# REVISED DATA VALIDATION REPORT

# HGL – SWAN ISLAND BASIN

**Prepared for:**

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EcoChem Project: C28601-1

SDG: 22E0325

January 18, 2023

**Approved for Release:**

Michela Hernandez
Senior Project Chemist
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# PROJECT NARRATIVE

*Basis for the Data Validation*

*This revised report reflects updates to reason codes from "VJ" to "EXC"* (validator judgment, to result excluded; another data point for this analyte was selected for use).

The report summarizes the results of full validation (EPA Stage 4) performed on storm water and quality control sample data for the Swan Island Basin project. A complete list of samples is provided in the Sample Index.

Samples were analyzed by Analytical Resources, Inc. (ARI), Tukwila, Washington. The analytical methods and EcoChem project chemists are listed in the following table:

| ANALYSIS | METHOD | PRIMARY REVIEW | SECONDARY REVIEW |
|---|---|---|---|
| PCBs | SW8082A | I. Hooper | A. Bodkin |

The data were reviewed using guidance and quality control criteria documented in the analytical methods; Uniform Federal Policy Quality Assurance Project Plan Revision 3, Remedial Design Services Swan Island Basin Project Area (HGL, Pacific Groundwater Group, Mott MacDonald and Bridgewater Group, May 2022); National Functional Guidelines for Organic Data Review (USEPA 2020); and National Functional Guidelines for Inorganic Data Review (USEPA 2020).

EcoChem's goal in assigning data assessment qualifiers is to assist in proper data interpretation. If values are estimated (J or UJ), data may be used for site evaluation and risk assessment purposes but reasons for data qualification should be taken into consideration when interpreting sample concentrations. If values are assigned a DNR flag (do-not-report) or are rejected (R), the data should not be used for any site evaluation purposes. If values have no data qualifier assigned, then the data meet the data quality objectives as stated in the documents and methods referenced above.

Data qualifier definitions, and reason codes are included as Appendix A. A Qualified Data Summary Table is included in Appendix B. Data Validation Worksheets and project associated communications will be kept on file at EcoChem, Inc. A qualified laboratory electronic data deliverable (EDD) is also submitted with this report.

# Sample Index
## Swan Island Basin

| SDG | SAMPLE ID | LAB ID | MATRIX | PCB |
|---|---|---|---|---|
| 22E0325 | SIB-SW-WR198-050522 | 22E0325-01 | W | ✓ |
| 22E0325 | SIB-SW-WR186-050522 | 22E0325-02 | W | ✓ |
| 22E0325 | SIB-SW-WR15-050522 | 22E0325-03 | W | ✓ |
| 22E0325 | SIB-SW-WR428-050522 | 22E0325-04 | W | ✓ |
| 22E0325 | SIB-SW-WR71-050522 | 22E0325-05 | W | ✓ |

# DATA VALIDATION REPORT
# HydroGeologics -Swan Island Basin
# PCB Aroclors by Method SW8082A

This report documents the review of analytical data from the analyses of storm water samples and the associated laboratory quality control (QC) samples. Samples were analyzed by Analytical Resources LLC, in Tukwila, WA. Refer to the Sample Index for a complete list of samples.

| SDG | NUMBER OF SAMPLES | VALIDATION LEVEL |
|---|---|---|
| 22E0325 | 5 Storm Water | Stage 4 |

## DATA PACKAGE COMPLETENESS

The laboratory submitted all required deliverables. The laboratory followed adequate corrective action processes. With the exceptions noted below, anomalies were discussed in the case narrative.

The case narrative states that initial and continuing calibrations were within method requirements. However, outliers were found in the initial calibration verification.

## EDD TO HARDCOPY VERIFICATION

All sample IDs reported in the electronic data deliverable (EDD) were verified (100%) by comparing the EDD to the hardcopy laboratory data package. Sample results and laboratory quality control sample results were also verified (10%).

For the laboratory control spike duplicate (LCSD) sample, the percent recovery (%R) values for the spikes, surrogates, and internal standards in the "qc_spike_recovery" field of the EDD are incorrect. The LCSD %R values are a duplication of the LCS %R values. The correct LCSD %R values were added to the "approval_a" column of the EDD.

Results for Aroclor 1262 were reported as chlorobiphenyl in the EDD.

