation in the comments box.*

1. **Laboratory**

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?
   Yes ☐ No ☐ N/A ☒
   Comments: Click or tap here to enter text.

2. **Chain of Custody (CoC)**

   a. Is the CoC information completed, signed, and dated (including released/received by)?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. Were the correct analyses requested?
   Yes ☒ No ☐ N/A ☐
   Analyses requested: Click or tap here to enter text.
   Comments: Click or tap here to enter text.

3. **Laboratory Sample Receipt Documentation**

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?
   Yes ☒ No ☐ N/A ☐
   Cooler temperature(s): Click or tap here to enter text.
   Sample temperature(s): Click or tap here to enter text.

Comments: Click or tap here to enter text.

b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

4. Case Narrative

a. Is the case narrative present and understandable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are there discrepancies, errors, or QC failures identified by the lab?
Yes ☐ No ☒ N/A ☐
Comments: Click or tap here to enter text.

c. Were all the corrective actions documented?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

d. What is the effect on data quality/usability according to the case narrative?
Comments: Click or tap here to enter text.

5. Sample Results

a. Are the correct analyses performed/reported as requested on CoC?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are all applicable holding times met?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Are all soils reported on a dry weight basis?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis, and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all method blank results less than LOQ (or RL)?
Yes ☒ No ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: Click or tap here to enter text.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

v. Data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: Click or tap here to enter text.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Click or tap here to enter text.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: Click or tap here to enter text.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

vii. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ☐ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all results less than LoQ or RL?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Was the duplicate submitted blind to lab?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD\ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X\ 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected? (Explain)
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☐ No ☒ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, specify what samples are affected.
Comments: Click or tap here to enter text.

iv. Are data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

Laboratory Report of Analysis

To: Stantec Consulting Services Inc.
725 East Fireweed Lane, #200
Anchorage, AK 99503
(907)248-8883

Report Number: **1245625**

Client Project: **SRU-Plant 10**

Dear Mike Zidek,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1245625**
Project Name/Site: **SRU-Plant 10**
Project Contact: **Mike Zidek**

Refer to sample receipt form for information on sample condition.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Report of Manual Integrations

Laboratory ID	Client Sample ID	Analytical Batch	Analyte	Reason
SW8082A				
1798767	LCS for HBN 1902797 [XXX/50732	XGC11581	Aroclor-1260	SP
1798768	LCSD for HBN 1902797 [XXX/5073	XGC11581	Aroclor-1260	SP
1799348	CCV for HBN 1903061 (XGC/11581	XGC11581	Aroclor-1016	BLC

Manual Integration Reason Code Descriptions

Code	Description
O	Original Chromatogram
M	Modified Chromatogram
SS	Skimmed surrogate
BLG	Closed baseline gap
RP	Reassign peak name
PIR	Pattern integration required
IT	Included tail
SP	Split peak
RSP	Removed split peak
FPS	Forced peak start/stop
BLC	Baseline correction
PNF	Peak not found by software

All DRO/RRO analysis are integrated per SOP.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
CP-A	1245625001	09/24/2024	09/26/2024	Water (Surface, Eff., Ground)
CP-BR	1245625002	09/24/2024	09/26/2024	Water (Surface, Eff., Ground)
CP-C	1245625003	09/24/2024	09/26/2024	Water (Surface, Eff., Ground)
CP-F	1245625004	09/24/2024	09/26/2024	Water (Surface, Eff., Ground)
DUP	1245625005	09/24/2024	09/26/2024	Water (Surface, Eff., Ground)

Method	Method Description
SW8082A	SW8082 PCB's

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Results of **CP-A**

Client Sample ID: **CP-A**
Client Project ID: **SRU-Plant 10**
Lab Sample ID: 1245625001
Lab Project ID: 1245625

Collection Date: 09/24/24 13:25
Received Date: 09/26/24 15:20
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:06
Aroclor-1221	0.772	U	1.03	0.320	0.772	ug/L	1		11/01/24 06:06
Aroclor-1232	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:06
Aroclor-1242	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:06
Aroclor-1248	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:06
Aroclor-1254	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:06
Aroclor-1260	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:06
Surrogates									
Decachlorobiphenyl (surr)	85		40-135			%	1		11/01/24 06:06

