High-Resolution Gas Chromatography/High-Resolution Mass Spectrometry
PCCDs/PCDFs (EPA Method 1613B)
Stage 2A Review
Data Quality Control (QC)

Site: PHSS-Swan Island Basin	SDG #: 21632
Laboratory: CFA	Project #: DT2002.03.03.04.01
HydroGeoLogic, Inc. Validator: John Tracy	Validation Date: 09.11.23
HGL Peer Reviewer: Ken Rapuano	Peer Review Date: 9.14.23

Client Sample ID	Laboratory Sample ID	Matrix
SIB-078-TOB-0-1-10122022	21632001	Riverbank Soil
SIB-005-OHW-1-2-10172022	21632002	Riverbank Soil
SIB-049-OHW-1-2-10202022	21632003	Riverbank Soil
SIB-062-MLW-1-2-10182022	21632004	Riverbank Soil
SIB-063-MLW-1-2-10182022	21632005	Riverbank Soil
SIB-065-OHW-1-2-10182022	21632006	Riverbank Soil
SIB-065-OHW-2-3-10182022	21632007	Riverbank Soil
SIB-064-MLW-1-2-10182022	21632008	Riverbank Soil
SIB-066-MLW-1-2-10182022	21632009	Riverbank Soil
SIB-066-OHW-1-2-10182022	21632010	Riverbank Soil
SIB-066-OHW-2-3-10182022	21632011	Riverbank Soil
SIB-066-TOB-1-2-10182022	21632012	Riverbank Soil
SIB-066-TOB-2-3-10182022	21632013	Riverbank Soil
SIB-067-TOB-1-2-10142022	21632014	Riverbank Soil
SIB-067-TOB-2-3-10142022	21632015	Riverbank Soil
SIB-067-OHW-1-2-10142022	21632016	Riverbank Soil
SIB-067-OHW-2-3-10142022	21632017	Riverbank Soil
SIB-067-MLW-1-2-10142022	21632018	Riverbank Soil
SIB-068-OHW-1-2-10142022	21632019	Riverbank Soil
SIB-068-TOB-1-2-10142022	21632020	Riverbank Soil

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. No completeness issues were noted.

Qualification: None required.

Sample Delivery and Condition – All samples arrived intact at the laboratory in acceptable condition and temperature and were properly preserved. No other discrepancies were noted.

Qualification: None required.

Holding Times – All samples were prepared and analyzed within their required holding times.

Qualification: None required.

Method Blanks – The method 1613B method bank was contaminated with target analytes including the following:

- 1,2,3,4,7,8-HxCDD at 0.266 pg/g, leading to a qualification limit of 1.33 pg/g
- 1,2,3,7,8,9-HxCDD at 0.322 pg/g, leading to a qualification limit of 1.61 pg/g
- 1,2,3,4,6,7,8-HpCDD at 0.558 pg/g, leading to a qualification limit of 2.79 pg/g
- 1,2,3,4,6,7,8,9-OCDD at 1.88 pg/g, leading to a qualification limit of 9.4 pg/g
- 1,2,3,7,8-PeCDF at 0.418 pg/g, leading to a qualification limit of 2.09 pg/g
- 2,3,4,7,8-PeCDF at 0.274 pg/g, leading to a qualification limit of 1.37 pg/g
- 1,2,3,4,7,8-HxCDF at 0.496 pg/g, leading to a qualification limit of 2.48 pg/g
- 1,2,3,6,7,8-HxCDF at 0.312 pg/g, leading to a qualification limit of 1.56 pg/g
- 2,3,4,6,7,8-HxCDF at 0.290 pg/g, leading to a qualification limit of 1.45 pg/g
- 1,2,3,4,6,7,8-HpCDF at 0.792 pg/g, leading to a qualification limit of 3.96 pg/g

Detections in associated samples less than or equal to the qualification limits should be qualified U-MBL.

