

# Technical Memorandum

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**TO:** Steve Teal, Washington State Department of Ecology  
**CC:** Amy Sikora, Washington State Department of Natural Resources  
**FROM:** Katie Gauglitz, LG  
**DATE:** July 29, 2022  
**RE:** **Second Quarter 2022 Groundwater Monitoring Results  
Webster Nursery Site, Site Identification 3380  
Tumwater, Washington  
Project No. 0774006.040.047**

## Introduction

This technical memorandum summarizes the results of quarterly groundwater monitoring completed by Landau Associates, Inc. (Landau) at the Washington State Department of Natural Resources Webster Nursery site, a former pesticide-storage warehouse in Tumwater, Washington (Site; Figure 1). The Site is associated with past releases of organochlorine pesticides to soil and groundwater. Constituents of concern include the organochlorine pesticides heptachlor epoxide (HE; breakdown product of heptachlor) and chlordanes.

Remedial action excavation and disposal of HE-contaminated soil was completed in August 2018. A summary of the remedial action is provided in a Cleanup Action Completion Report (Landau 2020).

## Groundwater Monitoring

Second quarter 2022 (2Q22) groundwater monitoring was completed on May 24, 2022 in accordance with the framework established by Washington State Department of Ecology (Ecology) Agreed Order Number DE 00TCP-SR295, the Remedial Action Work Plan (Landau 2017), and the Compliance Monitoring Plan (Landau 2019).

Groundwater samples were collected from two wells (SW-10R and SW-11R; Figure 2) using a peristaltic pump and dedicated tubing following low-flow groundwater sampling procedures. Low-flow groundwater monitoring consists of measuring the depth-to-water with an electronic groundwater level indicator, monitoring field parameters with a YSI Professional Plus multi-parameter instrument, and measuring turbidity with a handheld meter. One duplicate sample (SW-99 at SW-11R) was collected for quality control purposes. Analytical Resources, Inc. of Tukwila, Washington analyzed the groundwater samples for organochlorine pesticides using U.S. Environmental Protection Agency Method 8081B low-level.

## Groundwater Monitoring Results

Groundwater monitoring results are summarized below:

- HE was detected in the duplicate sample of SW-11R (i.e., SW-99) at a concentration of 0.001 micrograms per liter ( $\mu\text{g/L}$ ), which is below the cleanup level (CUL; 0.0048  $\mu\text{g/L}$ ). HE was not detected above the laboratory reporting limit in the parent sample (the laboratory reporting limit for HE at SW-11R was 0.002  $\mu\text{g/L}$  in 2Q22).
- No other analytes were detected in either well during 2Q22 groundwater monitoring.

May 2022 organochlorine pesticide data are provided in Table 1, and the laboratory data package is provided in Attachment 1. Time series data of recent HE concentrations in groundwater at SW-10R and SW-11R (dating back to January 2010) are presented on Figure 3. A review of historical trends indicates HE concentrations are lower during the wet season (HE was also not detected above the laboratory reporting limit in SW-10R and SW-11R in February 2022). Concentrations of HE are expected to rebound slightly during the upcoming dry season, however overall concentrations of HE appear to be decreasing over time.

Groundwater elevations at SW-10R and SW-11R were 187.76 and 187.47 feet mean sea level, respectively. This represents an approximate 0.5-foot decrease from the previous monitoring event, completed in February 2022. Depth-to-water and groundwater elevation data are provided in Table 2 and SW-10R groundwater elevation data collected since the remedial action is shown on Figure 3. Figure 3 indicates that the groundwater elevation measured during May 2022 was relatively high compared to that time in previous years, and very similar to February 2022, based on historical trends.

## **Environmental Information Management Submittal**

An Environmental Information Management (EIM) submittal is required. The 2Q22 submittal was completed on July 8, 2022, and confirmation that the results have been uploaded to the EIM database is pending.

## **Conclusions and Next Steps**

Landau will continue to conduct quarterly monitoring through May 2023. The next monitoring event is scheduled for August 2022.

## **Use of this Report**

This technical memorandum has been prepared for the exclusive use of Washington State Department of Natural Resources and Washington State Department of Ecology for specific application to the Webster Nursery site. No other party is entitled to rely on the information, conclusions, and recommendations included in this document without the express written consent of Landau Associates. Further, the reuse of information, conclusions, and recommendations provided herein for extensions of the project or for any other project, without review and authorization by Landau Associates, shall be at the user's sole risk. Landau Associates warrants that within the

limitations of scope, schedule, and budget, our services have been provided in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. Landau Associates makes no other warranty, either express or implied.

This document has been prepared under the supervision and direction of the following key staff.

LANDAU ASSOCIATES, INC.



Katie Gauglitz, LG  
Senior Project Geologist

SMR/KMG/SMM/kjg

[\\TACOMA3\PROJECT\774\006 WEBSTER\R\QUARTERLY GW MONITORING REPORTS\2022\_05\_2Q22\LAI\_WEBSTER NURSERY 2Q22 GW MONITORING\_TM\_07-29-22.DOCX]