Batch Information

Analytical Batch: XGC11581
Analytical Method: SW8082A
Analyst: OZH
Analytical Date/Time: 11/01/24 06:06
Container ID: 1245625001-A

Prep Batch: XXX50732
Prep Method: SW3520C
Prep Date/Time: 10/31/24 14:40
Prep Initial Wt./Vol.: 970 mL
Prep Extract Vol: 1 mL

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Results of **CP-BR**

Client Sample ID: **CP-BR**
Client Project ID: **SRU-Plant 10**
Lab Sample ID: 1245625002
Lab Project ID: 1245625

Collection Date: 09/24/24 14:20
Received Date: 09/26/24 15:20
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:16
Aroclor-1221	0.772	U	1.03	0.320	0.772	ug/L	1		11/01/24 06:16
Aroclor-1232	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:16
Aroclor-1242	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:16
Aroclor-1248	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:16
Aroclor-1254	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:16
Aroclor-1260	0.0772	U	0.103	0.0320	0.0772	ug/L	1		11/01/24 06:16
Surrogates									
Decachlorobiphenyl (surr)	85		40-135			%	1		11/01/24 06:16

Batch Information

Analytical Batch: XGC11581
Analytical Method: SW8082A
Analyst: OZH
Analytical Date/Time: 11/01/24 06:16
Container ID: 1245625002-A

Prep Batch: XXX50732
Prep Method: SW3520C
Prep Date/Time: 10/31/24 14:40
Prep Initial Wt./Vol.: 970 mL
Prep Extract Vol: 1 mL

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Results of **CP-C**

Client Sample ID: **CP-C**
Client Project ID: **SRU-Plant 10**
Lab Sample ID: 1245625003
Lab Project ID: 1245625

Collection Date: 09/24/24 13:34
Received Date: 09/26/24 15:20
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0758	U	0.101	0.0312	0.0758	ug/L	1		11/01/24 06:26
Aroclor-1221	0.758	U	1.01	0.312	0.758	ug/L	1		11/01/24 06:26
Aroclor-1232	0.0758	U	0.101	0.0312	0.0758	ug/L	1		11/01/24 06:26
Aroclor-1242	0.0758	U	0.101	0.0312	0.0758	ug/L	1		11/01/24 06:26
Aroclor-1248	0.0758	U	0.101	0.0312	0.0758	ug/L	1		11/01/24 06:26
Aroclor-1254	0.0758	U	0.101	0.0312	0.0758	ug/L	1		11/01/24 06:26
Aroclor-1260	0.0758	U	0.101	0.0312	0.0758	ug/L	1		11/01/24 06:26
Surrogates									
Decachlorobiphenyl (surr)	82.5		40-135			%	1		11/01/24 06:26

Batch Information

Analytical Batch: XGC11581
Analytical Method: SW8082A
Analyst: OZH
Analytical Date/Time: 11/01/24 06:26
Container ID: 1245625003-A

Prep Batch: XXX50732
Prep Method: SW3520C
Prep Date/Time: 10/31/24 14:40
Prep Initial Wt./Vol.: 995 mL
Prep Extract Vol: 1 mL

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Results of **CP-F**

Client Sample ID: **CP-F**
Client Project ID: **SRU-Plant 10**
Lab Sample ID: 1245625004
Lab Project ID: 1245625

Collection Date: 09/24/24 14:07
Received Date: 09/26/24 15:20
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0795	U	0.106	0.0330	0.0795	ug/L	1		11/06/24 23:07
Aroclor-1221	0.795	U	1.06	0.330	0.795	ug/L	1		11/06/24 23:07
Aroclor-1232	0.0795	U	0.106	0.0330	0.0795	ug/L	1		11/06/24 23:07
Aroclor-1242	0.0795	U	0.106	0.0330	0.0795	ug/L	1		11/06/24 23:07
Aroclor-1248	0.0795	U	0.106	0.0330	0.0795	ug/L	1		11/06/24 23:07
Aroclor-1254	0.0795	U	0.106	0.0330	0.0795	ug/L	1		11/06/24 23:07
Aroclor-1260	0.0795	U	0.106	0.0330	0.0795	ug/L	1		11/06/24 23:07
Surrogates									
Decachlorobiphenyl (surr)	85		40-135			%	1		11/06/24 23:07