Qualification: **The following results were qualified U-MBL; the detect_flag for the affected results is changed from Y to N.**

- **The 1,2,3,4,7,8-HxCDD results in samples SIB-067-TOB-2-3-10142022 and SIB-068-OHW-1-2-10142022**
- **The 1,2,3,7,8,9-HxCDD results in samples SIB-005-OHW-1-2-10172022, SIB-049-OHW-1-2-10202022, SIB-063-MLW-1-2-10182022, SIB-066-MLW-1-2-10182022, SIB-066-OHW-1-2-10182022, SIB-066-OHW-2-3-10182022, SIB-066-TOB-1-2-10182022, SIB-066-TOB-2-3-10182022, and SIB-067-TOB-2-3-10142022**
- **The 1,2,3,7,8-PeCDF results in samples SIB-049-OHW-1-2-10202022, SIB-062-MLW-1-2-10182022, SIB-063-MLW-1-2-10182022, SIB-065-OHW-1-2-10182022, SIB-065-OHW-2-3-10182022, SIB-064-MLW-1-2-10182022, SIB-066-OHW-1-2-10182022, SIB-066-OHW-2-3-10182022, SIB-066-TOB-1-2-10182022, SIB-066-TOB-2-3-10182022, SIB-067-TOB-1-2-10142022, SIB-067-TOB-2-3-10142022, SIB-067-OHW-1-2-10142022, SIB-067-MLW-1-2-10142022, and SIB-068-TOB-1-2-10142022**
- **The 2,3,4,7,8-PeCDF results in samples SIB-005-OHW-1-2-10172022, SIB-049-OHW-1-2-10202022, SIB-063-MLW-1-2-10182022, and SIB-067-TOB-1-2-10142022**
- **The 1,2,3,4,7,8-HxCDF results in samples SIB-005-OHW-1-2-10172022, SIB-049-OHW-1-2-10202022, SIB-063-MLW-1-2-10182022, SIB-065-OHW-1-2-10182022, SIB-065-OHW-2-3-10182022, SIB-066-MLW-1-2-10182022, SIB-066-OHW-1-2-10182022, SIB-066-OHW-2-3-10182022, SIB-066-TOB-1-2-10182022, SIB-066-TOB-2-3-10182022, SIB-067-TOB-1-2-10142022, SIB-067-TOB-2-3-10142022, SIB-067-MLW-1-2-10142022, and SIB-068-TOB-1-2-10142022**
- **The 1,2,3,6,7,8-HxCDF results in samples SIB-005-OHW-1-2-10172022, SIB-049-OHW-1-2-10202022, SIB-063-MLW-1-2-10182022, SIB-065-OHW-1-2-10182022, SIB-066-MLW-1-2-10182022, SIB-066-OHW-1-2-10182022, SIB-066-OHW-2-3-10182022, SIB-066-TOB-1-2-10182022, SIB-066-TOB-2-3-10182022, SIB-067-TOB-1-2-10142022, SIB-067-TOB-2-3-10142022, SIB-067-MLW-1-2-10142022, and SIB-068-OHW-1-2-10142022**
- **The 2,3,4,6,7,8-HxCDF results in samples SIB-005-OHW-1-2-10172022, SIB-049-OHW-1-2-10202022, SIB-063-MLW-1-2-10182022, SIB-065-OHW-1-2-10182022, SIB-066-MLW-1-2-10182022, SIB-066-OHW-1-2-10182022, SIB-066-TOB-1-2-10182022, SIB-066-TOB-2-3-10182022, SIB-067-TOB-1-2-10142022, SIB-067-TOB-2-3-10142022, SIB-068-OHW-1-2-10142022**
- **The 1,2,3,4,6,7,8-HpCDF results in samples SIB-065-OHW-1-2-10182022, SIB-065-OHW-2-3-10182022, SIB-066-MLW-1-2-10182022, SIB-066-OHW-1-2-10182022, SIB-066-OHW-2-3-10182022, SIB-066-TOB-1-2-10182022, SIB-066-TOB-2-3-10182022,**