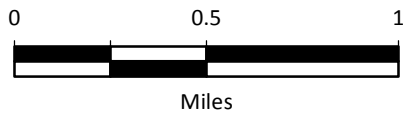
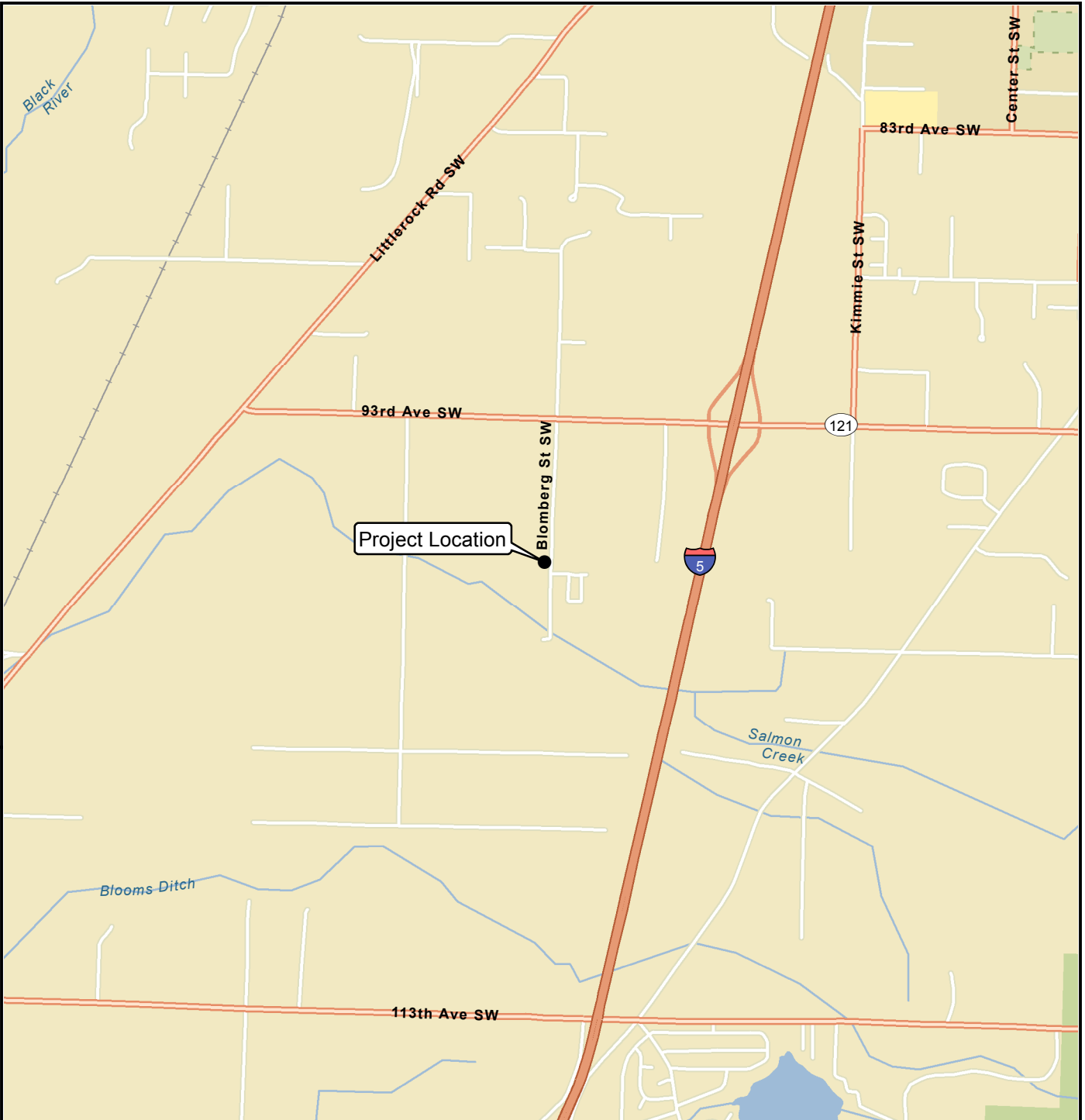
## References

- Landau. 2017. Remedial Action Work Plan, Webster Nursery, 9805 Blomberg Street SW, Tumwater, Washington. Landau Associates, Inc. October 31.
- Landau. 2019. Compliance Monitoring Plan, Washington State Department of Natural Resources Webster Nursery, Tumwater, Washington. Landau Associates, Inc. July 24.
- Landau. 2020. Final: Cleanup Action Completion Report, Washington State Department of Natural Resources Webster Nursery, Tumwater, Washington. Landau Associates, Inc. May 29.

## Attachments

- Figure 1 Vicinity Map
- Figure 2 Monitoring Well Network
- Figure 3 Heptachlor Epoxide and Groundwater Elevation Time Series SW-10(R) and SW-11(R)
- Table 1 Groundwater Analytical Results
- Table 2 Groundwater Level Measurements
- Attachment 1 May 2022 Laboratory Data Packages

G:\Projects\774\006\020\026\FIS\F01\_VicinityMap.mxd 5/16/2016 NAD 1983 StatePlane Washington North FIPS 4601 Feet



Data Source: Esri 2012

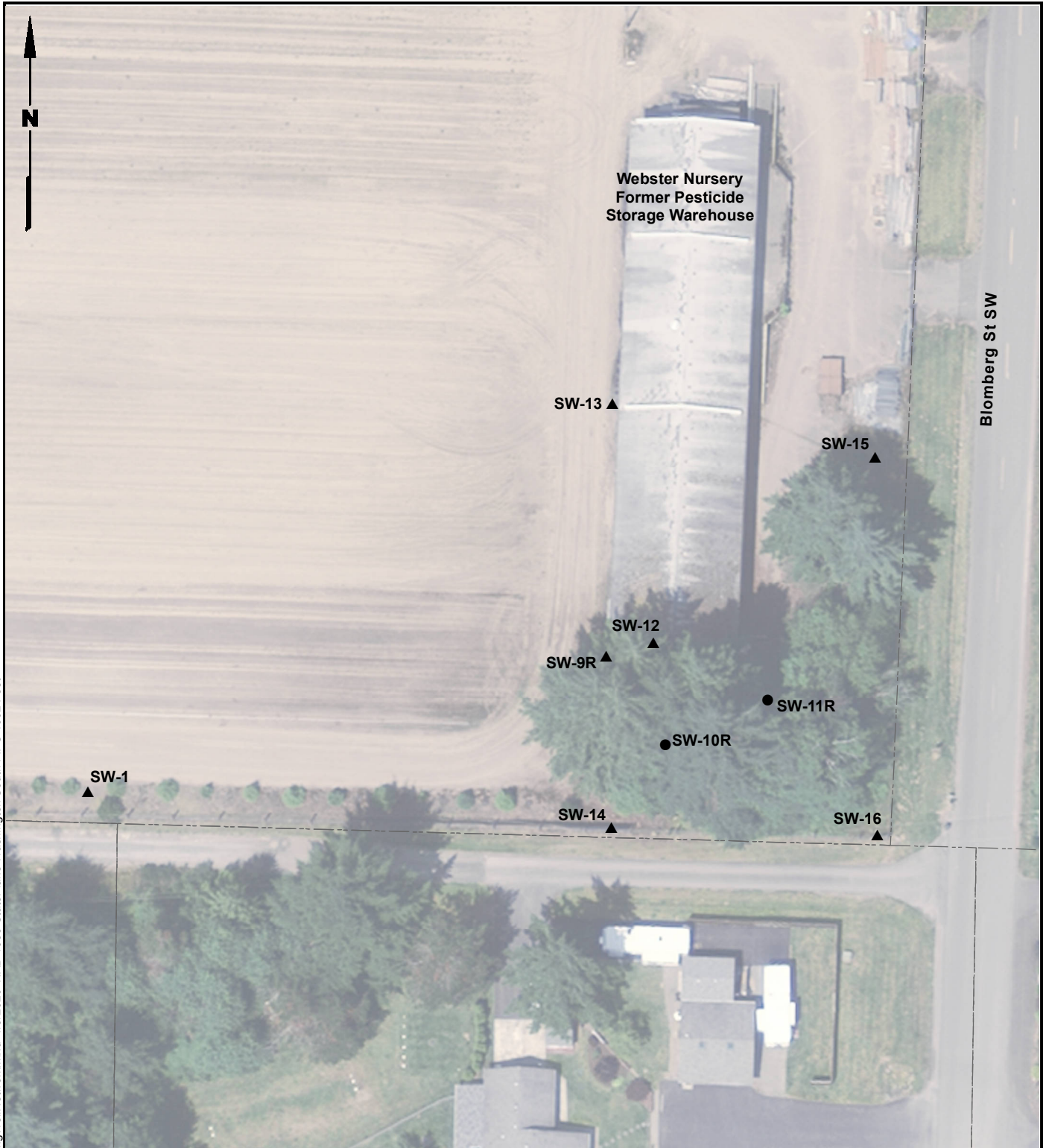


Webster Nursery Site  
Tumwater, Washington

Vicinity Map

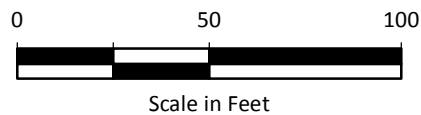
Figure  
**1**

G:\Projects\7741006\0401\045\F02MonitoringWellNetwork.mxd 1/9/2020 NAD 1983 StatePlane Washington South FIPS 4602 Feet



