Stantec Consulting Services Inc.
725 East Fireweed Lane Suite 200, Anchorage AK 99503-2245

December 22, 2023
File: 203721236

Attention: Jason Michelson
Chevron Environmental Management Company
1500 Louisiana Street, Floor 38
Houston, TX 77002

Dear Mr. Michelson,

Reference: Chevron Swanson River Plant 10 and SCU 14-3 PCB Monitoring Report for 2023
ADEC 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 associated site SCU14-3 was also sampled in 2023 as part of a five-year sampling plan required by ADEC letters of January 31, 2017, and August 23, 2018.

BACKGROUND

The Swanson River facilities used polychlorinated biphenyls (PCBs) as a component of electrical transformers and as a heat transfer fluid from the early 1960s until the late 1970s. Between 1962 and 1976-77, Aroclor 1248 and Aroclor 1242 (Therminol FR-1) were used as a heat transfer oil in the process heat system of the propane recovery unit until replaced with a non-PCB heat transfer oil in 1976 or 1977.

In January 1972 an explosion occurred at the SRF Plant 10 which resulted in the release of an unknown quantity of PCBs to the surrounding area. It is believed that the final disposal site for the impacted snow and soil from this explosion was at SCU 14-3, located approximately 1 mile from the plant. SCU 14-3 had been established in 1971 to serve as a central receiving site and stockpile for oil-contaminated soils from production activities at Swanson River.

Oily sand and gravel, and presumably PCB-contaminated soils, from SCU 14-3 were used for dust suppression and road maintenance on approximately two miles of roads within the Swanson River Field in 1983 and 1984 under a permit issued by the Alaska Department of Environmental Conservation. Testing of the stockpiled soil at SCU 14-3 revealed the presence of PCB contamination in the soils and their use for road maintenance was terminated.

PLANT 10

The polychlorinated biphenyl (PCB) contamination at Plant 10 is believed to originate from a January 1972 explosion 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 were listed as the primary contaminants of concern in the OBC. A remediation effort occurred 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 2023, on May 15th and October 16th. 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.

SCU 14-3

As noted earlier, an explosion occurred at the Plant 10 in January 1972 that resulted in the release of an unknown quantity of this PCB containing oil. It is believed that the final disposal site for this impacted snow and soil was in the SCU 14-3 sump. Four monitoring wells were proposed to monitor for potential PCB contamination in the 1985, but apparently only three wells were actually established. Actual installation date of the monitoring wells is unknown.

Sampling of the three known wells was last done in 2018. The analytical results from that sampling indicated no PCBs above detection limits of the test method. Samples were collected from wells MW-1, MW-2, and MW-3 on May 15-16, 2023. Analysis revealed no PCBs above the detection limits of the test method.

FINDINGS

This letter report includes three attachments:

- **Attachment A** includes the current and historical analytical results for Plant 10 and SCU 14-3,
- **Attachment B** includes the laboratory reports and laboratory data review checklists for Plant 10 and SCU 14-3, and
- **Attachment C** includes a site location map and Plant 10 and SCU 14-3 well locations.

Table 1 (**Attachment A**) shows that all 2023 sample results for Plant 10 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.

Reference: Chevron Swanson River Plant 10 and SCU 14-3 PCB Monitoring Report for 2023ADEC File Number 2334.38.016, Hazard ID 1303

Table 1 continues to show that only one sampling event (October 2006 at one location, CP-A) had detectable total PCBs over the entire 23-year sampling and analysis record at Plant 10. Since that 2006 event, sampling has continued with no detectable PCB Aroclors.

Table 2 (**Attachment A**) shows that all 2023 sample results are non-detectable (ND) at concentrations above DL at SCU 14-3. 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.

In accordance with the OBC, Amendment #4, and ADEC's letter of January 31, 2017, semi-annual groundwater sampling is currently planned for 2024 at Plant 10. The next scheduled round of sampling at SCU 14-3 is in 5 years, in 2028.

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

Best regards,

Stantec Consulting Services Inc.

Craig Wilson
Principal
Phone: 907 266 1128
Cell: 907 240 3752
craig.wilson@stantec.com

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

cc. Peter Campbell, ADEC (via email)
Lynnda Kahn, USFWS (via email)
Sharon L. Yarawsky, BLM (via email)
Michelle Mullin, EPA Region 10 (via email)

chw https://stantec.sharepoint.com/teams/swansonriverunit/shared documents/plant_10/2022 plant 10 report/plant 10 2022 annual report 24oct2022.docx

Reference: Chevron Swanson River Plant 10 and SCU 14-3 PCB Monitoring Report for 2023ADEC File Number 2334.38.016, Hazard ID 1303

Attachment A
Summary of Current and Historical Analytical Results

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)

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**
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)
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	163.84	ND[0.0515]	9.17	159.69	ND[0.0580]	6.61	163.34	ND[0.0580]	8.02	162.52	ND[0.0570]
10/16/2023	6.85	162.03	ND[0.0520]	9.28	159.58	ND[0.0530]	7.00	162.95	ND[0.0530]	8.55	161.99	ND[0.0515]

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.