SIB-067-TOB-2-3-10142022, SIB-067-MLW-1-2-10142022, and SIB-068-TOB-1-2-10142022

Rinsate Blanks – Equipment blank EB02-10102022 (results reported in SDG 20574) is associated with all samples collected on 10/12/2022 and 10/14/2022 and equipment blank EB03-10192022 (results reported in SDG 20699) is associated with all other samples . Due to the differences in mass extracted, the concentrations reported as pg/L in EBs correspond to the 0.1 x concentration in pg/g in oil samples. OCDD was detected in rinse blank EB02-10102022, but the detected concentration was similar to the concentration in the associated aqueous method blank. The OCDD detected in the rinse blank is attributable to laboratory contamination in aqueous sample preparation and no qualification of solid matrix samples is required. OCDD was detected at 4.08 pg/L in rinse blank EB03-10192022, leading to a qualification level of 2.04 pg/g. All OCDD results in associated samples were greater than the qualification level and no qualification is required.

Qualification: None required.

Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) – LCS/LCSD %Rs and RPDs were within QAPP control limits.

Qualification: None required.

Surrogates – All surrogates (labeled standards) were within control limits.

Qualification: None required.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) – An MS/MSD was performed using sample SIB-078-TOB-0-1-10122022. All %Rs were within QAPP control limits in the MS/MSD with the exception of 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8,9-OCDD, 2,3,4,7,8-PeCDF, 1,2,3,4,6,7,8-HpCDF, and 1,2,3,4,6,7,8,9-OCDF. For 1,2,3,4,6,7,8-HpCDD and 1,2,3,4,6,7,8,9-OCDD, the sample concentration was >4x the spike concentration and the %R results are not applicable. The results for 2,3,4,7,8-PeCDF, 1,2,3,4,6,7,8-HpCDF, and 1,2,3,4,6,7,8,9-OCDF in the parent sample should be qualified J. All RPDs were within QAPP control limits.

***Qualification:* The 2,3,4,7,8-PeCDF, 1,2,3,4,6,7,8-HpCDF, and 1,2,3,4,6,7,8,9-OCDF results in sample SIB-078-TOB-0-1-10122022 are qualified J, reason code MSH.**

Field Duplicate – No field duplicate was submitted with this SDG.

Qualification: None required.

Compound Quantitation – Analyte non-detections were reported as the EDL and qualified U. Analytes detected between the EDL and PQL were reported as J-qualified results by the laboratory. These J qualifiers were retained unless superseded by a more severe qualifier.

If a detected analyte has an ion ration outside the characteristic ion ratio window, the result is reported as an estimated maximum potential concentration. All results reported as an EMPC (a “K” flag is present in the laboratory qualifier) are qualified J-EMPC unless superseded by a higher priority qualifier.

2,3,7,8-TCDF is not fully resolved on the DB-5MS column; when detected above the PQL on the DB-5MS column, the result was confirmed on a DB-225 column using the instrument ID listed in the case narrative. In cases where two results are reported for 2,3,7,8-TCDF for a sample, the result from the DB-225 column is selected for use and the result from the DB-5MS is qualified DNR-EXC.

In cases where a target analyte is detected at a concentration above the calibrated range, the laboratory's practice is to report the result with a laboratory qualifier of E without running a dilution so long as the detector is not saturated. The OCDD results for 3 affected samples are qualified J-ACR.

Qualification: **The following results are qualified:**

- **All results reported with a laboratory qualifier of K are qualified J with reason code EMPC.**
- **All 2,3,7,8-TCDF results reported from the DB-5MS column that are paired with a 2,3,7,8-TCDF result from the DB-225 column are qualified DNR, reason code EXC; note that the reportable_result field for these results are populated with "Yes" by the laboratory and are changed to "No" for the affected results.**
- **Three OCDD results reported with a laboratory qualifier of E are qualified J with reason code ACR; note that the reportable_result field for these results are populated with "No" by the laboratory and are changed to "Yes" for the affected results.**
- **One total heptachloro-p-dioxin result reported with a laboratory qualifier of E has the reportable_result field populated with "No" by the laboratory and is changed to "Yes". Although total congener results are not validated, this result is reportable.**

Qualification Summary Table (results in pg/g):