**Legend**

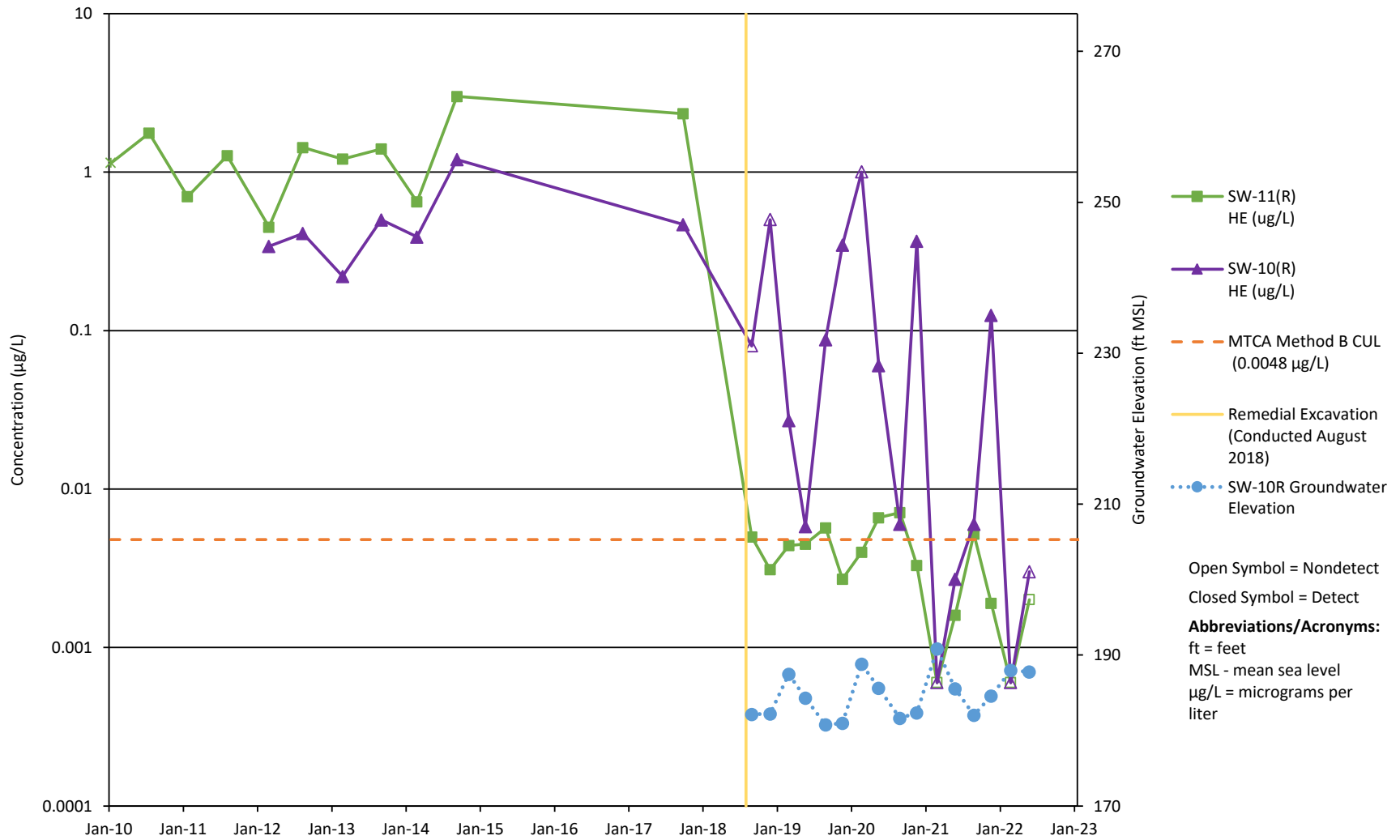
- Pesticide Monitoring Well
- ▲ Other Monitoring Well
- Tax Parcels



**Notes**

1. SW-9R, SW-10R, and SW-11R are new (replacement) wells.
2. Black and white reproduction of this color original may reduce its effectiveness and lead to incorrect interpretation.

Data Sources: Thurston County GIS; WA DNR Survey, 2018.



Webster Nursery Site  
Tumwater, Washington

**Heptachlor Epoxide and Groundwater  
Elevation Time Series  
SW-10(R) and SW-11(R)**

Figure  
**3**

**Table 1**  
**Groundwater Analytical Results**  
**Webster Nursery**  
**Tumwater, Washington**

| Analyte                                | MTCA Method B<br>Cleanup Levels | Sample Location, Sample ID, Laboratory SDG,<br>Sample Date, and Sample Type |   |  |
|--|---------------------------------|---|---|--|
|  |                                 | SW-10R  | SW-11R                                  | SW-11R                                 |
|  |                                 | SW-10R-20220524<br>22E0392<br>5/24/2022                                     | SW-11R-20220524<br>22E0392<br>5/24/2022 | SW-99-20220524<br>22E0392<br>5/24/2022 |
|  | Cancerous                       | N   | N                                       | FD                                     |
| <b>Pesticides (µg/L; SW-846 8081B)</b> |                                 |   |   |  |
| 4,4'-DDD                               | --                              | 0.0013 U  | 0.0013 U                                | 0.0013 U                               |
| 4,4'-DDE                               | --                              | 0.0013 U  | 0.0013 U                                | 0.0013 U                               |
| 4,4'-DDT                               | --                              | 0.0013 U  | 0.0013 U                                | 0.0013 U                               |
| Aldrin                                 | --                              | 0.0006 U  | 0.0006 U                                | 0.0006 U                               |
| alpha-BHC                              | --                              | 0.0006 U  | 0.0006 U                                | 0.0006 U                               |
| beta-BHC                               | --                              | 0.0006 U  | 0.0006 U                                | 0.0006 U                               |
| Chlordane                              | 0.25                            | 0.0050 U  | 0.0050 U                                | 0.0050 U                               |
| cis-Chlordane                          | --                              | 0.0006 U  | 0.0006 U                                | 0.0006 U                               |
| delta-BHC                              | --                              | 0.0006 U  | 0.0006 U                                | 0.0006 U                               |
| Dieldrin                               | --                              | 0.0013 U  | 0.0013 U                                | 0.0013 U                               |
| Endosulfan I                           | --                              | 0.0006 U  | 0.0006 U                                | 0.0006 U                               |
| Endosulfan II                          | --                              | 0.0013 U  | 0.0013 U                                | 0.0013 U                               |
| Endosulfan Sulfate                     | --                              | 0.0013 U  | 0.0013 U                                | 0.0013 U                               |
| Endrin                                 | --                              | 0.0013 U  | 0.0013 U                                | 0.0013 U                               |
| Endrin Aldehyde                        | --                              | 0.0013 U  | 0.0013 U                                | 0.0013 U                               |
| Endrin Ketone                          | --                              | 0.0013 U  | 0.0013 U                                | 0.0013 U                               |
| gamma-BHC                              | --                              | 0.0006 U  | 0.0006 U                                | 0.0006 U                               |
| Heptachlor                             | 0.0194                          | 0.0006 U  | 0.0006 U                                | 0.0006 U                               |
| Heptachlor Epoxide                     | 0.0048                          | 0.0030 U  | 0.0020 U                                | <b>0.0010</b>                          |
| Methoxychlor                           | --                              | 0.0063 U  | 0.0063 U                                | 0.0063 U                               |
| Toxaphene                              | --                              | 0.0625 U  | 0.0625 U                                | 0.0625 U                               |
| trans-Chlordane                        | --                              | 0.0006 U  | 0.0006 U                                | 0.0006 U                               |