Reference: Chevron Swanson River Plant 10 and SCU 14-3 PCB Monitoring Report for 2023ADEC File Number 2334.38.016, Hazard ID 1303

Attachment B
Laboratory Reports and ADEC Laboratory Data Review Checklists

Laboratory Report of Analysis

To: Stantec Consulting Services Inc.
725 East Fireweed Lane, #200
Anchorage, AK 99503
(907)266-1148

Report Number: **1232117**

Client Project: **SRU-Plant10-SCU14-3**

Dear Douglas Quist,

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.

Stephen C. Ede
2023.06.07
15:21:42 -08'00'

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

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1232117**
Project Name/Site: **SRU-Plant10-SCU14-3**
Project Contact: **Douglas Quist**

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 (Provisionally Certified as of 6/05/2023 for Fluoride EPA300.0, Alkalinity SM2320B, Orthophosphate SM4500P-E and Beryllium, Copper and Mercury 200.8) & 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, 8270D, 8270D-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., 1/2 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.

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

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
CP-A	1232117001	05/15/2023	05/18/2023	Water (Surface, Eff., Ground)
CP-F	1232117002	05/15/2023	05/18/2023	Water (Surface, Eff., Ground)
CP-C	1232117003	05/15/2023	05/18/2023	Water (Surface, Eff., Ground)
Duplicate 1	1232117004	05/15/2023	05/18/2023	Water (Surface, Eff., Ground)
CP-BR	1232117005	05/15/2023	05/18/2023	Water (Surface, Eff., Ground)
MW-3	1232117006	05/15/2023	05/18/2023	Water (Surface, Eff., Ground)
MW-2	1232117007	05/15/2023	05/18/2023	Water (Surface, Eff., Ground)
Dupicate 2	1232117008	05/15/2023	05/18/2023	Water (Surface, Eff., Ground)
MW-1	1232117009	05/16/2023	05/18/2023	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: **SRU-Plant10-SCU14-3**
Lab Sample ID: 1232117001
Lab Project ID: 1232117

Collection Date: 05/15/23 13:40
Received Date: 05/18/23 11:44
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	0.0515	U	0.103	0.0320	0.0515	ug/L	1		06/01/23 00:31
Aroclor-1221	0.515	U	1.03	0.320	0.515	ug/L	1		06/01/23 00:31
Aroclor-1232	0.0515	U	0.103	0.0320	0.0515	ug/L	1		06/01/23 00:31
Aroclor-1242	0.0515	U	0.103	0.0320	0.0515	ug/L	1		06/01/23 00:31
Aroclor-1248	0.0515	U	0.103	0.0320	0.0515	ug/L	1		06/01/23 00:31
Aroclor-1254	0.0515	U	0.103	0.0320	0.0515	ug/L	1		06/01/23 00:31
Aroclor-1260	0.0515	U	0.103	0.0320	0.0515	ug/L	1		06/01/23 00:31
Surrogates									
Decachlorobiphenyl (surr)	108		40-135			%	1		06/01/23 00:31

Batch Information

Analytical Batch: XGC11336
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 06/01/23 00:31
Container ID: 1232117001-A

Prep Batch: XXX47909
Prep Method: SW3520C
Prep Date/Time: 05/26/23 13:10
Prep Initial Wt./Vol.: 970 mL
Prep Extract Vol: 1 mL

Print Date: 06/06/2023 3:15:23PM

J flagging is activated

Results of **CP-F**

Client Sample ID: **CP-F**
Client Project ID: **SRU-Plant10-SCU14-3**
Lab Sample ID: 1232117002
Lab Project ID: 1232117

Collection Date: 05/15/23 13:50
Received Date: 05/18/23 11:44
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	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:42
Aroclor-1221	0.570	U	1.14	0.352	0.570	ug/L	1		06/01/23 00:42
Aroclor-1232	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:42
Aroclor-1242	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:42
Aroclor-1248	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:42
Aroclor-1254	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:42
Aroclor-1260	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:42
Surrogates									
Decachlorobiphenyl (surr)	105		40-135			%	1		06/01/23 00:42

Batch Information

Analytical Batch: XGC11336
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 06/01/23 00:42
Container ID: 1232117002-A

Prep Batch: XXX47909
Prep Method: SW3520C
Prep Date/Time: 05/26/23 13:10
Prep Initial Wt./Vol.: 880 mL
Prep Extract Vol: 1 mL

