

Data Validation Report

Project: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling
 Portland Harbor Superfund Site
 Surface Sediment – Downtown/Upriver Reaches

Laboratory: ALS Environmental, Kelso, WA

Laboratory Group: K1806650-OXY

Analysis/Method: Oxychlorane

Validation Level: Stage 2A

AECOM Project

Number: 60566335 Task #2.12

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Completed on: March 11, 2019

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File Name: K1806650-OXY DVR

SUMMARY

The data quality review of one rinsate blank collected on July 13, 2018, has been completed. The sample was analyzed for oxychlorane by EPA Method 1699-modified (GC/MS/MS). The analysis was performed in general accordance with the method specified in EPA's *Test Methods for Evaluating Solid Waste (SW-846), Method 1699: Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS*, December 2007, (modified by ALS SOP SVM-PESTMS2). The laboratory provided level 2 and level 4 data packages containing sample results and associated quality assurance (QA) and quality control (QC) data, preparation logs, and raw instrument outputs (where applicable). Results for other chlorinated pesticides were provided previously and reviewed separately. The following sample was associated with laboratory group K1806650-OXY:

Sample ID	Laboratory ID
PDI-RB-VV-20180713 (rinsate blank)	K1806650-001

Data validation is based on method performance criteria and QC criteria documented in the *Quality Assurance Project Plan (QAPP)*, dated March 23, 2018, as amended. If data qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA document *USEPA National Functional Guidelines for Organic Superfund Methods Data Review*, January 2017. Data qualifiers assigned to results reported in this sample set are included in Table 1.

SAMPLE RECEIPT

Upon receipt by ALS, the sample jar information was compared to the chain-of-custody (COC) and the cooler temperature was recorded. No discrepancies related to sample identification were noted by ALS and the cooler was received at a temperature within the EPA-recommended limits of greater than 0°C and less than or equal to 6°C.

ORGANIC ANALYSIS

The sample was analyzed for oxychlorane by EPA Method 1699-modified.

1. Holding Times – Acceptable
2. Initial and Continuing Calibration Verifications – Acceptable
3. Blanks – Acceptable



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4. Surrogates – Acceptable
5. Internal Standards – Acceptable
6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) – Acceptable
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD was not performed in association with this rinsate blank sample. Precision and accuracy were assessed using the LCS/LCSD results.

8. Reporting Limits – Acceptable

OVERALL ASSESSMENT OF DATA

The data reported in this laboratory group is considered usable for meeting project objectives. The completeness for laboratory group K1806650-OXY is 100%.

Table 1
QA/QC Data Summary Review
Portland Harbor
Surface Sediment - Downtown/Upriver Reaches
ALS Kelso Laboratory Group: K1806650-OXY

Sample ID	Laboratory ID	Method	Analyte	Laboratory Result	Units	Final Result	Reason Code
No data qualifiers were assigned to the oxychlordanes result reported in K1806650-OXY based on this data validation.							