

# Data Validation Report

Project: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling  
 Portland Harbor Superfund Site  
 Surface Water – August 2018

Laboratory: Analytical Resources, Incorporated, Tukwila, WA

Laboratory Group: 18H0422

Analyses: Pentachlorophenol (PCP)

Validation Level: Stage 2A

AECOM Project

Number: 60566335, Task #2.12

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Completed on: January 2, 2019

Reviewed by: Amy Dahl/AECOM

File Name: 18H0422 DVR

## SUMMARY

The data quality review of three surface water samples collected on August 24 and August 25, 2018, has been completed. Samples were analyzed for PCP by United States Environmental Protection Agency (EPA) Method 8041A by Analytical Resources, Incorporated (ARI) located in Tukwila, Washington. The analysis was performed in general accordance with the method specified in EPA's *Test Methods for Evaluating Solid Waste (SW-846)*. 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). The following samples are associated with laboratory group 18H0422:

Sample ID	Laboratory ID
PDI-WS-T02-1808	18H0422-01
PDI-WS-T06-1808	18H0422-02
PDI-WS-T01-1808	18H0422-03

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 this sample set are included in Table 1.

## SAMPLE RECEIPT

Upon receipt by ARI, 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 ARI, 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. Samples were transferred to ARI by TestAmerica, Incorporated at the request of AECOM and received on August 30, 2018.

## ORGANIC ANALYSIS

Samples were analyzed for PCP by EPA Method 8041A.

1. Holding Times – Acceptable



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2. Blanks – Acceptable

One rinsate blank was reported with laboratory group 18H0420 (discussed under separate cover) and is applicable to the samples reported with this laboratory group. PCP was not detected in this rinsate blank.

3. Surrogate – Acceptable

4. Laboratory Control Sample (LCS) – Acceptable

5. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

An MS/MSD was not performed using a sample reported in this laboratory group. Accuracy was assessed using the LCS. Precision was not assessed.

6. 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 18H0422 is 100%.

**Table 1**  
**QA/QC Data Summary Review**  
**Portland Harbor**  
**Surface Water - August 2018**  
**Analytical Resources, Incorporated Laboratory Group: 18H0422**

Sample ID	Laboratory ID	Method	Analyte	Laboratory Result	Units	Final Result	Reason Code
No data qualifiers were assigned to results reported in 18H0422 based on this data validation.							