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Results of **CP-C**

Client Sample ID: **CP-C**
Client Project ID: **SRU-Plant10-SCU14-3**
Lab Sample ID: 1232117003
Lab Project ID: 1232117

Collection Date: 05/15/23 15:04
Received Date: 05/18/23 11:44
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	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:52
Aroclor-1221	0.570	U	1.14	0.352	0.570	ug/L	1		06/01/23 00:52
Aroclor-1232	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:52
Aroclor-1242	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:52
Aroclor-1248	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:52
Aroclor-1254	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:52
Aroclor-1260	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 00:52
Surrogates									
Decachlorobiphenyl (surr)	108		40-135			%	1		06/01/23 00:52

Batch Information

Analytical Batch: XGC11336
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 06/01/23 00:52
Container ID: 1232117003-A

Prep Batch: XXX47909
Prep Method: SW3520C
Prep Date/Time: 05/26/23 13:10
Prep Initial Wt./Vol.: 880 mL
Prep Extract Vol: 1 mL

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Results of **Duplicate 1**

Client Sample ID: **Duplicate 1**
Client Project ID: **SRU-Plant10-SCU14-3**
Lab Sample ID: 1232117004
Lab Project ID: 1232117

Collection Date: 05/15/23 15:07
Received Date: 05/18/23 11:44
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	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:02
Aroclor-1221	0.580	U	1.16	0.360	0.580	ug/L	1		06/01/23 01:02
Aroclor-1232	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:02
Aroclor-1242	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:02
Aroclor-1248	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:02
Aroclor-1254	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:02
Aroclor-1260	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:02
Surrogates									
Decachlorobiphenyl (surr)	115		40-135			%	1		06/01/23 01:02

Batch Information

Analytical Batch: XGC11336
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 06/01/23 01:02
Container ID: 1232117004-A

Prep Batch: XXX47909
Prep Method: SW3520C
Prep Date/Time: 05/26/23 13:10
Prep Initial Wt./Vol.: 860 mL
Prep Extract Vol: 1 mL

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Results of **CP-BR**

Client Sample ID: **CP-BR**
Client Project ID: **SRU-Plant10-SCU14-3**
Lab Sample ID: 1232117005
Lab Project ID: 1232117

Collection Date: 05/15/23 15:15
Received Date: 05/18/23 11:44
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	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 01:12
Aroclor-1221	0.570	U	1.14	0.352	0.570	ug/L	1		06/01/23 01:12
Aroclor-1232	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 01:12
Aroclor-1242	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 01:12
Aroclor-1248	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 01:12
Aroclor-1254	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 01:12
Aroclor-1260	0.0570	U	0.114	0.0352	0.0570	ug/L	1		06/01/23 01:12
Surrogates									
Decachlorobiphenyl (surr)	110		40-135			%	1		06/01/23 01:12

Batch Information

Analytical Batch: XGC11336
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 06/01/23 01:12
Container ID: 1232117005-A

Prep Batch: XXX47909
Prep Method: SW3520C
Prep Date/Time: 05/26/23 13:10
Prep Initial Wt./Vol.: 880 mL
Prep Extract Vol: 1 mL

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Results of **MW-3**

Client Sample ID: **MW-3**
Client Project ID: **SRU-Plant10-SCU14-3**
Lab Sample ID: 1232117006
Lab Project ID: 1232117

Collection Date: 05/15/23 16:35
Received Date: 05/18/23 11:44
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	0.0575	U	0.115	0.0356	0.0575	ug/L	1		06/01/23 01:23
Aroclor-1221	0.575	U	1.15	0.356	0.575	ug/L	1		06/01/23 01:23
Aroclor-1232	0.0575	U	0.115	0.0356	0.0575	ug/L	1		06/01/23 01:23
Aroclor-1242	0.0575	U	0.115	0.0356	0.0575	ug/L	1		06/01/23 01:23
Aroclor-1248	0.0575	U	0.115	0.0356	0.0575	ug/L	1		06/01/23 01:23
Aroclor-1254	0.0575	U	0.115	0.0356	0.0575	ug/L	1		06/01/23 01:23
Aroclor-1260	0.0575	U	0.115	0.0356	0.0575	ug/L	1		06/01/23 01:23
Surrogates									
Decachlorobiphenyl (surr)	115		40-135			%	1		06/01/23 01:23

Batch Information

Analytical Batch: XGC11336
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 06/01/23 01:23
Container ID: 1232117006-A

Prep Batch: XXX47909
Prep Method: SW3520C
Prep Date/Time: 05/26/23 13:10
Prep Initial Wt./Vol.: 870 mL
Prep Extract Vol: 1 mL