**Notes:**

-- = cleanup level not applicable

**Bold text** = Indicates detected analyte.

Green Box = Detected concentration is greater than the cleanup level

U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

**Abbreviations and Acronyms:**

FD = field duplicate

ID = identification

µg/L = micrograms per liter

**Table 2**  
**Groundwater Level Measurements**  
**Webster Nursery**  
**Tumwater, Washington**

| Well ID | Top of Casing Elevation<br>(ft) | Depth to Water<br>(ft bgs) | Groundwater Elevation<br>(ft) |
|---------|---------------------------------|----------------------------|-------------------------------|
| SW-10R  | 193.41                          | 5.65                       | 187.76                        |
| SW-11R  | 192.50                          | 5.03                       | 187.47                        |

**Notes:**

Groundwater elevation data was measured February 22, 2022.

**Abbreviations:**

bgs = below ground surface  
ft = feet  
ID = identification



# May 2022 Laboratory Data Package



**Analytical Resources, LLC**  
Analytical Chemists and Consultants

21 June 2022

Sierra Mott  
Landau Associates, Inc. - Tacoma  
2107 South C Street  
Tacoma, WA 98402

RE: Webster Nursery (0774006.040.047 (2Q Sampling))

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)  
22E0392

Associated SDG ID(s)  
N/A

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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 enclosed 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, LLC

Kelly Bottem, Client Services Manager

*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 its entirety.*







Landau Associates, Inc. - Tacoma  
2107 South C Street  
Tacoma WA, 98402

Project: Webster Nursery  
Project Number: 0774006.040.047 (2Q Sampling)  
Project Manager: Sierra Mott

**Reported:**  
21-Jun-2022 13:53

**ANALYTICAL REPORT FOR SAMPLES**

| <b>Sample ID</b> | <b>Laboratory ID</b> | <b>Matrix</b> | <b>Date Sampled</b> | <b>Date Received</b> |
|------------------|----------------------|---------------|---------------------|----------------------|
| SW-10R-20220524  | 22E0392-01           | Water         | 24-May-2022 09:36   | 24-May-2022 11:31    |
| SW-11R-20220524  | 22E0392-02           | Water         | 24-May-2022 10:15   | 24-May-2022 11:31    |
| SW-99-20220524   | 22E0392-03           | Water         | 24-May-2022 10:16   | 24-May-2022 11:31    |



Landau Associates, Inc. - Tacoma  
2107 South C Street  
Tacoma WA, 98402

Project: Webster Nursery  
Project Number: 0774006.040.047 (2Q Sampling)  
Project Manager: Sierra Mott

**Reported:**  
21-Jun-2022 13:53

## **Work Order Case Narrative**

### **Pesticides - EPA Method SW8081B**

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits with the exception of analytes flagged on the associated forms.



# Cooler Receipt Form

ARI Client: Landau

Project Name: webster nursery

COC No(s): \_\_\_\_\_ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: \_\_\_\_\_

Assigned ARI Job No: 22E0392

Tracking No: \_\_\_\_\_ NA

**Preliminary Examination Phase:**

Were intact, properly signed and dated custody seals attached to the outside of the 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 chemistry)

Time 1131 34

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 2565

Cooler Accepted by: Pa Date: 5-24-22 Time: 1131

**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 Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: \_\_\_\_\_

Was sufficient ice used (if appropriate)? ..... NA YES NO

How were bottles sealed in plastic bags? ..... Individually Grouped Not

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 number of containers received? ..... 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 preservation 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 ..... NA

Were the sample(s) split by ARI? NA YES Date/Time: \_\_\_\_\_ Equipment: \_\_\_\_\_ Split by: \_\_\_\_\_

Samples Logged by: [Signature] Date: 05/24/2022 Time: 1513 Labels checked by: SLF

**\*\* Notify Project Manager of discrepancies or concerns \*\***

| Sample ID on Bottle | Sample ID on COC | Sample ID on Bottle | Sample ID on COC |
|---------------------|------------------|---------------------|------------------|
|                     |                  |                     |                  |
|                     |                  |                     |                  |
|                     |                  |                     |                  |
|                     |                  |                     |                  |

**Additional Notes, Discrepancies, & Resolutions:**

By: \_\_\_\_\_ Date: \_\_\_\_\_



Landau Associates, Inc. - Tacoma  
2107 South C Street  
Tacoma WA, 98402

Project: Webster Nursery  
Project Number: 0774006.040.047 (2Q Sampling)  
Project Manager: Sierra Mott

**Reported:**  
21-Jun-2022 13:53

**SW-10R-20220524**  
**22E0392-01 (Water)**

**Chlorinated Pesticides**

Method: EPA 8081B Sampled: 05/24/2022 09:36  
Instrument: ECD6 Analyst: yz Analyzed: 06/16/2022 16:51

