

17 September 2018

Karen Mixon AECOM 1111 Third Avenue, Suite 1600 Seattle, WA 98101

RE: Portland Harbor Pre-Remedial Design

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)

18H0421

Associated SDG ID(s)

N/A

110121

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclose Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in it entirety.

Cert# 100006

PJLA Testing
Accreditation # 66169

TestAmerica Seattle

5755 8th Street East Tacoma, WA 98424

Chain of Custody Record





THE LEADER IN ENVIRONMENTAL TESTING

| Phone (253) 922-2310 Fax (253) 922-5047 | | | | | | | | | | | | | | THE LEADER IN E | NVIRONMENTAL TESTING |
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| Client Information (Sub Contract Lab) | Sampler: | | | | | , Elaine M | | | | king No(s): | | COC No: 580-58768.1 | | | |
| Client Contact: Shipping/Receiving | Phone: | | | E-Mail: elaine | e.wal | lker@ |)testame | ericaino | c.com | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | State of Orig Oregon | jin: | | Page: Page 1 of 1 | |
| Company: Analytical Resources, Inc | | | | Α | Accreditations Required (See note): Job #: 580-79862-1 | | | | | | | | | | |
| Address: 4611 South 134th Place, Suite 100, | Due Date Requested: 9/12/2018 | | | | | | | А | nalysis | s Requ | uested | | | Preservation Co | des: M - Hexane |
| City: Tukwila State, Zip: | TAT Requested (da | ys): | | | | | | | | | | | | B - NaOH C - Zn Acetate D - Nitric Acid | N - None O - AsNaO2 P - Na2O4S |
| WA, 98168 Phone: 206-695-6200(Tel) | PO #: | | | | | 11A | | | | | | | | E - NaHSO4 F - MeOH G - Amchlor | Q - Na2SO3 R - Na2S2O3 S - H2SO4 |
| Email: | WO#: ART! | 184 04 | 121 | | or No | No)/ 8041A | | | | | | | ø | H - Ascorbic Acid I - Ice J - DI Water | T - TSP Dodecahydrate U - Acetone V - MCAA |
| Project Name: Portland Harbor Pre-Remedial Design | Project #: 58012120 | 012120 | | | ple (Yes | oropher | | | | | | | containers | K - EDTA L - EDA | W - pH 4-5 Z - other (specify) |
| Site: | SSOW#: | | | | Samp | ntachi | anoi | | | | | | 5 | Other: | |
| Sample Identification - Client ID | Sample Date | Sample Time | Type (w= (C=comp, o=wa G=grab) BT=Tiss | The second secon | Field Filtered | SUB (8041A Pentachlorophenol)/ | Pentacnioropin | | | | | | Total Number | Special Ir | nstructions/Note: |
| And the Bands of the same of t | \rightarrow | > < | Preservation C | code: | $\langle \rangle$ | | | | | | | | IX | | |
| PDI-WS-T03-1808 | 8/22/18 | 17:55 Pacific | W | /ater | | X | | | | | | | 1 | | |
| PDI-WS-T04-1808 | 8/23/18 | 10:20 Pacific | W | /ater | | Х | | | | | | | 1 | | |
| PDI-WS-T04-1808-D | 8/23/18 | 10:20 Pacific | W | /ater | | X | | | | | | | 1 | | |
| PDI-WS-T07-1808 | 8/23/18 | 18:20 Pacific | W | ater / | | х | | | | | | | 1 | | |
| PDI-WS-T07-1808 | 8/23/18 | 18:20 Pacific | MS Wa | ater / | | × | | | | | | | 1 | | |
| PDI-WS-T07-1808 | 8/23/18 | 18:20 Pacific | MSD Wa | ater / | | х | | | | | | | 1 | | |
| | | | | | 1 | | 1 | | | $\perp \downarrow$ | | | | | |
| | | | | | 1 | | | | | | | | | | |
| Note: Since laboratory accreditations are subject to change, TestAmerica Laborato currently maintain accreditation in the State of Origin listed above for analysis/tests Laboratories, Inc. attention immediately. If all requested accreditations are current | s/matrix being analyze | ed, the samples | es must be shipped ba | ack to the T | TestAr licanc | merica ce to Te | a laborator estAmerica | ry or othe a Labora | er instruction atories, Inc. | ns will be | provided. | Any changes | to accreditation | on status should be b | orought to TestAmerica |
| Possible Hazard Identification | | | | | S | | 0.000 | | - | | | (80) | | ed longer than 1 | |
| Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) | Primary Delivera | able Rank: 2 | 2 | | S | | Return 7 Il Instruc | | nt QC Requir | | <i>sposal By</i> s: | Lab | Arch | nive For | Months |
| Empty Kit Relinquished by: | | Date: | | Ţ | Time |) : | | | | | Metho | d of Shipmen | nt: | | |
| Relinguished by: | Date/Time: 8/30/18 | 1500 | Compa T/ | Company TASEN | | | tenvel by: | | i | FISTER B- | | | -30-18 ISOL | | Company ARI |
| Relinquished by: | Date/Time: | | Compa | | | | ceived by: | | | | Date/Time: | | | to the second se | Company |
| Relinquished by: | Date/Time: | | Compa | any | | Rec | ceived by: | | | | | Date/Tir | me: | | Company |
| Custody Seals Intact: Custody Seal No.: N C | | | | | | Coo | ler Tempe | erature(s) |) °C and Otl | her Rema | arks: | 3.5 | | | |