Sample	Analyte	Lab Value	Lab Qualifier	Validated Value	Validated Qualifier	Reason Code
SIB-078-TOB-0-1-10122022	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	198	--	198	J	MSH
SIB-078-TOB-0-1-10122022	2,3,4,7,8-PENTACHLORODIBENZOFURAN	84.9	--	84.9	J	MSH
SIB-078-TOB-0-1-10122022	2,3,7,8-TETRACHLORODIBENZOFURAN	5.34	--	5.34	DNR	EXC
SIB-078-TOB-0-1-10122022	OCTACHLORODIBENZOFURAN	210	--	210	J	MSH
SIB-078-TOB-0-1-10122022	OCTACHLORODIBENZO-P-DIOXIN	4740	E	4740	J	ACR
SIB-005-OHW-1-2-10172022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	1.58	BJ	1.58	U	MBL
SIB-005-OHW-1-2-10172022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.377	BJK	0.377	UJ	MBL,EMPC
SIB-005-OHW-1-2-10172022	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	1.31	BJ	1.31	U	MBL
SIB-005-OHW-1-2-10172022	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	0.543	JK	0.543	J	EMPC
SIB-005-OHW-1-2-10172022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	0.707	BJK	0.707	UJ	MBL,EMPC
SIB-005-OHW-1-2-10172022	2,3,4,7,8-PENTACHLORODIBENZOFURAN	0.931	BJ	0.931	U	MBL
SIB-005-OHW-1-2-10172022	2,3,7,8-TETRACHLORODIBENZOFURAN	0.769	JK	0.769	J	EMPC
SIB-049-OHW-1-2-10202022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	1.21	BJ	1.21	U	MBL
SIB-049-OHW-1-2-10202022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.36	BJ	0.36	U	MBL
SIB-049-OHW-1-2-10202022	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.284	BJK	0.284	UJ	MBL,EMPC
SIB-049-OHW-1-2-10202022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.493	BJ	0.493	U	MBL
SIB-049-OHW-1-2-10202022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	0.527	BJK	0.527	UJ	MBL,EMPC
SIB-049-OHW-1-2-10202022	2,3,4,7,8-PENTACHLORODIBENZOFURAN	0.499	BJ	0.499	U	MBL
SIB-062-MLW-1-2-10182022	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	1.68	JK	1.68	J	EMPC
SIB-062-MLW-1-2-10182022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	2.76	BJK	2.76	J	EMPC
SIB-062-MLW-1-2-10182022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	1.19	BJ	1.19	U	MBL
SIB-062-MLW-1-2-10182022	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	1.03	JK	1.03	J	EMPC
SIB-062-MLW-1-2-10182022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	2.65	BJK	2.65	J	EMPC
SIB-062-MLW-1-2-10182022	2,3,7,8-TETRACHLORODIBENZOFURAN	1.37	K	1.37	J	EMPC
SIB-062-MLW-1-2-10182022	2,3,7,8-TETRACHLORODIBENZOFURAN	1.12	--	1.12	DNR	EXC
SIB-063-MLW-1-2-10182022	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	0.626	JK	0.626	J	EMPC
SIB-063-MLW-1-2-10182022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	0.518	BJK	0.518	UJ	MBL,EMPC
SIB-063-MLW-1-2-10182022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.518	BJ	0.518	U	MBL
SIB-063-MLW-1-2-10182022	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	1.07	JK	1.07	J	EMPC
SIB-063-MLW-1-2-10182022	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.451	BJ	0.451	U	MBL