**Analysis by: Analytical Resources, LLC**

|                     |  |  |                             |
|---------------------|--|--|-----------------------------|
| Sample Preparation: | Preparation Method: EPA 3510C SepF<br>Preparation Batch: BKE0709<br>Prepared: 05/31/2022 | Sample Size: 1000 mL<br>Final Volume: 0.5 mL   | Extract ID: 22E0392-01 A 01 |
| Sample Cleanup:     | Cleanup Method: Silica Gel<br>Cleanup Batch: CKF0105<br>Cleaned: 14-Jun-2022             | Initial Volume: 0.5 uL<br>Final Volume: 0.5 uL | Extract ID: 22E0392-01 A 01 |
| Sample Cleanup:     | Cleanup Method: Sulfur<br>Cleanup Batch: CKF0104<br>Cleaned: 14-Jun-2022                 | Initial Volume: 0.5 uL<br>Final Volume: 0.5 uL | Extract ID: 22E0392-01 A 01 |

| Analyte                                      | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|--|------------|----------|-----------------|--------|-------|-------|
| alpha-BHC                                    | 319-84-6   | 1        | 0.0006          | ND     | ug/L  | U     |
| beta-BHC                                     | 319-85-7   | 1        | 0.0006          | ND     | ug/L  | U     |
| gamma-BHC (Lindane)                          | 58-89-9    | 1        | 0.0006          | ND     | ug/L  | U     |
| delta-BHC                                    | 319-86-8   | 1        | 0.0006          | ND     | ug/L  | U     |
| Heptachlor                                   | 76-44-8    | 1        | 0.0006          | ND     | ug/L  | U     |
| Aldrin                                       | 309-00-2   | 1        | 0.0006          | ND     | ug/L  | U     |
| Heptachlor Epoxide                           | 1024-57-3  | 1        | 0.0030          | ND     | ug/L  | Y1, U |
| trans-Chlordane (beta-Chlordane)             | 5103-74-2  | 1        | 0.0006          | ND     | ug/L  | U     |
| cis-Chlordane (alpha-chlordane)              | 5103-71-9  | 1        | 0.0006          | ND     | ug/L  | U     |
| Endosulfan I                                 | 959-98-8   | 1        | 0.0006          | ND     | ug/L  | U     |
| 4,4'-DDE                                     | 72-55-9    | 1        | 0.0013          | ND     | ug/L  | U     |
| Dieldrin                                     | 60-57-1    | 1        | 0.0013          | ND     | ug/L  | U     |
| Endrin                                       | 72-20-8    | 1        | 0.0013          | ND     | ug/L  | U     |
| Endosulfan II                                | 33213-65-9 | 1        | 0.0013          | ND     | ug/L  | U     |
| 4,4'-DDD                                     | 72-54-8    | 1        | 0.0013          | ND     | ug/L  | U     |
| Endrin Aldehyde                              | 7421-93-4  | 1        | 0.0013          | ND     | ug/L  | U     |
| 4,4'-DDT                                     | 50-29-3    | 1        | 0.0013          | ND     | ug/L  | U     |
| Endosulfan Sulfate                           | 1031-07-8  | 1        | 0.0013          | ND     | ug/L  | U     |
| Endrin Ketone                                | 53494-70-5 | 1        | 0.0013          | ND     | ug/L  | U     |
| Methoxychlor                                 | 72-43-5    | 1        | 0.0063          | ND     | ug/L  | U     |
| Toxaphene                                    | 8001-35-2  | 1        | 0.0625          | ND     | ug/L  | U     |
| Chlordane (NOS)                              | 57-74-9    | 1        | 0.0050          | ND     | ug/L  | U     |
| <i>Surrogate: Decachlorobiphenyl</i>         |            |          | 30-160 %        | 109    | %     |       |
| <i>Surrogate: Decachlorobiphenyl [2C]</i>    |            |          | 30-160 %        | 102    | %     |       |
| <i>Surrogate: Tetrachlorometaxylene</i>      |            |          | 30-160 %        | 49.2   | %     |       |
| <i>Surrogate: Tetrachlorometaxylene [2C]</i> |            |          | 30-160 %        | 42.9   | %     |       |



Landau Associates, Inc. - Tacoma  
2107 South C Street  
Tacoma WA, 98402

Project: Webster Nursery  
Project Number: 0774006.040.047 (2Q Sampling)  
Project Manager: Sierra Mott

**Reported:**  
21-Jun-2022 13:53

**SW-11R-20220524**  
**22E0392-02 (Water)**

**Chlorinated Pesticides**

Method: EPA 8081B Sampled: 05/24/2022 10:15  
Instrument: ECD6 Analyst: YZ Analyzed: 06/16/2022 17:09

**Analysis by: Analytical Resources, LLC**

|                     |  |  |                             |
|---------------------|--|--|-----------------------------|
| Sample Preparation: | Preparation Method: EPA 3510C SepF<br>Preparation Batch: BKE0709<br>Prepared: 05/31/2022 | Sample Size: 1000 mL<br>Final Volume: 0.5 mL   | Extract ID: 22E0392-02 A 01 |
| Sample Cleanup:     | Cleanup Method: Silica Gel<br>Cleanup Batch: CKF0105<br>Cleaned: 14-Jun-2022             | Initial Volume: 0.5 uL<br>Final Volume: 0.5 uL | Extract ID: 22E0392-02 A 01 |
| Sample Cleanup:     | Cleanup Method: Sulfur<br>Cleanup Batch: CKF0104<br>Cleaned: 14-Jun-2022                 | Initial Volume: 0.5 uL<br>Final Volume: 0.5 uL | Extract ID: 22E0392-02 A 01 |

| Analyte                                      | CAS Number | Dilution | Reporting Limit | Result   | Units | Notes |
|--|------------|----------|-----------------|----------|-------|-------|
| alpha-BHC                                    | 319-84-6   | 1        | 0.0006          | ND       | ug/L  | U     |
| beta-BHC                                     | 319-85-7   | 1        | 0.0006          | ND       | ug/L  | U     |
| gamma-BHC (Lindane)                          | 58-89-9    | 1        | 0.0006          | ND       | ug/L  | U     |
| delta-BHC                                    | 319-86-8   | 1        | 0.0006          | ND       | ug/L  | U     |
| Heptachlor                                   | 76-44-8    | 1        | 0.0006          | ND       | ug/L  | U     |
| Aldrin                                       | 309-00-2   | 1        | 0.0006          | ND       | ug/L  | U     |
| Heptachlor Epoxide                           | 1024-57-3  | 1        | 0.0020          | ND       | ug/L  | Y1, U |
| trans-Chlordane (beta-Chlordane)             | 5103-74-2  | 1        | 0.0006          | ND       | ug/L  | U     |
| cis-Chlordane (alpha-chlordane)              | 5103-71-9  | 1        | 0.0006          | ND       | ug/L  | U     |
| Endosulfan I                                 | 959-98-8   | 1        | 0.0006          | ND       | ug/L  | U     |
| 4,4'-DDE                                     | 72-55-9    | 1        | 0.0013          | ND       | ug/L  | U     |
| Dieldrin                                     | 60-57-1    | 1        | 0.0013          | ND       | ug/L  | U     |
| Endrin                                       | 72-20-8    | 1        | 0.0013          | ND       | ug/L  | U     |
| Endosulfan II                                | 33213-65-9 | 1        | 0.0013          | ND       | ug/L  | U     |
| 4,4'-DDD                                     | 72-54-8    | 1        | 0.0013          | ND       | ug/L  | U     |
| Endrin Aldehyde                              | 7421-93-4  | 1        | 0.0013          | ND       | ug/L  | U     |
| 4,4'-DDT                                     | 50-29-3    | 1        | 0.0013          | ND       | ug/L  | U     |
| Endosulfan Sulfate                           | 1031-07-8  | 1        | 0.0013          | ND       | ug/L  | U     |
| Endrin Ketone                                | 53494-70-5 | 1        | 0.0013          | ND       | ug/L  | U     |
| Methoxychlor                                 | 72-43-5    | 1        | 0.0063          | ND       | ug/L  | U     |
| Toxaphene                                    | 8001-35-2  | 1        | 0.0625          | ND       | ug/L  | U     |
| Chlordane (NOS)                              | 57-74-9    | 1        | 0.0050          | ND       | ug/L  | U     |
| <i>Surrogate: Decachlorobiphenyl</i>         |            |          |                 | 30-160 % | 136   | %     |
| <i>Surrogate: Decachlorobiphenyl [2C]</i>    |            |          |                 | 30-160 % | 121   | %     |
| <i>Surrogate: Tetrachlorometaxylene</i>      |            |          |                 | 30-160 % | 54.2  | %     |
| <i>Surrogate: Tetrachlorometaxylene [2C]</i> |            |          |                 | 30-160 % | 54.8  | %     |