AECOM Project: Portland Harbor Pre-Remedial Design

1111 Third Avenue, Suite 1600Project Number: 58012120Reported:Seattle WA, 98101Project Manager: Karen Mixon17-Sep-2018 11:52

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------------|---------------|--------|-------------------|-------------------|
| PDI-WS-T03-1808 | 18H0421-01 | Water | 22-Aug-2018 17:55 | 30-Aug-2018 15:01 |
| PDI-WS-T04-1808 | 18H0421-02 | Water | 23-Aug-2018 10:20 | 30-Aug-2018 15:01 |
| PDI-WS-T04-1808-D | 18H0421-03 | Water | 23-Aug-2018 10:20 | 30-Aug-2018 15:01 |
| PDI-WS-T07-1808 | 18H0421-04 | Water | 23-Aug-2018 18:20 | 30-Aug-2018 15:01 |

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Seattle WA, 98101 Project Manager: Karen Mixon 17-Sep-2018 11:52

Case Narrative

Sample receipt

Samples as listed on the preceding page were received August 30, 2018 under ARI work order 18H0421. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Pentachlorophenol - EPA Method SW8041A

Sample PDI-WS-T03-1808 was received outside of the 7 day recommended holding time and has been flagged with an "H" qualifier.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits.

The LCS percent recoveries were within control limits.

A matrix spike and matrix spike duplicate were prepared in conjunction with sample PDI-WS-T07-1808. The matrix spike duplicate has high spike recovery. The source sample was non-detect. The results are advisory. No corrective action was taken.



Cooler Receipt Form

| ARI Client: 1027 averica | Project Name: PO(+1a | nd horbor |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| COC No(s): | Delivered by: Fed-Ex UPS Cour | |
| Assigned ARI Job No: 1840 421 | Tracking No: | (NA) |
| Preliminary Examination Phase: | | |
| Were intact, properly signed and dated custody seals attached to | the outside of to cooler? | YES NO |
| Were custody papers included with the cooler? | | YES NO |
| Were custody papers properly filled out (ink, signed, etc.) | | YES> NO |
| Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for cher Time: | recent to the second se | |
| If cooler temperature is out of compliance fill out form 00070F | 0220 | Temp Gun ID#: LXXX565 |
| Cooler Accepted by: | Date: 0-50-10 Time | :_ 1501 |
| Complete custody forms | and attach all shipping documents | |
| Log-In Phase: | | |
| Was a temperature blank included in the cooler? | | YES) NO |
| What kind of packing material was used? Bubble Wran | | |
| Was sufficient ice used (if appropriate)? | 3750 | NA (YES) NO |
| Were all bottles sealed in individual plastic bags? | | YES (NO) |
| Did all bottles arrive in good condition (unbroken)? | | YES NO |
| Were all bottle labels complete and legible? | | YES NO |
| Did the number of containers listed on COC match with the numb | | YES NO |
| Did all bottle labels and tags agree with custody papers? | *************************************** | YES NO |
| Were all bottles used correct for the requested analyses? | | YES NO |
| Do any of the analyses (bottles) require preservation? (attach pre | eservation sheet, excluding VOCs) | NA YES NO |
| Were all VOC vials free of air bubbles? | | (NA) YES NO |
| Was sufficient amount of sample sent in each bottle? | | YES NO |
| Date VOC Trip Blank was made at ARI | | Ná |
| Was Sample Split by ARI : (NA) YES Date/Time: | Equipment: | Split by: |
| Samples Logged by:Date | :: <u>\$130/18</u> Time: _ | 1524 |
| ** Notify Project Manage | er of discrepancies or concerns ** | |
| Sample ID on Bottle Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
| | · | |
| | | |
| | | |
| | | |
| Additional Notes, Discrepancies, & Resolutions: | 7778 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | |
| | | |
| | | |
| Don't see | | |
| By: Date: | Small A "sm" (< 2 mm) | |
| Small Air Bubbles Peabubbles LARGE Air Bubbles >4 mm | Small \rightarrow "sm" (<2 mm) Peabubbles \rightarrow "pb" (2 to <4 mm) | |
| | Large > "lg" (4 to < 6 mm) | |
| | Headspace → "hs" (>6 mm) | |
| | ricauspace 7 ns (>0 mm) | |