Batch Information

Analytical Batch: XGC11585
Analytical Method: SW8082A
Analyst: OZH
Analytical Date/Time: 11/06/24 23:07
Container ID: 1245625004-A

Prep Batch: XXX50753
Prep Method: SW3520C
Prep Date/Time: 11/06/24 13:05
Prep Initial Wt./Vol.: 940 mL
Prep Extract Vol: 1 mL

Results of **DUP**

Client Sample ID: **DUP**
Client Project ID: **SRU-Plant 10**
Lab Sample ID: 1245625005
Lab Project ID: 1245625

Collection Date: 09/24/24 00:00
Received Date: 09/26/24 15:20
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	LOD	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.0728	U	0.0971	0.0301	0.0728	ug/L	1		11/06/24 23:18
Aroclor-1221	0.728	U	0.971	0.301	0.728	ug/L	1		11/06/24 23:18
Aroclor-1232	0.0728	U	0.0971	0.0301	0.0728	ug/L	1		11/06/24 23:18
Aroclor-1242	0.0728	U	0.0971	0.0301	0.0728	ug/L	1		11/06/24 23:18
Aroclor-1248	0.0728	U	0.0971	0.0301	0.0728	ug/L	1		11/06/24 23:18
Aroclor-1254	0.0728	U	0.0971	0.0301	0.0728	ug/L	1		11/06/24 23:18
Aroclor-1260	0.0728	U	0.0971	0.0301	0.0728	ug/L	1		11/06/24 23:18
Surrogates									
Decachlorobiphenyl (surr)	85		40-135			%	1		11/06/24 23:18

Batch Information

Analytical Batch: XGC11585
Analytical Method: SW8082A
Analyst: OZH
Analytical Date/Time: 11/06/24 23:18
Container ID: 1245625005-A

Prep Batch: XXX50753
Prep Method: SW3520C
Prep Date/Time: 11/06/24 13:05
Prep Initial Wt./Vol.: 1030 mL
Prep Extract Vol: 1 mL

Method Blank

Blank ID: MB for HBN 1902797 [XXX/50732]
Blank Lab ID: 1798766

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1245625001, 1245625002, 1245625003

Results by **SW8082A**

Parameter	Results	LOQ/CL	DL	LOD	Units
Aroclor-1016	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1221	0.750U	1.00	0.310	0.750	ug/L
Aroclor-1232	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1242	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1248	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1254	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1260	0.0750U	0.100	0.0310	0.0750	ug/L
Surrogates					
Decachlorobiphenyl (surr)	85	40-135		0	%

Batch Information

Analytical Batch: XGC11581
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW R
Analyst: OZH
Analytical Date/Time: 11/1/2024 3:11:00AM

Prep Batch: XXX50732
Prep Method: SW3520C
Prep Date/Time: 10/31/2024 2:40:00PM
Prep Initial Wt./Vol.: 1000 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1245625 [XXX50732]
Blank Spike Lab ID: 1798767
Date Analyzed: 11/01/2024 03:21

Spike Duplicate ID: LCSD for HBN 1245625 [XXX50732]
Spike Duplicate Lab ID: 1798768
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1245625001, 1245625002, 1245625003

Results by **SW8082A**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aroclor-1016	1	0.650	65	1	0.630	63	(46-129)	3.13	(< 30)
Aroclor-1260	1	0.770	77	1	0.730	73	(45-134)	5.33	(< 30)
Surrogates									
Decachlorobiphenyl (surr)	0.400		83	0.400		80	(40-135)	3.08	

Batch Information

Analytical Batch: **XGC11581**
Analytical Method: **SW8082A**
Instrument: **Agilent 7890B GC ECD SW R**
Analyst: **OZH**