|   |   |                                       |
|---|---|---------------------------------------|
| Landau Associates, Inc. - Tacoma<br>2107 South C Street<br>Tacoma WA, 98402 | Project: Webster Nursery<br>Project Number: 0774006.040.047 (2Q Sampling)<br>Project Manager: Sierra Mott | <b>Reported:</b><br>21-Jun-2022 13:53 |
|---|---|---------------------------------------|

**SW-99-20220524**  
**22E0392-03 (Water)**

**Chlorinated Pesticides**

Method: EPA 8081B Sampled: 05/24/2022 10:16  
Instrument: ECD6 Analyst: yz Analyzed: 06/16/2022 17:28

**Analysis by: Analytical Resources, LLC**

|                     |  |  |                             |
|---------------------|--|--|-----------------------------|
| Sample Preparation: | Preparation Method: EPA 3510C SepF<br>Preparation Batch: BKE0709<br>Prepared: 05/31/2022 | Sample Size: 1000 mL<br>Final Volume: 0.5 mL   | Extract ID: 22E0392-03 A 01 |
| Sample Cleanup:     | Cleanup Method: Silica Gel<br>Cleanup Batch: CKF0105<br>Cleaned: 14-Jun-2022             | Initial Volume: 0.5 uL<br>Final Volume: 0.5 uL | Extract ID: 22E0392-03 A 01 |
| Sample Cleanup:     | Cleanup Method: Sulfur<br>Cleanup Batch: CKF0104<br>Cleaned: 14-Jun-2022                 | Initial Volume: 0.5 uL<br>Final Volume: 0.5 uL | Extract ID: 22E0392-03 A 01 |

| Analyte                                      | CAS Number | Dilution | Reporting Limit | Result | Units | Notes |
|--|------------|----------|-----------------|--------|-------|-------|
| alpha-BHC                                    | 319-84-6   | 1        | 0.0006          | ND     | ug/L  | U     |
| beta-BHC                                     | 319-85-7   | 1        | 0.0006          | ND     | ug/L  | U     |
| gamma-BHC (Lindane)                          | 58-89-9    | 1        | 0.0006          | ND     | ug/L  | U     |
| delta-BHC                                    | 319-86-8   | 1        | 0.0006          | ND     | ug/L  | U     |
| Heptachlor                                   | 76-44-8    | 1        | 0.0006          | ND     | ug/L  | U     |
| Aldrin                                       | 309-00-2   | 1        | 0.0006          | ND     | ug/L  | U     |
| Heptachlor Epoxide                           | 1024-57-3  | 1        | 0.0006          | 0.0010 | ug/L  |       |
| trans-Chlordane (beta-Chlordane)             | 5103-74-2  | 1        | 0.0006          | ND     | ug/L  | U     |
| cis-Chlordane (alpha-chlordane)              | 5103-71-9  | 1        | 0.0006          | ND     | ug/L  | U     |
| Endosulfan I                                 | 959-98-8   | 1        | 0.0006          | ND     | ug/L  | U     |
| 4,4'-DDE                                     | 72-55-9    | 1        | 0.0013          | ND     | ug/L  | U     |
| Dieldrin                                     | 60-57-1    | 1        | 0.0013          | ND     | ug/L  | U     |
| Endrin                                       | 72-20-8    | 1        | 0.0013          | ND     | ug/L  | U     |
| Endosulfan II                                | 33213-65-9 | 1        | 0.0013          | ND     | ug/L  | U     |
| 4,4'-DDD                                     | 72-54-8    | 1        | 0.0013          | ND     | ug/L  | U     |
| Endrin Aldehyde                              | 7421-93-4  | 1        | 0.0013          | ND     | ug/L  | U     |
| 4,4'-DDT                                     | 50-29-3    | 1        | 0.0013          | ND     | ug/L  | U     |
| Endosulfan Sulfate                           | 1031-07-8  | 1        | 0.0013          | ND     | ug/L  | U     |
| Endrin Ketone                                | 53494-70-5 | 1        | 0.0013          | ND     | ug/L  | U     |
| Methoxychlor                                 | 72-43-5    | 1        | 0.0063          | ND     | ug/L  | U     |
| Toxaphene                                    | 8001-35-2  | 1        | 0.0625          | ND     | ug/L  | U     |
| Chlordane (NOS)                              | 57-74-9    | 1        | 0.0050          | ND     | ug/L  | U     |
| <i>Surrogate: Decachlorobiphenyl</i>         |            |          | 30-160 %        | 125    | %     |       |
| <i>Surrogate: Decachlorobiphenyl [2C]</i>    |            |          | 30-160 %        | 110    | %     |       |
| <i>Surrogate: Tetrachlorometaxylene</i>      |            |          | 30-160 %        | 49.3   | %     |       |
| <i>Surrogate: Tetrachlorometaxylene [2C]</i> |            |          | 30-160 %        | 52.5   | %     |       |



Landau Associates, Inc. - Tacoma  
2107 South C Street  
Tacoma WA, 98402

Project: Webster Nursery  
Project Number: 0774006.040.047 (2Q Sampling)  
Project Manager: Sierra Mott