0016F 3/2/10 Cooler Receipt Form

Revision 014



AECOM Project: Portland Harbor Pre-Remedial Design

Project Number: 58012120 1111 Third Avenue, Suite 1600 Reported: Seattle WA, 98101 Project Manager: Karen Mixon 17-Sep-2018 11:52

> PDI-WS-T03-1808 18H0421-01 (Water)

Phenols

Method: EPA 8041A Sampled: 08/22/2018 17:55

Instrument: ECD8 Analyst: YZ Analyzed: 12-Sep-2018 16:27

Sample Preparation: Preparation Method: EPA 3510C SepF

Preparation Batch: BGH0819

Sample Size: 500 mL Final Volume: 5 mL Prepared: 30-Aug-2018

| Analyte | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|--------------------------------------|------------|----------|--------------------|--------------------|--------|-------|-------|
| Pentachlorophenol | 87-86-5 | 1 | 0.014 | 0.025 | ND | ug/L | H, U |
| Surrogate: 2,4,6-Tribromophenol | | | | 10-181 % | 89.9 | % | Н |
| Surrogate: 2,4,6-Tribromophenol [2C] | | | | 10-181 % | 71.7 | % | Н |

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Project Number: 58012120 1111 Third Avenue, Suite 1600 Reported: Seattle WA, 98101 Project Manager: Karen Mixon 17-Sep-2018 11:52

> PDI-WS-T04-1808 18H0421-02 (Water)

Phenols

Method: EPA 8041A Sampled: 08/23/2018 10:20

Instrument: ECD8 Analyst: YZ Analyzed: 12-Sep-2018 16:45

Sample Preparation: Preparation Method: EPA 3510C SepF

Preparation Batch: BGH0819

Sample Size: 500 mL Final Volume: 5 mL Prepared: 30-Aug-2018

| Analyte | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|--------------------------------------|------------|----------|--------------------|--------------------|--------|-------|-------|
| Pentachlorophenol | 87-86-5 | 1 | 0.014 | 0.025 | ND | ug/L | U |
| Surrogate: 2,4,6-Tribromophenol | | | | 10-181 % | 96.7 | % | |
| Surrogate: 2,4,6-Tribromophenol [2C] | | | | 10-181 % | 69.4 | % | |



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1111 Third Avenue, Suite 1600 Project Number: 58012120 Reported: Seattle WA, 98101 Project Manager: Karen Mixon 17-Sep-2018 11:52

PDI-WS-T04-1808-D 18H0421-03 (Water)

Phenols

Method: EPA 8041A Sampled: 08/23/2018 10:20

Instrument: ECD8 Analyst: YZ Analyzed: 12-Sep-2018 17:03

Sample Preparation: Preparation Method: EPA 3510C SepF

Preparation Batch: BGH0819

Sample Size: 500 mL Prepared: 30-Aug-2018 Final Volume: 5 mL

Detection Reporting CAS Number Dilution Limit Limit Analyte Result Units Notes Pentachlorophenol 87-86-5 1 0.014 0.025 ND ug/L U Surrogate: 2,4,6-Tribromophenol 10-181 % 93.9 % Surrogate: 2,4,6-Tribromophenol [2C] 10-181 % % 65.9

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> PDI-WS-T07-1808 18H0421-04 (Water)

Phenols

Method: EPA 8041A Sampled: 08/23/2018 18:20

Instrument: ECD8 Analyst: YZ Analyzed: 12-Sep-2018 17:21

Sample Preparation: Preparation Method: EPA 3510C SepF

Preparation Batch: BGH0819

Sample Size: 500 mL Final Volume: 5 mL Prepared: 30-Aug-2018

| Analyte | CAS Number | Dilution | Detection Limit | Reporting Limit | Result | Units | Notes |
|--------------------------------------|------------|----------|--------------------|--------------------|--------|-------|-------|
| Pentachlorophenol | 87-86-5 | 1 | 0.014 | 0.025 | ND | ug/L | U |
| Surrogate: 2,4,6-Tribromophenol | | | | 10-181 % | 81.9 | % | |
| Surrogate: 2,4,6-Tribromophenol [2C] | | | | 10-181 % | 61.6 | % | |