Prep Batch: **XXX50732**
Prep Method: **SW3520C**
Prep Date/Time: **10/31/2024 14:40**
Spike Init Wt./Vol.: 1 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 1 ug/L Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1903278 [XXX/50753]
Blank Lab ID: 1799889

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1245625004, 1245625005

Results by **SW8082A**

Parameter	Results	LOQ/CL	DL	LOD	Units
Aroclor-1016	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1221	0.750U	1.00	0.310	0.750	ug/L
Aroclor-1232	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1242	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1248	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1254	0.0750U	0.100	0.0310	0.0750	ug/L
Aroclor-1260	0.0750U	0.100	0.0310	0.0750	ug/L
Surrogates					
Decachlorobiphenyl (surr)	85	40-135		0	%

Batch Information

Analytical Batch: XGC11585
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW R
Analyst: OZH
Analytical Date/Time: 11/6/2024 9:14:00PM

Prep Batch: XXX50753
Prep Method: SW3520C
Prep Date/Time: 11/6/2024 1:05:00PM
Prep Initial Wt./Vol.: 1000 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1245625 [XXX50753]
Blank Spike Lab ID: 1799890
Date Analyzed: 11/06/2024 21:24

Spike Duplicate ID: LCSD for HBN 1245625 [XXX50753]
Spike Duplicate Lab ID: 1799891
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1245625004, 1245625005

Results by **SW8082A**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aroclor-1016	1	0.760	76	1	0.590	59	(46-129)	25.20	(< 30)
Aroclor-1260	1	0.870	87	1	0.710	71	(45-134)	20.30	(< 30)
Surrogates									
Decachlorobiphenyl (surr)	0.400		90	0.400		83	(40-135)	8.70	

Batch Information

Analytical Batch: **XGC11585**
Analytical Method: **SW8082A**
Instrument: **Agilent 7890B GC ECD SW R**
Analyst: **OZH**

Prep Batch: **XXX50753**
Prep Method: **SW3520C**
Prep Date/Time: **11/06/2024 13:05**
Spike Init Wt./Vol.: 1 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 1 ug/L Extract Vol: 1 mL

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1245625

Profile #: 362427 Int.: GW

Page 1 of 1

Section 1

CLIENT: Stantec

CONTACT: Sydney Souza | PHONE #: 907-229-1514

PROJECT NAME: SRU-Plant 10 | Project/Permit Number: 203723261 | ~~NPDL Number(DOD):~~

REPORTS TO: Mike Zidek | E-MAIL: Sydney.Souza@Stantec.com

INVOICE TO: Stantec | ~~QUOTE #:~~ | P.O. #: 203723261

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 3

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Sample Type: Comp / Grab / MI	Preservative	Analysis*										REMARKS/LOC ID
								PCB										
1AB	CP-A	09/24/24	13:25	GW	2	G		X										
2AB	CP-BR		14:20		2			X										
3AB	CP-C		13:34		2			X										
4AB	CP-F		14:07		2			X										
5AB	DUP		—		2			X										

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Comments:

Section 4

DOD Project? YES (NO)

Data Deliverables Requested: DataView, Level 4, SEDD, ERPIMS, EQUIS, Other:

Turnaround Time Requested: (Standard), Rush, Requested Rush Report Date:

SGS Sample Receipt (Lab Use Only)

Delivery Method: (Client), Commercial

Did each cooler have a corresponding COC? (Yes) No

Chain of Custody Seal Condition: INTACT, BROKEN, (ABSENT)

COC Seal Location(s):

Section 5

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	Cooler ID	Temperature (°C)	Therm. ID
	9/25/24	1600		1.	2.0	D57
				2.		
				3.		
	9/26/24	1525				

If more than three coolers are received, or for documentation of non-compliant coolers, use form FS-0029.

Note: If temp. is outside 0-6 °C and samples were not taken <8 hours ago OR are waste samples, Client or PM should initial here or attach an email change order to proceed with analysis. If ice is present, note on form F102B.