**Reported:**  
21-Jun-2022 13:53

**Analysis by: Analytical Resources, LLC**

**Chlorinated Pesticides - Quality Control**

**Batch BKE0709 - EPA 3510C SepF**

Instrument: ECD6 Analyst: YZ

| QC Sample/Analyte                                 | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
| <b>Blank (BKE0709-BLK1)</b>                       |        |                 |       |             |               |      |             |     |           |       |
| Prepared: 31-May-2022 Analyzed: 16-Jun-2022 15:19 |        |                 |       |             |               |      |             |     |           |       |
| alpha-BHC   | ND     | 0.0006          | ug/L  |             |               |      |             |     |           | U     |
| beta-BHC  | ND     | 0.0006          | ug/L  |             |               |      |             |     |           | U     |
| gamma-BHC (Lindane)                               | ND     | 0.0006          | ug/L  |             |               |      |             |     |           | U     |
| delta-BHC   | ND     | 0.0006          | ug/L  |             |               |      |             |     |           | U     |
| Heptachlor  | ND     | 0.0006          | ug/L  |             |               |      |             |     |           | U     |
| Aldrin  | ND     | 0.0006          | ug/L  |             |               |      |             |     |           | U     |
| Heptachlor Epoxide                                | ND     | 0.0006          | ug/L  |             |               |      |             |     |           | U     |
| trans-Chlordane (beta-Chlordane)                  | ND     | 0.0006          | ug/L  |             |               |      |             |     |           | U     |
| cis-Chlordane (alpha-chlordane)                   | ND     | 0.0006          | ug/L  |             |               |      |             |     |           | U     |
| Endosulfan I                                      | ND     | 0.0006          | ug/L  |             |               |      |             |     |           | U     |
| 4,4'-DDE  | ND     | 0.0013          | ug/L  |             |               |      |             |     |           | U     |
| Dieldrin  | ND     | 0.0013          | ug/L  |             |               |      |             |     |           | U     |
| Endrin  | ND     | 0.0013          | ug/L  |             |               |      |             |     |           | U     |
| Endosulfan II                                     | ND     | 0.0013          | ug/L  |             |               |      |             |     |           | U     |
| 4,4'-DDD  | ND     | 0.0013          | ug/L  |             |               |      |             |     |           | U     |
| Endrin Aldehyde                                   | ND     | 0.0013          | ug/L  |             |               |      |             |     |           | U     |
| 4,4'-DDT  | ND     | 0.0013          | ug/L  |             |               |      |             |     |           | U     |
| Endosulfan Sulfate                                | ND     | 0.0013          | ug/L  |             |               |      |             |     |           | U     |
| Endrin Ketone                                     | ND     | 0.0013          | ug/L  |             |               |      |             |     |           | U     |
| Methoxychlor                                      | ND     | 0.0063          | ug/L  |             |               |      |             |     |           | U     |
| Toxaphene   | ND     | 0.0625          | ug/L  |             |               |      |             |     |           | U     |
| Chlordane (NOS)                                   | ND     | 0.0050          | ug/L  |             |               |      |             |     |           | U     |
| <i>Surrogate: Decachlorobiphenyl</i>              | 0.0219 |                 | ug/L  | 0.0200      | 109           |      | 30-160      |     |           |       |
| <i>Surrogate: Decachlorobiphenyl [2C]</i>         | 0.0202 |                 | ug/L  | 0.0200      | 101           |      | 30-160      |     |           |       |
| <i>Surrogate: Tetrachlorometaxylene</i>           | 0.0144 |                 | ug/L  | 0.0200      | 72.1          |      | 30-160      |     |           |       |
| <i>Surrogate: Tetrachlorometaxylene [2C]</i>      | 0.0160 |                 | ug/L  | 0.0200      | 79.9          |      | 30-160      |     |           |       |

|   |        |        |      |        |  |      |        |  |  |  |
|---|--------|--------|------|--------|--|------|--------|--|--|--|
| <b>LCS (BKE0709-BS1)</b>                          |        |        |      |        |  |      |        |  |  |  |
| Prepared: 31-May-2022 Analyzed: 16-Jun-2022 15:38 |        |        |      |        |  |      |        |  |  |  |
| alpha-BHC [2C]                                    | 0.0078 | 0.0006 | ug/L | 0.0100 |  | 77.5 | 30-160 |  |  |  |
| beta-BHC [2C]                                     | 0.0079 | 0.0006 | ug/L | 0.0100 |  | 78.9 | 30-160 |  |  |  |
| gamma-BHC (Lindane) [2C]                          | 0.0078 | 0.0006 | ug/L | 0.0100 |  | 78.5 | 30-160 |  |  |  |
| delta-BHC [2C]                                    | 0.0075 | 0.0006 | ug/L | 0.0100 |  | 75.4 | 30-160 |  |  |  |
| Heptachlor  | 0.0078 | 0.0006 | ug/L | 0.0100 |  | 77.6 | 30-160 |  |  |  |
| Aldrin [2C]                                       | 0.0076 | 0.0006 | ug/L | 0.0100 |  | 75.7 | 30-160 |  |  |  |
| Heptachlor Epoxide [2C]                           | 0.0085 | 0.0006 | ug/L | 0.0100 |  | 84.9 | 30-160 |  |  |  |



Landau Associates, Inc. - Tacoma  
2107 South C Street  
Tacoma WA, 98402

Project: Webster Nursery  
Project Number: 0774006.040.047 (2Q Sampling)  
Project Manager: Sierra Mott