## TECHNICAL DATA VALIDATION

The QC requirements that were reviewed are listed in the following table

| | | | |
|---|---|---|---|
| ✓ | Sample Receipt, Preservation, and Holding Times | ✓ | Internal Standards |
| 2 | Initial Calibration (ICAL) | 1 | Field Duplicates |
| ✓ | Continuing Calibration (CCAL) | ✓ | Target Analyte List |
| ✓ | Laboratory Blanks | ✓ | Reporting Limits |
| 1 | Field Blanks | 2 | Compound Identification |
| ✓ | Surrogate Compounds | 2 | Reported Results |
| 1 | Matrix Spikes/Matrix Spike Duplicates (MS/MSD) | 1 | Calculation Verification |
| ✓ | Laboratory Control Samples (LCS/LCSD) | | |

**✓Stated method quality objectives (MQO) and QC criteria have been met. No outliers are noted or discussed.**
**1 Quality control outliers are discussed below, but no data were qualified.**
**2 Quality control outliers that impact the reported data were noted. Data qualifiers were issued as discussed below.**

### Initial Calibration

For the initial calibration verification (ICV) analyzed on 4/15/22 at 02:41, the percent recovery (%R) value for AR1260 was outside the control limit on both columns, indicating a potential high bias. The positive AR1260 result in Sample SIB-SW-WR198-050522 was estimated (J-SSVD).

### Field Blanks

No field blanks were submitted.

### Matrix Spike/Matrix Spike Duplicates

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Accuracy and precision were evaluated utilizing the laboratory control sample/laboratory control sample duplicate (LCS/LCSD).

### Field Duplicates

No field duplicates were submitted with this SDG.

### Compound Identification

With the noted exception, the second column confirmation relative percent difference (RPD) values were less than 40%.

For Sample SIB-SW-WR186-050522, the relative percent difference (RPD) value for Aroclor 1254 was greater than the control limit. This result was estimated (J-CF).

### Reported Results

For all samples, results from the primary and confirmation columns were reported in the EDD. Results from the primary column should be used; results from the confirmation column were qualified as do-not-report (DNR-EXC).

**Calculation Verification**

Calculation verifications were performed for this SDG. No calculation or transcription errors were found.

**OVERALL ASSESSMENT**

As determined by this evaluation, the laboratory followed the specified analytical method. Accuracy was acceptable as demonstrated by the surrogate and laboratory control sample percent recovery values and precision was acceptable as demonstrated by the LCS/LCSD RPD values.

Results were estimated due to calibration verification outliers and dual column confirmation precision outliers.

Results from the confirmation column were qualified as do-not-report (DNR). These results should not be used.

All other data, as qualified, are acceptable for use.

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# APPENDIX A

# DATA QUALIFIER DEFINITIONS AND REASON CODES

# DATA VALIDATION QUALIFIER CODES
## Based on National Functional Guidelines

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

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| | |
|---|---|
| U | The analyte was analyzed for, but was not detected above the reported sample quantitation limit. |
| J | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. |
| NJ | The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents the approximate concentration. |
| UJ | The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. |
| R | The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified. |

The following is an EcoChem qualifier that may also be assigned during the data review process:

| | |
|---|---|
| DNR | Do not report; a more appropriate result is reported from another analysis or dilution. |

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# ATTACHMENT E
# Data Qualification Reason Codes

| QC Element | Reason Code | Definition |
|---|---|---|
| Ambient Blank | ABH | Ambient blank result ≥ limit of quantitation (LOQ) |
| Ambient Blank | ABHB | Result is judged to be biased high based on associated ambient blank result |
| Ambient Blank | ABL | Ambient blank result <LOQ |
| Analyte Quantitation | ACR | Result above the upper end of the calibrated range |
| Analyte Quantitation | EXC | Result excluded; another data point for this analyte was selected for use (use with X-qualified results) |
| Analyte Quantitation | RTW | Target analyte outside retention time window |
| Analyte Quantitation | PSL | Solid matrix sample with percent solids less than 50% |
| Analyte Quantitation | PSLX | Solid matrix sample with percent solids less than 10% |
| Analyte Quantitation | TR | Result between the detection limit and LOQ |
| Calibration Blank | CBH | Initial or continuing calibration blank result ≥LOQ |
| Calibration Blank | CBHB | Result is judged to be biased high based on associated continuing calibration blank result |
| Calibration Blank | CBL | Initial or continuing calibration blank result <LOQ |
| Calibration Blank | CBN | Negative initial or continuing calibration blank result with absolute value <LOQ |
| Calibration Blank | CBNH | Negative initial or continuing calibration blank result with absolute value ≥LOQ |
| Continuing Calibration | CCCC | Calibration check compound did not meet percent difference (%D) criterion in continuing calibration standard |
| Continuing Calibration | CCVD | Continuing calibration standard did not meet %D criterion |
| Continuing Calibration | CRFL | Continuing calibration RRF below acceptance criterion |
| Continuing Calibration | CSPC | System performance check compound did not meet minimum RRF criterion in continuing calibration |
| Continuing Calibration | CVDX | Continuing calibration standard did not meet %D criterion, extreme discrepancy |
| Confirmation | CF | Confirmation precision exceeded acceptance criterion |
| Cyanide Method | DSH | High-level distillation standard did not meet %D criterion |
| Cyanide Method | DSL | Low-level distillation standard did not meet %D criterion |
| Equipment Blank | EBH | Equipment blank result ≥LOQ |
| Equipment Blank | EBHB | Result is judged to be biased high based on associated equipment blank result |
| Equipment Blank | EBL | Equipment blank result <LOQ |
| Field Duplicate | FDPA | Field duplicate results did not meet absolute difference criterion |
| Field Duplicate | FDPR | Field duplicate results did not meet RPD criterion |
| Holding Time | HTA | Analytical holding time exceeded |
| Holding Time | HTAX | Analytical holding time exceeded, extreme discrepancy |
| Holding Time | HTP | Preparation holding time exceeded |
| Holding Time | HTPX | Preparation holding time exceeded, extreme discrepancy |
| Initial Calibration | ICCC | Calibration check compound did not meet percent relative standard deviation (%RSD) criterion in initial calibration |