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Results of **MW-2**

Client Sample ID: **MW-2**
Client Project ID: **SRU-Plant10-SCU14-3**
Lab Sample ID: 1232117007
Lab Project ID: 1232117

Collection Date: 05/15/23 16:49
Received Date: 05/18/23 11:44
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	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:33
Aroclor-1221	0.580	U	1.16	0.360	0.580	ug/L	1		06/01/23 01:33
Aroclor-1232	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:33
Aroclor-1242	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:33
Aroclor-1248	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:33
Aroclor-1254	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:33
Aroclor-1260	0.0580	U	0.116	0.0360	0.0580	ug/L	1		06/01/23 01:33
Surrogates									
Decachlorobiphenyl (surr)	108		40-135			%	1		06/01/23 01:33

Batch Information

Analytical Batch: XGC11336
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 06/01/23 01:33
Container ID: 1232117007-A

Prep Batch: XXX47909
Prep Method: SW3520C
Prep Date/Time: 05/26/23 13:10
Prep Initial Wt./Vol.: 860 mL
Prep Extract Vol: 1 mL

Print Date: 06/06/2023 3:15:23PM

J flagging is activated

Results of **Dupicate 2**

Client Sample ID: **Dupicate 2**
Client Project ID: **SRU-Plant10-SCU14-3**
Lab Sample ID: 1232117008
Lab Project ID: 1232117

Collection Date: 05/15/23 16:52
Received Date: 05/18/23 11:44
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	0.0555	U	0.111	0.0344	0.0555	ug/L	1		06/01/23 01:43
Aroclor-1221	0.555	U	1.11	0.344	0.555	ug/L	1		06/01/23 01:43
Aroclor-1232	0.0555	U	0.111	0.0344	0.0555	ug/L	1		06/01/23 01:43
Aroclor-1242	0.0555	U	0.111	0.0344	0.0555	ug/L	1		06/01/23 01:43
Aroclor-1248	0.0555	U	0.111	0.0344	0.0555	ug/L	1		06/01/23 01:43
Aroclor-1254	0.0555	U	0.111	0.0344	0.0555	ug/L	1		06/01/23 01:43
Aroclor-1260	0.0555	U	0.111	0.0344	0.0555	ug/L	1		06/01/23 01:43
Surrogates									
Decachlorobiphenyl (surr)	105		40-135			%	1		06/01/23 01:43

Batch Information

Analytical Batch: XGC11336
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 06/01/23 01:43
Container ID: 1232117008-A

Prep Batch: XXX47909
Prep Method: SW3520C
Prep Date/Time: 05/26/23 13:10
Prep Initial Wt./Vol.: 900 mL
Prep Extract Vol: 1 mL

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Results of **MW-1**

Client Sample ID: **MW-1**
Client Project ID: **SRU-Plant10-SCU14-3**
Lab Sample ID: 1232117009
Lab Project ID: 1232117

Collection Date: 05/16/23 10:03
Received Date: 05/18/23 11:44
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	0.0530	U	0.106	0.0330	0.0530	ug/L	1		06/01/23 01:53
Aroclor-1221	0.530	U	1.06	0.330	0.530	ug/L	1		06/01/23 01:53
Aroclor-1232	0.0530	U	0.106	0.0330	0.0530	ug/L	1		06/01/23 01:53
Aroclor-1242	0.0530	U	0.106	0.0330	0.0530	ug/L	1		06/01/23 01:53
Aroclor-1248	0.0530	U	0.106	0.0330	0.0530	ug/L	1		06/01/23 01:53
Aroclor-1254	0.0530	U	0.106	0.0330	0.0530	ug/L	1		06/01/23 01:53
Aroclor-1260	0.0530	U	0.106	0.0330	0.0530	ug/L	1		06/01/23 01:53
Surrogates									
Decachlorobiphenyl (surr)	110		40-135			%	1		06/01/23 01:53

Batch Information

Analytical Batch: XGC11336
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 06/01/23 01:53
Container ID: 1232117009-A

Prep Batch: XXX47909
Prep Method: SW3520C
Prep Date/Time: 05/26/23 13:10
Prep Initial Wt./Vol.: 940 mL
Prep Extract Vol: 1 mL

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Method Blank

Blank ID: MB for HBN 1856387 [XXX/47909]
Blank Lab ID: 1714579

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1232117001, 1232117002, 1232117003, 1232117004, 1232117005, 1232117006, 1232117007, 1232117008, 1232117009