Intials:

Laboratory Use Only

http://www.sgs.com/terms-and-conditions

F083-Blank_COC_20181228

SGS

1245625

SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (Temperature, COC seals, etc.?)	Yes	No	N/A	
Was temperature between 0-6° C?	Yes	No	N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	Yes	No	N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	Yes	No	N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	Yes	No	N/A	
If rush was requested by the client, was the requested TAT approved?	Yes	No	N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	Yes	No	N/A	*If "NO", contact client for information.*
Sample Login Completion				
Do ID's on sample containers match COC?	Yes	No	N/A	
If provided on containers, do dates/times collected match COC?	Yes	No	N/A	Note: If times differ <1 hr., record details below and login per COC. no time for DW5
Were all sample containers received in good condition?	Yes	No	N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? **See form F-083 "Sample Guide"*	Yes	No	N/A	*Note: If 200.8/6020 Total Metals are received unpreserved, preserve, and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.*
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	Yes	No	N/A	
Were all VOA vials free of headspace >6mm?	Yes	No	N/A	
Were all soil VOA samples received field extracted with Methanol?	Yes	No	N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	Yes	No	N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	Yes	No	N/A	
For Rush/Short Holding time, was the lab notified?	Yes	No	N/A	
For any question answered "NO", was the Project Manager notified?	Yes	No	N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	Yes	No	N/A	Reviewer Initials: AJP

Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:

0000 for dup tare ✓ OR 9/27/24

ADEC Contaminated Sites Program Laboratory Data Review Checklist

Completed By:	Craig Wilson	**CS Site Name:**	SRU Plant 10	**Lab Name:**	SGS
Title:	Principal	**ADEC File No.:**	2334.38.016	**Lab Report No.:**	1245625
Consulting Firm:	Stantec	**Hazard ID No.:**	1303	**Lab Report Date:**	9/24/2024

Note: *Any N/A or No box checked must have an explanation in the comments box.*

1. **Laboratory**

   a. Did an ADEC Contaminated Sites Laboratory Approval Program (CS-LAP) approved laboratory receive and perform all of the submitted sample analyses?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. If the samples were transferred to another "network" laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses CS-LAP approved?
   Yes ☐ No ☐ N/A ☒
   Comments: Click or tap here to enter text.

2. **Chain of Custody (CoC)**

   a. Is the CoC information completed, signed, and dated (including released/received by)?
   Yes ☒ No ☐ N/A ☐
   Comments: Click or tap here to enter text.

   b. Were the correct analyses requested?
   Yes ☒ No ☐ N/A ☐
   Analyses requested: Click or tap here to enter text.
   Comments: Click or tap here to enter text.

3. **Laboratory Sample Receipt Documentation**

   a. Is the sample/cooler temperature documented and within range at receipt (0° to 6° C)?
   Yes ☒ No ☐ N/A ☐
   Cooler temperature(s): Click or tap here to enter text.
   Sample temperature(s): Click or tap here to enter text.

Comments: Click or tap here to enter text.

b. Is the sample preservation acceptable – acidified waters, methanol preserved soil (GRO, BTEX, VOCs, etc.)?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Is the sample condition documented – broken, leaking, zero headspace (VOA vials); canister vacuum/pressure checked and no open valves, etc.?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, canister not holding a vacuum, etc.?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

4. Case Narrative

a. Is the case narrative present and understandable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are there discrepancies, errors, or QC failures identified by the lab?
Yes ☐ No ☒ N/A ☐
Comments: Click or tap here to enter text.

c. Were all the corrective actions documented?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

d. What is the effect on data quality/usability according to the case narrative?
Comments: Click or tap here to enter text.