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## ATTACHMENT E (continued)
## Data Qualification Reason Codes

| QC Element | Reason Code | Definition |
|---|---|---|
| Initial Calibration | ICLS | Initial calibration low-level standard >LOQ |
| Initial Calibration | ICR2 | Initial calibration $r^2$ below acceptance criterion |
| Initial Calibration | ICRD | Initial calibration %RSD above acceptance criterion |
| Initial Calibration | ICRX | Initial calibration %RSD above acceptance criterion, extreme discrepancy |
| Initial Calibration | IRFL | Initial calibration RRF below acceptance criterion |
| Initial Calibration | ISPC | System performance check compound did not meet minimum mean RRF criterion in initial calibration |
| Initial Calibration | LQSH | LOQ check standard above acceptance criteria |
| Initial Calibration | LQSL | LOQ check standard below acceptance criteria |
| Initial Calibration | SSVD | Second-source standard did not meet %D criterion |
| Initial Calibration Verification | ICVD | Continuing calibration standard did not meet %D criterion |
| Initial Calibration Verification | ICVX | Continuing calibration standard did not meet %D criterion, extreme discrepancy |
| Interference Check Standard | ICAH | Non-spiked concentration above acceptance criterion in ICSA |
| Interference Check Standard | ICAN | Negative concentration with absolute value above acceptance criterion in ICSA |
| Interference Check Standard | ICHX | Non-spiked concentration above acceptance criterion in ICSA, extreme discrepancy |
| Interference Check Standard | ICNX | Negative concentration with absolute value above acceptance criterion in ICSA, extreme discrepancy |
| Interference Check Standard | ICSH | ICSA or ICSAB spiked analyte with high percent recovery (%R) |
| Interference Check Standard | ICSL | ICSA or ICSAB spiked analyte with low %R |
| Internal Standards | IRH | Internal standard peak area above upper limit |
| Internal Standards | IRL | Internal standard peak area below lower limit |
| Internal Standards | IRLX | Internal standard peak area below lower limit, extreme discrepancy |
| Internal Standards | ISRT | Internal standard retention time outside window |
| Labeled Standards | LSH | Labeled standard %R above acceptance criterion |
| Labeled Standards | LSL | Labeled standard %R below acceptance criterion |
| Labeled Standards | LSLX | Labeled standard %R below acceptance criterion, extreme discrepancy |
| Laboratory Control Sample | LCLX | LCS and/or LCSD %R below acceptance criterion, extreme discrepancy |
| Laboratory Control Sample | LCSH | LCS and/or LCSD %R above acceptance criterion |
| Laboratory Control Sample | LCSL | LCS and/or LCSD %R below acceptance criterion |
| Laboratory Control Sample | LCSP | LCS/LCSD RPD above acceptance criterion |
| Laboratory Duplicate | LDPA | Laboratory duplicate results did not meet absolute difference criterion |
| Laboratory Duplicate | LDPR | Laboratory duplicate results did not meet RPD criterion |