Results by **SW8082A**

Parameter	Results	LOQ/CL	DL	LOD	Units
Aroclor-1016	0.0500U	0.100	0.0310	0.0500	ug/L
Aroclor-1221	0.500U	1.00	0.310	0.500	ug/L
Aroclor-1232	0.0500U	0.100	0.0310	0.0500	ug/L
Aroclor-1242	0.0500U	0.100	0.0310	0.0500	ug/L
Aroclor-1248	0.0500U	0.100	0.0310	0.0500	ug/L
Aroclor-1254	0.0500U	0.100	0.0310	0.0500	ug/L
Aroclor-1260	0.0500U	0.100	0.0310	0.0500	ug/L
Surrogates					
Decachlorobiphenyl (surr)	120	40-135		0	%

Batch Information

Analytical Batch: XGC11336
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW R
Analyst: BRP
Analytical Date/Time: 5/31/2023 8:14:00PM

Prep Batch: XXX47909
Prep Method: SW3520C
Prep Date/Time: 5/26/2023 1:10:31PM
Prep Initial Wt./Vol.: 1000 mL
Prep Extract Vol: 1 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1232117 [XXX47909]
Blank Spike Lab ID: 1714580
Date Analyzed: 05/31/2023 20:24

Spike Duplicate ID: LCSD for HBN 1232117 [XXX47909]
Spike Duplicate Lab ID: 1714581
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1232117001, 1232117002, 1232117003, 1232117004, 1232117005, 1232117006, 1232117007, 1232117008, 1232117009

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	0.740	74	1	0.730	73	(46-129)	1.36	(< 30)
Aroclor-1260	1	0.940	94	1	0.890	89	(45-134)	5.46	(< 30)
Surrogates									
Decachlorobiphenyl (surr)	0.400		118	0.400		120	(40-135)	2.11	

Batch Information

Analytical Batch: **XGC11336**
Analytical Method: **SW8082A**
Instrument: **Agilent 7890B GC ECD SW R**
Analyst: **BRP**

Prep Batch: **XXX47909**
Prep Method: **SW3520C**
Prep Date/Time: **05/26/2023 13:10**
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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CHAIN OF CUSTODY RECORD

362427 DRR

1232117

Profile #: 305909 Int.: DRR

Page 1 of 1

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

Section 1

CLIENT: Stantec	
CONTACT: John Marshall	PHONE #: 907-266-1108
PROJECT NAME: SRU - Plant 10 - SCU 14-3	Project/Permit Number: NPDL Number(DOD): 203721236
REPORTS TO: Craig Wilson	E-MAIL: Craig.Wilson@stantec.com
INVOICE TO: Stantec	QUOTE #: P.O. #:

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Sample Type: Comp / Grab / MI	Analysis*: PCBs	REMARKS/LOC ID
1 AB	CP-A	05/15/23	1340	W	2	G		
2 AB	CP-F	05/15/23	1350	W	2			
3 AB	CP-C	05/15/23	1504	W	2			
4 AB	Duplicate 1	05/15/23	1507	W	2			
5 AB	CP-BR	05/15/23	1515	W	2			
6 AB	MW-3	05/15/23	1635	W	2			
7 AB	MW-2	5/15/23	1649	W	2			
8 AB	Duplicate 2	5/15/23	1652	W	2			
9 AB	MW-1	5/16/23	1003	W	2			

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

Comments: 2 Coolers: Plant 10/SCU 14-3 1/2, 2/2

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) SH

COC Seal Location(s):

Section 5

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
[signature]	5/16/23	1144	
	5/18/23	1144	[signature]

Laboratory Use Only

Cooler ID	Temperature (°C)	Therm. ID
1. 1	4.0	D55
2. 2	2.1	D55
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.

Initials:

SGS

1232117

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: AK
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
1232117001-A	No Preservative Required	OK			
1232117001-B	No Preservative Required	OK			
1232117002-A	No Preservative Required	OK			
1232117002-B	No Preservative Required	OK			
1232117003-A	No Preservative Required	OK			
1232117003-B	No Preservative Required	OK			
1232117004-A	No Preservative Required	OK			
1232117004-B	No Preservative Required	OK			
1232117005-A	No Preservative Required	OK			
1232117005-B	No Preservative Required	OK			
1232117006-A	No Preservative Required	OK			
1232117006-B	No Preservative Required	OK			
1232117007-A	No Preservative Required	OK			
1232117007-B	No Preservative Required	OK			
1232117008-A	No Preservative Required	OK			
1232117008-B	No Preservative Required	OK			
1232117009-A	No Preservative Required	OK			
1232117009-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:	Sydney Souza	**CS Site Name:**	Swanson River Unit	**Lab Name:**	SGS North America Inc
Title:	Environmental Geologist	**ADEC File No.:**	2334.38.017	**Lab Report No.:**	1232117
Consulting Firm:	Stantec	**Hazard ID No.:**	452	**Lab Report Date:**	June 7, 2023

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 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): 4.0 ° C, 2.1 ° C
   Sample temperature(s): Click or tap here to enter text.