Sample	Analyte	Lab Value	Lab Qualifier	Validated Value	Validated Qualifier	Reason Code
SIB-063-MLW-1-2-10182022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.24	BJK	0.24	UJ	MBL,EMPC
SIB-063-MLW-1-2-10182022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	0.727	BJK	0.727	UJ	MBL,EMPC
SIB-063-MLW-1-2-10182022	2,3,4,7,8-PENTACHLORODIBENZOFURAN	1.06	BJ	1.06	U	MBL
SIB-065-OHW-1-2-10182022	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1.3	BJ	1.3	U	MBL
SIB-065-OHW-1-2-10182022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	0.452	BJ	0.452	U	MBL
SIB-065-OHW-1-2-10182022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.147	BJ	0.147	U	MBL
SIB-065-OHW-1-2-10182022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.494	BJK	0.494	UJ	MBL,EMPC
SIB-065-OHW-1-2-10182022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	0.157	BJ	0.157	U	MBL
SIB-065-OHW-2-3-10182022	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1.03	BJ	1.03	U	MBL
SIB-065-OHW-2-3-10182022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	0.361	BJK	0.361	UJ	MBL,EMPC
SIB-065-OHW-2-3-10182022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.454	BJ	0.454	U	MBL
SIB-064-MLW-1-2-10182022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.737	BJ	0.737	U	MBL
SIB-064-MLW-1-2-10182022	2,3,7,8-TETRACHLORODIBENZOFURAN	0.945	JK	0.945	J	EMPC
SIB-066-MLW-1-2-10182022	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1.24	BJK	1.24	UJ	MBL,EMPC
SIB-066-MLW-1-2-10182022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	0.343	BJK	0.343	UJ	MBL,EMPC
SIB-066-MLW-1-2-10182022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.237	BJ	0.237	U	MBL
SIB-066-MLW-1-2-10182022	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.351	JK	0.351	J	EMPC
SIB-066-MLW-1-2-10182022	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.295	BJK	0.295	UJ	MBL,EMPC
SIB-066-MLW-1-2-10182022	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	0.263	JK	0.263	J	EMPC
SIB-066-MLW-1-2-10182022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	0.219	BJ	0.219	U	MBL
SIB-066-OHW-1-2-10182022	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	3.73	BJ	3.73	U	MBL
SIB-066-OHW-1-2-10182022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	0.839	BJ	0.839	U	MBL
SIB-066-OHW-1-2-10182022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.238	BJ	0.238	U	MBL
SIB-066-OHW-1-2-10182022	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.559	JK	0.559	J	EMPC
SIB-066-OHW-1-2-10182022	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.393	BJK	0.393	UJ	MBL,EMPC
SIB-066-OHW-1-2-10182022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.763	BJ	0.763	U	MBL
SIB-066-OHW-1-2-10182022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	0.287	BJ	0.287	U	MBL
SIB-066-OHW-2-3-10182022	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	3.88	BJ	3.88	U	MBL
SIB-066-OHW-2-3-10182022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	1	BJ	1	U	MBL
SIB-066-OHW-2-3-10182022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.339	BJK	0.339	UJ	MBL,EMPC
SIB-066-OHW-2-3-10182022	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.66	JK	0.66	J	EMPC
SIB-066-OHW-2-3-10182022	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.594	BJK	0.594	UJ	MBL,EMPC