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| QC Element | Reason Code | Definition |
|---|---|---|
| Low-Level Calibration Check | LLCH | Low-level calibration check above the upper limit |
| Low-Level Calibration Check | LLCL | Low-level calibration check below the lower limit |
| Low-Level Calibration Check | LLXL | Low-level calibration check below the lower limit, extreme discrepancy |
| Method Blank | MBH | Method blank result ≥LOQ |
| Method Blank | MBHB | Result is judged to be biased high based on associated method blank result |
| Method Blank | MBL | Method blank result <LOQ |
| Matrix Spike | MSH | MS and/or MSD %R above acceptance criterion |
| Matrix Spike | MSL | MS and/or MSD %R below acceptance criterion |
| Matrix Spike | MSLX | MS and/or MSD %R below acceptance criterion, extreme discrepancy |
| Matrix Spike | MSP | MS/MSD RPD above acceptance criterion |
| Post-Digestion Spike | PDH | Post-digestion spike recovery high |
| Post-Digestion Spike | PDL | Post-digestion spike recovery low |
| Post-Digestion Spike | PDLX | Post-digestion spike recovery low, extreme discrepancy |
| Post-Digestion Spike | PDN | Post-digestion spike not performed or not applicable and serial dilution result not performed or not applicable |
| Sample Delivery and Condition | BUB | Bubbles >5 millimeters in volatile organic compounds vial |
| Sample Delivery and Condition | DAM | Sample container damaged |
| Sample Delivery and Condition | PRE | Sample not properly preserved |
| Sample Delivery and Condition | TEMP | Sample received at elevated temperature |
| Sample Delivery and Condition | TMPX | Sample received at elevated temperature, extreme discrepancy |
| Serial Dilution | SDIL | Serial dilution did not meet %D criterion |
| Serial Dilution | SDN | Serial dilution not performed |
| Surrogate | SSH | Surrogate %R high |
| Surrogate | SSL | Surrogate %R low |
| Surrogate | SSLX | Surrogate %R low, extreme discrepancy |
| Surrogate | SSN | Surrogate compound not spiked into sample |
| Trip Blank | TBH | Trip blank result ≥LOQ |
| Trip Blank | TBL | Trip blank result <LOQ |
| Validator Judgment | VJ | Validator judgment (see validation narrative) |

ICS = interference check sample
MS = matrix spike
MSD = matrix spike duplicate
QC = quality control
RPD = relative percent difference
RRF = relative response factor

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# APPENDIX B

# QUALIFIED DATA SUMMARY TABLE

# Qualified Data Summary Table
## Swan Island Basin

| SAMPLE ID | LAB ID | METHOD | ANALYTE | RESULT | UNITS | LAB FLAG | DV QUAL | DV REASON | No DV Qualification Required |
|---|---|---|---|---|---|---|---|---|---|
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | CHLOROBIPHENYL | | ug/L | U | | | ✓ |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | CHLOROBIPHENYL | | ug/L | U | DNR | EXC | |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1016 (AROCLOR 1016) | | ug/L | U | | | ✓ |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1016 (AROCLOR 1016) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1221 (AROCLOR 1221) | | ug/L | U | | | ✓ |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1221 (AROCLOR 1221) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1232 (AROCLOR 1232) | | ug/L | U | | | ✓ |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1232 (AROCLOR 1232) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1242 (AROCLOR 1242) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1242 (AROCLOR 1242) | | ug/L | U | | | ✓ |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1248 (AROCLOR 1248) | | ug/L | U | | | ✓ |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1248 (AROCLOR 1248) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1254 (AROCLOR 1254) | | ug/L | U | | | ✓ |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1254 (AROCLOR 1254) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1260 (AROCLOR 1260) | | ug/L | U | | | ✓ |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1260 (AROCLOR 1260) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1268 (AROCLOR 1268) | | ug/L | U | | | ✓ |
| SIB-SW-WR198-050522 | 22E0325-01 | SW8082A | PCB-1268 (AROCLOR 1268) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | CHLOROBIPHENYL | | ug/L | U | DNR | EXC | |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | CHLOROBIPHENYL | | ug/L | U | | | ✓ |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1016 (AROCLOR 1016) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1016 (AROCLOR 1016) | | ug/L | U | | | ✓ |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1221 (AROCLOR 1221) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1221 (AROCLOR 1221) | | ug/L | U | | | ✓ |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1232 (AROCLOR 1232) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1232 (AROCLOR 1232) | | ug/L | U | | | ✓ |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1242 (AROCLOR 1242) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1242 (AROCLOR 1242) | | ug/L | U | | | ✓ |

