Stage 2A Review
Data Quality Control (QC)

Site: PHSS-SIB PDI	SDG #: Case 23F0232
Laboratory: ARI	Date: 8/22/2023
HydroGeoLogic, Inc. Reviewer: Deanna Valdebenito Peer Reviewer: Ken Rapuano (8.28.23)	Project: DT2002

Client Sample ID	Laboratory Sample ID	Analyses	Matrix
SIB-095-TOB-1-2-10072022	23F0232-01	PCB Aroclors and Total Metals	Solid
SIB-095-TOB-2-3-10072022	23F0232-02	PCB Aroclors and Total Metals	Solid
SIB-094-TOB-1-2-10072022	23F0232-03	PCB Aroclors and Total Metals	Solid
SIB-094-TOB-2-3-10072022	23F0232-04	PCB Aroclors and Total Metals	Solid
SIB-093-OHW-1-2-10072022	23F0232-05	PCB Aroclors and Total Metals	Solid
SIB-093-OHW-2-3-10072022	23F0232-06	PCB Aroclors and Total Metals	Solid
SIB-093-TOB-1-2-10072022	23F0232-07	PCB Aroclors and Total Metals	Solid
SIB-093-TOB-2-3-10072022	23F0232-08	PCB Aroclors and Total Metals	Solid
SIB-092-MLW-1-2-10102022	23F0232-09	Total Metals	Solid
SIB-092-TOB-1-2-10102022	23F0232-10	PCB Aroclors and Total Metals	Solid
SIB-091-TOB-1-2-10102022	23F0232-11	PCB Aroclors and Total Metals	Solid
SIB-091-TOB-2-3-10102022	23F0232-12	PCB Aroclors and Total Metals	Solid
SIB-090-MLW-1-2-10102022	23F0232-13	PCB Aroclors and Total Metals	Solid
SIB-090-OHW-1-2-10102022	23F0232-14	PCB Aroclors and Total Metals	Solid
SIB-090-TOB-1-2-10102022	23F0232-15	PCB Aroclors and Total Metals	Solid
SIB-089-MLW-1-2-10102022	23F0232-16	PCB Aroclors and Total Metals	Solid
SIB-089-OHW-1-2-10102022	23F0232-17	PCB Aroclors and Total Metals	Solid
SIB-088-MLW-1-2-10102022	23F0232-18	Total Metals	Solid
SIB-088-OHW-1-2-10102022	23F0232-19	PCB Aroclors and Total Metals	Solid
SIB-087-MLW-1-2-10102022	23F0232-20	Total Metals	Solid

The following Stage 2A review was performed on the requested analyses. No results were rejected, and analytical completeness is 100%.

Narrative and Completeness Review – The case narrative and data package were checked for completeness.

Qualification: None required.

Sample Delivery and Condition – All samples arrived intact at the laboratory in acceptable condition and temperature and were properly preserved.

Qualification: None required.

Holding Times – All samples were prepared and analyzed within their required holding times. The narrative noted that mercury and PCB Aroclors samples were frozen to extend holding times; this is in accordance with the QAPP archiving protocols. All mercury samples were analyzed on day 290 or 293 from collection,

which is greater than the 180-day holding time for frozen mercury samples. All mercury results are detections and should be qualified J, reason code HTA.

***Qualification:* All mercury results are qualified J, reason code HTA.**

Method Blanks – All method blanks were free from contamination.

Qualification: None required.

Rinsate Blanks – Equipment rinse blanks EB01-10052022 (results reported in SDG 22J0175) and EB02-10102022 (results reported in SDG 22J0175) are associated with all sample results reported in this SDG. The rinse blank EB01-10052022 was contaminated with a low level of chromium; chromium is not a target analyte for sediment samples and no qualification is required. EB02-10102022 was free from contamination.

Qualification: None required.

Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) – All LCS/LCSD %Rs and RPDs were within QAPP control limits. A standard reference material was also reported for each PCB, metals, and mercury preparation batch; the SRM %Rs met the control limits.

Qualification: None required.

Surrogates – All surrogates were within QAPP control limits.

Qualification: None required.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) –

An MS/MSD was performed on sample SIB-088-OHW-1-2-10102022 (Method 8082A) and had all %R and RPDs within QAPP control limits.

Qualification: None required.

An MS/MSD was performed on sample SIB-095-TOB-1-2-10072022 (metals) and had all %R and RPDs within QAPP control limits.

Qualification: None required.

Field Duplicate – A field duplicate was not submitted with the samples in this SDG.

Qualification: None required.

Laboratory Duplicate – A laboratory duplicate was performed on sample SIB-095-TOB-1-2-10072022 (metals). All the RPDs of the duplicate pairs met the acceptance criteria.

Qualification: None required.

Compound Quantitation – Analyte results were reported with the associated DL, LOD, and LOQ in the DoD format instead of with the associated MDL and RL. Non-detected results were reported on the hardcopy as <#, where # corresponds to the LOD. The HGL reviewer confirmed that the value associated with non-detected results in the EDD is the MDL, in accordance with the project reporting requirements. Analytes detected between the MDL and RL were reported as J-qualified results by the laboratory. These J qualifiers were retained unless superseded by a more severe qualifier.

Qualification: None required.

Qualification Summary Table (concentrations in µg/kg [Aroclors] or mg/kg [metals]):

Sample	Analyte	Lab Value	Lab Qualifier	Validated Value	Validated Qualifier	Reason Code
SIB-095-TOB-1-2-10072022	Mercury	0.248	--	0.248	J	HTA
SIB-095-TOB-2-3-10072022	Mercury	0.141	--	0.141	J	HTA
SIB-094-TOB-1-2-10072022	Mercury	0.0793	--	0.0793	J	HTA
SIB-094-TOB-2-3-10072022	Mercury	0.223	--	0.223	J	HTA
SIB-093-OHW-1-2-10072022	Mercury	0.433	--	0.433	J	HTA
SIB-093-OHW-2-3-10072022	Mercury	0.213	--	0.213	J	HTA
SIB-093-TOB-1-2-10072022	Mercury	0.234	--	0.234	J	HTA
SIB-093-TOB-2-3-10072022	Mercury	0.198	--	0.198	J	HTA
SIB-092-MLW-1-2-10102022	Mercury	0.0896	--	0.0896	J	HTA
SIB-092-TOB-1-2-10102022	Mercury	0.211	--	0.211	J	HTA
SIB-091-TOB-1-2-10102022	Mercury	0.166	--	0.166	J	HTA
SIB-091-TOB-2-3-10102022	Mercury	0.122	--	0.122	J	HTA
SIB-090-MLW-1-2-10102022	Mercury	0.0451	--	0.0451	J	HTA
SIB-090-OHW-1-2-10102022	Mercury	0.413	--	0.413	J	HTA
SIB-090-TOB-1-2-10102022	Mercury	0.124	--	0.124	J	HTA
SIB-089-MLW-1-2-10102022	Mercury	0.0439	--	0.0439	J	HTA
SIB-089-OHW-1-2-10102022	Mercury	0.136	--	0.136	J	HTA
SIB-088-MLW-1-2-10102022	Mercury	0.0359	--	0.0359	J	HTA
SIB-088-OHW-1-2-10102022	Mercury	0.0545	--	0.0545	J	HTA
SIB-087-MLW-1-2-10102022	Mercury	0.0327	--	0.0327	J	HTA