Sample	Analyte	Lab Value	Lab Qualifier	Validated Value	Validated Qualifier	Reason Code
SIB-066-OHW-2-3-10182022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.854	BJK	0.854	UJ	MBL,EMPC
SIB-066-TOB-1-2-10182022	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	3.65	BJ	3.65	U	MBL
SIB-066-TOB-1-2-10182022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	0.694	BJ	0.694	U	MBL
SIB-066-TOB-1-2-10182022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.224	BJ	0.224	U	MBL
SIB-066-TOB-1-2-10182022	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.473	BJ	0.473	U	MBL
SIB-066-TOB-1-2-10182022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	1.01	BJ	1.01	U	MBL
SIB-066-TOB-1-2-10182022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	0.245	BJK	0.245	UJ	MBL,EMPC
SIB-066-TOB-2-3-10182022	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	3.28	BJ	3.28	U	MBL
SIB-066-TOB-2-3-10182022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	0.52	BJ	0.52	U	MBL
SIB-066-TOB-2-3-10182022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.207	BJK	0.207	UJ	MBL,EMPC
SIB-066-TOB-2-3-10182022	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.56	JK	0.56	J	EMPC
SIB-066-TOB-2-3-10182022	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.321	BJ	0.321	U	MBL
SIB-066-TOB-2-3-10182022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.761	BJ	0.761	U	MBL
SIB-066-TOB-2-3-10182022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	0.249	BJK	0.249	UJ	MBL,EMPC
SIB-067-TOB-1-2-10142022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	1.89	BJ	1.89	U	MBL
SIB-067-TOB-1-2-10142022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	1.06	BJ	1.06	U	MBL
SIB-067-TOB-1-2-10142022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	1	BJ	1	U	MBL
SIB-067-TOB-1-2-10142022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	1.26	BJK	1.26	UJ	MBL,EMPC
SIB-067-TOB-1-2-10142022	2,3,4,7,8-PENTACHLORODIBENZOFURAN	0.854	BJ	0.854	U	MBL
SIB-067-TOB-2-3-10142022	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	3.85	BJ	3.85	U	MBL
SIB-067-TOB-2-3-10142022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	0.588	BJ	0.588	U	MBL
SIB-067-TOB-2-3-10142022	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.444	BJ	0.444	U	MBL
SIB-067-TOB-2-3-10142022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.246	BJK	0.246	UJ	MBL,EMPC
SIB-067-TOB-2-3-10142022	1,2,3,7,8,9-HEXACHLORODIBENZOFURAN	0.174	JK	0.174	J	EMPC
SIB-067-TOB-2-3-10142022	1,2,3,7,8,9-HEXACHLORODIBENZO-P-DIOXIN	0.832	BJ	0.832	U	MBL
SIB-067-TOB-2-3-10142022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.551	BJ	0.551	U	MBL
SIB-067-TOB-2-3-10142022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	0.323	BJK	0.323	UJ	MBL,EMPC
SIB-067-OHW-1-2-10142022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	1.57	BJ	1.57	U	MBL
SIB-067-OHW-1-2-10142022	OCTACHLORODIBENZO-P-DIOXIN	5540	E	5540	J	ACR
SIB-067-OHW-2-3-10142022	2,3,7,8-TETRACHLORODIBENZOFURAN	1.24	--	1.24	DNR	EXC
SIB-067-OHW-2-3-10142022	OCTACHLORODIBENZO-P-DIOXIN	11500	E	11500	J	ACR
SIB-067-MLW-1-2-10142022	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1.32	BJ	1.32	U	MBL

Sample	Analyte	Lab Value	Lab Qualifier	Validated Value	Validated Qualifier	Reason Code
SIB-067-MLW-1-2-10142022	1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN	6.19	K	6.19	J	EMPC
SIB-067-MLW-1-2-10142022	1,2,3,4,7,8,9-HEPTACHLORODIBENZOFURAN	0.199	JK	0.199	J	EMPC
SIB-067-MLW-1-2-10142022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	0.37	BJ	0.37	U	MBL
SIB-067-MLW-1-2-10142022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.136	BJK	0.136	UJ	MBL,EMPC
SIB-067-MLW-1-2-10142022	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.307	JK	0.307	J	EMPC
SIB-067-MLW-1-2-10142022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.658	BJ	0.658	U	MBL
SIB-067-MLW-1-2-10142022	2,3,7,8-TETRACHLORODIBENZOFURAN	0.264	JK	0.264	J	EMPC
SIB-068-OHW-1-2-10142022	1,2,3,4,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.638	BJ	0.638	U	MBL
SIB-068-OHW-1-2-10142022	1,2,3,6,7,8-HEXACHLORODIBENZOFURAN	0.894	BJK	0.894	UJ	MBL,EMPC
SIB-068-OHW-1-2-10142022	2,3,4,6,7,8-HEXACHLORODIBENZOFURAN	0.872	BJ	0.872	U	MBL
SIB-068-OHW-1-2-10142022	2,3,7,8-TETRACHLORODIBENZOFURAN	0.787	JK	0.787	J	EMPC
SIB-068-TOB-1-2-10142022	1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	1.28	BJ	1.28	U	MBL
SIB-068-TOB-1-2-10142022	1,2,3,4,7,8-HEXACHLORODIBENZOFURAN	0.336	BJK	0.336	UJ	MBL,EMPC
SIB-068-TOB-1-2-10142022	1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	0.34	JK	0.34	J	EMPC
SIB-068-TOB-1-2-10142022	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.443	BJ	0.443	U	MBL