# Qualified Data Summary Table
## Swan Island Basin

| SAMPLE ID | LAB ID | METHOD | ANALYTE | RESULT | UNITS | LAB FLAG | DV QUAL | DV REASON | No DV Qualification Required |
|---|---|---|---|---|---|---|---|---|---|
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1248 (AROCLOR 1248) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1248 (AROCLOR 1248) | | ug/L | U | | | ✓ |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1254 (AROCLOR 1254) | 0.005 | ug/L | J | J | CF | |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1254 (AROCLOR 1254) | 0.003 | ug/L | J | DNR | EXC | |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1260 (AROCLOR 1260) | | ug/L | U | | | ✓ |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1260 (AROCLOR 1260) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1268 (AROCLOR 1268) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR186-050522 | 22E0325-02 | SW8082A | PCB-1268 (AROCLOR 1268) | | ug/L | U | | | ✓ |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | CHLOROBIPHENYL | | ug/L | U | | | ✓ |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | CHLOROBIPHENYL | | ug/L | U | DNR | EXC | |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1016 (AROCLOR 1016) | | ug/L | U | | | ✓ |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1016 (AROCLOR 1016) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1221 (AROCLOR 1221) | | ug/L | U | | | ✓ |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1221 (AROCLOR 1221) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1232 (AROCLOR 1232) | | ug/L | U | | | ✓ |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1232 (AROCLOR 1232) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1242 (AROCLOR 1242) | | ug/L | U | | | ✓ |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1242 (AROCLOR 1242) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1248 (AROCLOR 1248) | | ug/L | U | | | ✓ |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1248 (AROCLOR 1248) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1254 (AROCLOR 1254) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1254 (AROCLOR 1254) | | ug/L | U | | | ✓ |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1260 (AROCLOR 1260) | 0.013 | ug/L | | DNR | EXC | |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1260 (AROCLOR 1260) | 0.014 | ug/L | | J | SSVD | |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1268 (AROCLOR 1268) | | ug/L | U | | | ✓ |
| SIB-SW-WR15-050522 | 22E0325-03 | SW8082A | PCB-1268 (AROCLOR 1268) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | CHLOROBIPHENYL | | ug/L | U | | | ✓ |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | CHLOROBIPHENYL | | ug/L | U | DNR | EXC | |

# Qualified Data Summary Table
## Swan Island Basin

| SAMPLE ID | LAB ID | METHOD | ANALYTE | RESULT | UNITS | LAB FLAG | DV QUAL | DV REASON | No DV Qualification Required |
|---|---|---|---|---|---|---|---|---|---|
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1016 (AROCLOR 1016) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1016 (AROCLOR 1016) | | ug/L | U | | | ✓ |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1221 (AROCLOR 1221) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1221 (AROCLOR 1221) | | ug/L | U | | | ✓ |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1232 (AROCLOR 1232) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1232 (AROCLOR 1232) | | ug/L | U | | | ✓ |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1242 (AROCLOR 1242) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1242 (AROCLOR 1242) | | ug/L | U | | | ✓ |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1248 (AROCLOR 1248) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1248 (AROCLOR 1248) | | ug/L | U | | | ✓ |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1254 (AROCLOR 1254) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1254 (AROCLOR 1254) | | ug/L | U | | | ✓ |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1260 (AROCLOR 1260) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1260 (AROCLOR 1260) | | ug/L | U | | | ✓ |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1268 (AROCLOR 1268) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR428-050522 | 22E0325-04 | SW8082A | PCB-1268 (AROCLOR 1268) | | ug/L | U | | | ✓ |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | CHLOROBIPHENYL | | ug/L | U | DNR | EXC | |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | CHLOROBIPHENYL | | ug/L | U | | | ✓ |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1016 (AROCLOR 1016) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1016 (AROCLOR 1016) | | ug/L | U | | | ✓ |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1221 (AROCLOR 1221) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1221 (AROCLOR 1221) | | ug/L | U | | | ✓ |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1232 (AROCLOR 1232) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1232 (AROCLOR 1232) | | ug/L | U | | | ✓ |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1242 (AROCLOR 1242) | | ug/L | U | | | ✓ |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1242 (AROCLOR 1242) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1248 (AROCLOR 1248) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1248 (AROCLOR 1248) | | ug/L | U | | | ✓ |

# Qualified Data Summary Table
## Swan Island Basin

| SAMPLE ID | LAB ID | METHOD | ANALYTE | RESULT | UNITS | LAB FLAG | DV QUAL | DV REASON | No DV Qualification Required |
|---|---|---|---|---|---|---|---|---|---|
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1254 (AROCLOR 1254) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1254 (AROCLOR 1254) | | ug/L | U | | | ✓ |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1260 (AROCLOR 1260) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1260 (AROCLOR 1260) | | ug/L | U | | | ✓ |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1268 (AROCLOR 1268) | | ug/L | U | DNR | EXC | |
| SIB-SW-WR71-050522 | 22E0325-05 | SW8082A | PCB-1268 (AROCLOR 1268) | | ug/L | U | | | ✓ |