Comments: Two coolers were sent to the lab for this event

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: none

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. Is 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

Is the data quality or usability affected? (Explain)

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)266-1148

Report Number: **1235957**

Client Project: **203723261 SRU Plant 10**

Dear Douglas Quist,

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
2023.10.31
14:30:37 -08'00'

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: **1235957**
Project Name/Site: **203723261 SRU Plant 10**
Project Contact: **Douglas Quist**

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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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, 8270D, 8270D-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., 1/2 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-C	1235957001	10/16/2023	10/20/2023	Water (Surface, Eff., Ground)
CP-F	1235957002	10/16/2023	10/20/2023	Water (Surface, Eff., Ground)
CP-A	1235957003	10/16/2023	10/20/2023	Water (Surface, Eff., Ground)
CP-BR	1235957004	10/16/2023	10/20/2023	Water (Surface, Eff., Ground)
Dup	1235957005	10/16/2023	10/20/2023	Water (Surface, Eff., Ground)

Method	Method Description
SW8082A	SW8082 PCB's

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Results of **CP-C**

Client Sample ID: **CP-C**
Client Project ID: **203723261 SRU Plant 10**
Lab Sample ID: 1235957001
Lab Project ID: 1235957

Collection Date: 10/16/23 13:40
Received Date: 10/20/23 13:09
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	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:13
Aroclor-1221	0.530	U	1.06	0.330	0.530	ug/L	1		10/25/23 23:13
Aroclor-1232	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:13
Aroclor-1242	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:13
Aroclor-1248	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:13
Aroclor-1254	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:13
Aroclor-1260	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:13
Surrogates									
Decachlorobiphenyl (surr)	90		40-135			%	1		10/25/23 23:13

Batch Information

Analytical Batch: XGC11438
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 10/25/23 23:13
Container ID: 1235957001-A

Prep Batch: XXX48910
Prep Method: SW3520C
Prep Date/Time: 10/23/23 10:25
Prep Initial Wt./Vol.: 940 mL
Prep Extract Vol: 1 mL

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Results of **CP-F**

Client Sample ID: **CP-F**
Client Project ID: **203723261 SRU Plant 10**
Lab Sample ID: 1235957002
Lab Project ID: 1235957

Collection Date: 10/16/23 14:32
Received Date: 10/20/23 13:09
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	0.0515	U	0.103	0.0320	0.0515	ug/L	1		10/25/23 23:23
Aroclor-1221	0.515	U	1.03	0.320	0.515	ug/L	1		10/25/23 23:23
Aroclor-1232	0.0515	U	0.103	0.0320	0.0515	ug/L	1		10/25/23 23:23
Aroclor-1242	0.0515	U	0.103	0.0320	0.0515	ug/L	1		10/25/23 23:23
Aroclor-1248	0.0515	U	0.103	0.0320	0.0515	ug/L	1		10/25/23 23:23
Aroclor-1254	0.0515	U	0.103	0.0320	0.0515	ug/L	1		10/25/23 23:23
Aroclor-1260	0.0515	U	0.103	0.0320	0.0515	ug/L	1		10/25/23 23:23
Surrogates									
Decachlorobiphenyl (surr)	90		40-135			%	1		10/25/23 23:23

Batch Information

Analytical Batch: XGC11438
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 10/25/23 23:23
Container ID: 1235957002-A

Prep Batch: XXX48910
Prep Method: SW3520C
Prep Date/Time: 10/23/23 10:25
Prep Initial Wt./Vol.: 970 mL
Prep Extract Vol: 1 mL

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Results of **CP-A**

Client Sample ID: **CP-A**
Client Project ID: **203723261 SRU Plant 10**
Lab Sample ID: 1235957003
Lab Project ID: 1235957

Collection Date: 10/16/23 14:35
Received Date: 10/20/23 13:09
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	0.0520	U	0.104	0.0323	0.0520	ug/L	1		10/25/23 23:33
Aroclor-1221	0.520	U	1.04	0.323	0.520	ug/L	1		10/25/23 23:33
Aroclor-1232	0.0520	U	0.104	0.0323	0.0520	ug/L	1		10/25/23 23:33
Aroclor-1242	0.0520	U	0.104	0.0323	0.0520	ug/L	1		10/25/23 23:33
Aroclor-1248	0.0520	U	0.104	0.0323	0.0520	ug/L	1		10/25/23 23:33
Aroclor-1254	0.0520	U	0.104	0.0323	0.0520	ug/L	1		10/25/23 23:33
Aroclor-1260	0.0520	U	0.104	0.0323	0.0520	ug/L	1		10/25/23 23:33
Surrogates									
Decachlorobiphenyl (surr)	97.5		40-135			%	1		10/25/23 23:33