5. Sample Results

a. Are the correct analyses performed/reported as requested on CoC?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

b. Are all applicable holding times met?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

c. Are all soils reported on a dry weight basis?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

d. Are the reported limits of quantitation (LoQ) or limits of detections (LOD), or reporting limits (RL) less than the Cleanup Level or the action level for the project?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

e. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

6. QC Samples

a. Method Blank

i. Was one method blank reported per matrix, analysis, and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all method blank results less than LOQ (or RL)?
Yes ☒ No ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: Click or tap here to enter text.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

v. Data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – Are one LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one LCS and one sample duplicate reported per matrix, analysis and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? Was the RPD reported from LCS/LCSD, and or sample/sample duplicate? (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: Click or tap here to enter text.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

vii. Is the data quality or usability affected?
Yes ☐ No ☒ N/A ☐
Comments: Click or tap here to enter text.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

i. Organics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

ii. Metals/Inorganics – Are one MS/MSD reported per matrix, analysis and 20 samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Precision – Are all relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

v. If %R or RPD is outside of acceptable limits, what samples are affected?
Comments: Click or tap here to enter text.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

vii. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC, and laboratory samples?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

ii. Accuracy – Are all percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

e. Trip Blanks

i. Is one trip blank reported per matrix, analysis, and for each cooler containing volatile samples? Yes ☐ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Are all results less than LoQ or RL?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, what samples are affected?
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

f. Field Duplicate

i. Are one field duplicate submitted per matrix, analysis, and 10 project samples?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

ii. Was the duplicate submitted blind to lab?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water or air, 50% soil)

$$RPD\ (\%) = \left| \frac{R_1 - R_2}{\left(\frac{R_1 + R_2}{2}\right)} \right| X\ 100$$

Where R_1 = Sample Concentration

R_2 = Field Duplicate Concentration

Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.

iv. Is the data quality or usability affected? (Explain)
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

g. Decontamination or Equipment Blanks

i. Were decontamination or equipment blanks collected?
Yes ☐ No ☒ N/A ☐
Comments: Click or tap here to enter text.

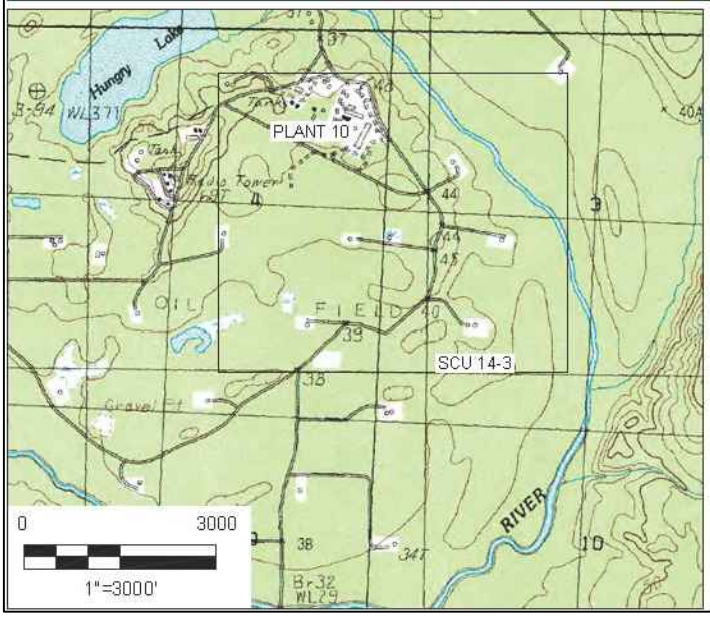
ii. Are all results less than LoQ or RL?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

iii. If above LoQ or RL, specify what samples are affected.
Comments: Click or tap here to enter text.

iv. Are data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Are they defined and appropriate?
Yes ☒ No ☐ N/A ☐
Comments: Click or tap here to enter text.



Stantec

FOR:
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COMPRESSOR PLANT 10
SWANSON RIVER FIELD
STERLING, ALASKA

SITE LOCATION MAP

FIGURE: 1

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
203721237	JRO	AS	TM	07/23/19

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Stantec

FOR:
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
COMPRESSOR PLANT 10
SWANSON RIVER FIELD
STERLING, ALASKA

PLANT 10 SITE AND WELL LOCATION MAP

FIGURE: 2

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
203721237	JRO	AS	TM	07/23/19

FILEPATH:V:\1826\resource\AutoCAD\other_offices\salt_lake_ut\203721237_swanson\figures\dwg_203721237_swanson_2019.dwg | JOpalekOpsahl | Jul 23, 2019 at 11:02 | Layout: fig2_sp_10