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Phenols - Quality Control

Batch BGH0819 - EPA 3510C SepF

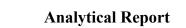
Instrument: ECD8 Analyst: YZ

| | | Detection | Reporting | | Spike | Source | | %REC | | RPD | |
|-------------------------------------------------|---------------|--------------|-----------|-------|--------------|-----------|-------------|------------|-------|-------|-------|
| QC Sample/Analyte | Result | Limit | Limit | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |
| Blank (BGH0819-BLK1) | | | | Prepa | ared: 30-Auş | g-2018 An | alyzed: 12- | Sep-2018 1 | 5:15 | | |
| Pentachlorophenol | ND | 0.014 | 0.025 | ug/L | | | | | | | U |
| Surrogate: 2,4,6-Tribromophenol | 0.191 | | | ug/L | 0.250 | | 76.5 | 10-181 | | | |
| Surrogate: 2,4,6-Tribromophenol [2C] | 0.170 | | | ug/L | 0.250 | | 68.0 | 10-181 | | | |
| LCS (BGH0819-BS1) | | | | Prepa | ared: 30-Au | g-2018 An | alyzed: 12- | Sep-2018 1 | 5:33 | | |
| Pentachlorophenol | 0.181 | 0.014 | 0.025 | ug/L | 0.250 | | 72.4 | 36-159 | | | |
| Surrogate: 2,4,6-Tribromophenol | 0.208 | | | ug/L | 0.250 | | 83.3 | 10-181 | | | |
| Surrogate: 2,4,6-Tribromophenol [2C] | 0.183 | | | ug/L | 0.250 | | 73.4 | 10-181 | | | |
| Matrix Spike (BGH0819-MS1) | So | ource: 18H | 10421-04 | Prepa | ared: 30-Au | g-2018 An | alyzed: 12- | Sep-2018 1 | 7:38 | | |
| Pentachlorophenol | 0.388 | 0.014 | 0.025 | ug/L | 0.250 | ND | 155 | 36-159 | | | P1 |
| Surrogate: 2,4,6-Tribromophenol | 0.210 | | | ug/L | 0.250 | | 84.0 | 10-181 | | | |
| Surrogate: 2,4,6-Tribromophenol [2C] | 0.160 | | | ug/L | 0.250 | | 64.1 | 10-181 | | | |
| Recovery limits for target analytes in MS/MSD Q | C samples are | advisory onl | y. | | | | | | | | |
| Matrix Spike Dup (BGH0819-MSD1) | So | ource: 18H | 10421-04 | Prepa | ared: 30-Aug | g-2018 An | alyzed: 12- | Sep-2018 1 | 7:56 | | |
| Pentachlorophenol | 0.443 | 0.014 | 0.025 | ug/L | 0.250 | ND | 177 | 36-159 | 13.30 | 30 | *, P1 |
| Surrogate: 2,4,6-Tribromophenol | 0.230 | | | ug/L | 0.250 | | 91.9 | 10-181 | | | |
| Surrogate: 2,4,6-Tribromophenol [2C] | 0.176 | | | ug/L | 0.250 | | 70.5 | 10-181 | | | |

Recovery limits for target analytes in MS/MSD QC samples are advisory only.

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Certified Analyses included in this Report

Analyte Certifications

| Code | Description | Number | Expires |
|----------|----------------------------------------------------|--------------|------------|
| ADEC | Alaska Dept of Environmental Conservation | 17-015 | 02/07/2019 |
| CALAP | California Department of Public Health CAELAP | 2748 | 06/30/2019 |
| DoD-ELAP | DoD-Environmental Laboratory Accreditation Program | 66169 | 02/07/2019 |
| NELAP | ORELAP - Oregon Laboratory Accreditation Program | WA100006-011 | 05/12/2019 |
| WADOE | WA Dept of Ecology | C558 | 06/30/2019 |
| WA-DW | Ecology - Drinking Water | C558 | 06/30/2019 |

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Notes and Definitions

* Flagged value is not within established control limits.

H Hold time violation - Hold time was exceeded.

P1 The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.

U This analyte is not detected above the applicable reporting or detection limit.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

[2C] Indicates this result was quantified on the second column on a dual column analysis.