Batch Information

Analytical Batch: XGC11438
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 10/25/23 23:33
Container ID: 1235957003-A

Prep Batch: XXX48910
Prep Method: SW3520C
Prep Date/Time: 10/23/23 10:25
Prep Initial Wt./Vol.: 960 mL
Prep Extract Vol: 1 mL

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Results of **CP-BR**

Client Sample ID: **CP-BR**
Client Project ID: **203723261 SRU Plant 10**
Lab Sample ID: 1235957004
Lab Project ID: 1235957

Collection Date: 10/16/23 15:18
Received Date: 10/20/23 13:09
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	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:44
Aroclor-1221	0.530	U	1.06	0.330	0.530	ug/L	1		10/25/23 23:44
Aroclor-1232	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:44
Aroclor-1242	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:44
Aroclor-1248	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:44
Aroclor-1254	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:44
Aroclor-1260	0.0530	U	0.106	0.0330	0.0530	ug/L	1		10/25/23 23:44
Surrogates									
Decachlorobiphenyl (surr)	97.5		40-135			%	1		10/25/23 23:44

Batch Information

Analytical Batch: XGC11438
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 10/25/23 23:44
Container ID: 1235957004-A

Prep Batch: XXX48910
Prep Method: SW3520C
Prep Date/Time: 10/23/23 10:25
Prep Initial Wt./Vol.: 940 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

Results of **Dup**

Client Sample ID: **Dup**
Client Project ID: **203723261 SRU Plant 10**
Lab Sample ID: 1235957005
Lab Project ID: 1235957

Collection Date: 10/16/23 14:40
Received Date: 10/20/23 13:09
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	0.0525	U	0.105	0.0326	0.0525	ug/L	1		10/25/23 23:54
Aroclor-1221	0.525	U	1.05	0.326	0.525	ug/L	1		10/25/23 23:54
Aroclor-1232	0.0525	U	0.105	0.0326	0.0525	ug/L	1		10/25/23 23:54
Aroclor-1242	0.0525	U	0.105	0.0326	0.0525	ug/L	1		10/25/23 23:54
Aroclor-1248	0.0525	U	0.105	0.0326	0.0525	ug/L	1		10/25/23 23:54
Aroclor-1254	0.0525	U	0.105	0.0326	0.0525	ug/L	1		10/25/23 23:54
Aroclor-1260	0.0525	U	0.105	0.0326	0.0525	ug/L	1		10/25/23 23:54
Surrogates									
Decachlorobiphenyl (surr)	103		40-135			%	1		10/25/23 23:54

Batch Information

Analytical Batch: XGC11438
Analytical Method: SW8082A
Analyst: BRP
Analytical Date/Time: 10/25/23 23:54
Container ID: 1235957005-A

Prep Batch: XXX48910
Prep Method: SW3520C
Prep Date/Time: 10/23/23 10:25
Prep Initial Wt./Vol.: 950 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

Method Blank

Blank ID: MB for HBN 1866367 [XXX/48910]
Blank Lab ID: 1742283

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1235957001, 1235957002, 1235957003, 1235957004, 1235957005

Results by **SW8082A**

Parameter	Results	LOQ/CL	DL	LOD	Units
Aroclor-1016	0.0500U	0.100	0.0310	0.0500	ug/L
Aroclor-1221	0.500U	1.00	0.310	0.500	ug/L
Aroclor-1232	0.0500U	0.100	0.0310	0.0500	ug/L
Aroclor-1242	0.0500U	0.100	0.0310	0.0500	ug/L
Aroclor-1248	0.0500U	0.100	0.0310	0.0500	ug/L
Aroclor-1254	0.0500U	0.100	0.0310	0.0500	ug/L
Aroclor-1260	0.0500U	0.100	0.0310	0.0500	ug/L
Surrogates					
Decachlorobiphenyl (surr)	85	40-135		0	%

Batch Information

Analytical Batch: XGC11436
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW R
Analyst: BRP
Analytical Date/Time: 10/25/2023 9:20:00PM

Prep Batch: XXX48910
Prep Method: SW3520C
Prep Date/Time: 10/23/2023 10:25:00AM
Prep Initial Wt./Vol.: 1000 mL
Prep Extract Vol: 1 mL

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t 907.562.2343 f 907.561.5301 www.us.sgs.com

Blank Spike Summary

Blank Spike ID: LCS for HBN 1235957 [XXX48910]
Blank Spike Lab ID: 1742284
Date Analyzed: 10/25/2023 21:30

Spike Duplicate ID: LCSD for HBN 1235957 [XXX48910]
Spike Duplicate Lab ID: 1742285
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1235957001, 1235957002, 1235957003, 1235957004, 1235957005

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	0.860	86	1	0.820	82	(46-129)	4.76	(< 30)
Aroclor-1260	1	1.12	112	1	0.980	98	(45-134)	13.30	(< 30)
Surrogates									
Decachlorobiphenyl (surr)	0.400		98	0.400		90	(40-135)	8.00	

Batch Information

Analytical Batch: **XGC11436**
Analytical Method: **SW8082A**
Instrument: **Agilent 7890B GC ECD SW R**
Analyst: **BRP**

Prep Batch: **XXX48910**
Prep Method: **SW3520C**
Prep Date/Time: **10/23/2023 10:25**
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

1235957

Profile #: 362427 Int.: JB

Page 1 of 1

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

Section 1

CLIENT: Stantec	
CONTACT: Sydney Soura	PHONE #: 907-229-1514
PROJECT NAME: SRU Plant 10	Project/Permit Number: 203723261 NPDL Number(DOD):
REPORTS TO: Mike Zidek	E-MAIL: Sydney.Soura@Stantec.com
INVOICE TO: Stantec	QUOTE #: P.O. #: 203723261

Section 2

Section 3 — Preservative

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Sample Type: Comp / Grab / MI	Analysis*: 8082 PCB	REMARKS/LOC ID
1AB	CP-C	10/16/23	13:40	GW	2	G	X	
2AB	CP-F	↓	14:32	↓	2	↓	X	
3AB	CP-A	↓	14:35	↓	2	↓	X	
4AB	CP-BR	↓	15:18	↓	2	↓	X	
5AB	Dup	↓	14:40	↓	2	↓	X	Duplicate

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:
	10/20/23	11:30	
	10/20/23	13:09	

DATE TIME RECEIVED BY

Laboratory Use Only

Cooler ID	Temperature (°C)	Therm. ID
1.	1.4	D63
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.

Initials:_____

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

SGS

1235957

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)	Ref:
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: MAC

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
1235957001-A	No Preservative Required	OK			
1235957001-B	No Preservative Required	OK			
1235957002-A	No Preservative Required	OK			
1235957002-B	No Preservative Required	OK			
1235957003-A	No Preservative Required	OK			
1235957003-B	No Preservative Required	OK			
1235957004-A	No Preservative Required	OK			
1235957004-B	No Preservative Required	OK			
1235957005-A	No Preservative Required	OK			
1235957005-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:	Sydney Souza	**CS Site Name:**	Swanson River Unit	**Lab Name:**	SGS North America Inc
Title:	Environmental Geologist	**ADEC File No.:**	2334.38.017	**Lab Report No.:**	1235957
Consulting Firm:	Stantec	**Hazard ID No.:**	452	**Lab Report Date:**	October 31, 2023

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 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): 1.4° C
   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: No preservatives

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: none

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. Is 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

Is the data quality or usability affected? (Explain)

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.

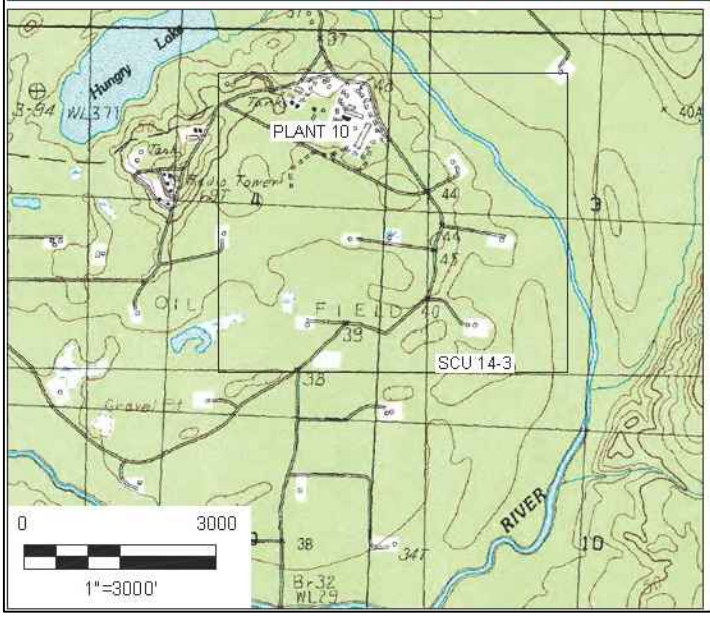
iv. Are data quality or usability affected?
Yes ☐ No ☐ N/A ☒
Comments: Click or tap here to enter text.

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.

Reference: Chevron Swanson River Plant 10 and SCU 14-3 PCB Monitoring Report for 2023ADEC File Number 2334.38.016, Hazard ID 1303

Attachment C
Figures



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

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: fig1_slm_10

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