**Reported:**  
21-Jun-2022 13:53

**Analysis by: Analytical Resources, LLC**

**Chlorinated Pesticides - Quality Control**

**Batch BKE0709 - EPA 3510C SepF**

Instrument: ECD6 Analyst: YZ

| QC Sample/Analyte                            | Result | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-------|-----------|-------|
| <b>LCS (BKE0709-BS1)</b>                     |        |                 |       |             |   |      |             |       |           |       |
|  |        |                 |       |             | Prepared: 31-May-2022 Analyzed: 16-Jun-2022 15:38 |      |             |       |           |       |
| trans-Chlordane (beta-Chlordane) [2C]        | 0.0075 | 0.0006          | ug/L  | 0.0100      |   | 74.7 | 30-160      |       |           |       |
| cis-Chlordane (alpha-chlordane) [2C]         | 0.0080 | 0.0006          | ug/L  | 0.0100      |   | 79.7 | 30-160      |       |           |       |
| Endosulfan I [2C]                            | 0.0082 | 0.0006          | ug/L  | 0.0100      |   | 81.8 | 30-160      |       |           |       |
| 4,4'-DDE [2C]                                | 0.0154 | 0.0013          | ug/L  | 0.0200      |   | 76.9 | 30-160      |       |           |       |
| Dieldrin [2C]                                | 0.0158 | 0.0013          | ug/L  | 0.0200      |   | 78.9 | 30-160      |       |           |       |
| Endrin [2C]                                  | 0.0160 | 0.0013          | ug/L  | 0.0200      |   | 79.9 | 30-160      |       |           |       |
| Endosulfan II                                | 0.0166 | 0.0013          | ug/L  | 0.0200      |   | 82.8 | 30-160      |       |           |       |
| 4,4'-DDD                                     | 0.0160 | 0.0013          | ug/L  | 0.0200      |   | 79.8 | 30-160      |       |           |       |
| Endrin Aldehyde                              | 0.0138 | 0.0013          | ug/L  | 0.0200      |   | 69.2 | 30-160      |       |           |       |
| 4,4'-DDT                                     | 0.0167 | 0.0013          | ug/L  | 0.0200      |   | 83.5 | 30-160      |       |           |       |
| Endosulfan Sulfate                           | 0.0181 | 0.0013          | ug/L  | 0.0200      |   | 90.3 | 30-160      |       |           |       |
| Endrin Ketone                                | 0.0180 | 0.0013          | ug/L  | 0.0200      |   | 89.8 | 30-160      |       |           |       |
| Methoxychlor [2C]                            | 0.0768 | 0.0063          | ug/L  | 0.100       |   | 76.8 | 30-160      |       |           |       |
| <i>Surrogate: Decachlorobiphenyl</i>         | 0.0218 |                 | ug/L  | 0.0200      |   | 109  | 30-160      |       |           |       |
| <i>Surrogate: Decachlorobiphenyl [2C]</i>    | 0.0171 |                 | ug/L  | 0.0200      |   | 85.4 | 30-160      |       |           |       |
| <i>Surrogate: Tetrachlorometaxylene</i>      | 0.0149 |                 | ug/L  | 0.0200      |   | 74.7 | 30-160      |       |           |       |
| <i>Surrogate: Tetrachlorometaxylene [2C]</i> | 0.0160 |                 | ug/L  | 0.0200      |   | 80.1 | 30-160      |       |           |       |
| <b>LCS (BKE0709-BS2)</b>                     |        |                 |       |             |   |      |             |       |           |       |
|  |        |                 |       |             | Prepared: 31-May-2022 Analyzed: 16-Jun-2022 16:33 |      |             |       |           |       |
| Toxaphene                                    | 0.878  | 0.0625          | ug/L  | 1.00        |   | 87.8 | 30-160      |       |           |       |
| <i>Surrogate: Decachlorobiphenyl</i>         | 0.0234 |                 | ug/L  | 0.0200      |   | 117  | 30-160      |       |           |       |
| <i>Surrogate: Decachlorobiphenyl [2C]</i>    | 0.0197 |                 | ug/L  | 0.0200      |   | 98.4 | 30-160      |       |           |       |
| <i>Surrogate: Tetrachlorometaxylene</i>      | 0.0143 |                 | ug/L  | 0.0200      |   | 71.5 | 30-160      |       |           |       |
| <i>Surrogate: Tetrachlorometaxylene [2C]</i> | 0.0144 |                 | ug/L  | 0.0200      |   | 71.9 | 30-160      |       |           |       |
| <b>LCS Dup (BKE0709-BSD1)</b>                |        |                 |       |             |   |      |             |       |           |       |
|  |        |                 |       |             | Prepared: 31-May-2022 Analyzed: 16-Jun-2022 15:56 |      |             |       |           |       |
| alpha-BHC                                    | 0.0060 | 0.0006          | ug/L  | 0.0100      |   | 60.4 | 30-160      | 20.70 | 30        |       |
| beta-BHC [2C]                                | 0.0062 | 0.0006          | ug/L  | 0.0100      |   | 62.1 | 30-160      | 23.80 | 30        |       |
| gamma-BHC (Lindane) [2C]                     | 0.0062 | 0.0006          | ug/L  | 0.0100      |   | 62.4 | 30-160      | 22.80 | 30        |       |
| delta-BHC [2C]                               | 0.0062 | 0.0006          | ug/L  | 0.0100      |   | 61.7 | 30-160      | 19.90 | 30        |       |
| Heptachlor                                   | 0.0062 | 0.0006          | ug/L  | 0.0100      |   | 62.4 | 30-160      | 21.80 | 30        |       |
| Aldrin [2C]                                  | 0.0064 | 0.0006          | ug/L  | 0.0100      |   | 63.9 | 30-160      | 16.80 | 30        | P1    |
| Heptachlor Epoxide [2C]                      | 0.0069 | 0.0006          | ug/L  | 0.0100      |   | 69.4 | 30-160      | 20.10 | 30        |       |
| trans-Chlordane (beta-Chlordane) [2C]        | 0.0062 | 0.0006          | ug/L  | 0.0100      |   | 61.8 | 30-160      | 18.90 | 30        |       |



Landau Associates, Inc. - Tacoma  
2107 South C Street  
Tacoma WA, 98402

Project: Webster Nursery  
Project Number: 0774006.040.047 (2Q Sampling)  
Project Manager: Sierra Mott

**Reported:**  
21-Jun-2022 13:53

**Analysis by: Analytical Resources, LLC**

**Chlorinated Pesticides - Quality Control**

**Batch BKE0709 - EPA 3510C SepF**

Instrument: ECD6 Analyst: YZ

| QC Sample/Analyte                     | Result | Reporting Limit | Units | Spike Level | Source Result                                     | %REC | %REC Limits | RPD   | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-------|-------------|---|------|-------------|-------|-----------|-------|
| <b>LCS Dup (BKE0709-BSD1)</b>         |        |                 |       |             | Prepared: 31-May-2022 Analyzed: 16-Jun-2022 15:56 |      |             |       |           |       |
| cis-Chlordane (alpha-chlordane) [2C]  | 0.0063 | 0.0006          | ug/L  | 0.0100      |   | 62.9 | 30-160      | 23.70 | 30        |       |
| Endosulfan I [2C]                     | 0.0066 | 0.0006          | ug/L  | 0.0100      |   | 66.0 | 30-160      | 21.40 | 30        |       |
| 4,4'-DDE [2C]                         | 0.0123 | 0.0013          | ug/L  | 0.0200      |   | 61.3 | 30-160      | 22.60 | 30        |       |
| Dieldrin [2C]                         | 0.0126 | 0.0013          | ug/L  | 0.0200      |   | 63.2 | 30-160      | 22.10 | 30        |       |
| Endrin                                | 0.0126 | 0.0013          | ug/L  | 0.0200      |   | 63.2 | 30-160      | 23.00 | 30        |       |
| Endosulfan II                         | 0.0150 | 0.0013          | ug/L  | 0.0200      |   | 74.9 | 30-160      | 9.93  | 30        |       |
| 4,4'-DDD                              | 0.0128 | 0.0013          | ug/L  | 0.0200      |   | 64.0 | 30-160      | 21.90 | 30        |       |
| Endrin Aldehyde                       | 0.0095 | 0.0013          | ug/L  | 0.0200      |   | 47.4 | 30-160      | 37.50 | 30        | *     |
| 4,4'-DDT                              | 0.0129 | 0.0013          | ug/L  | 0.0200      |   | 64.6 | 30-160      | 25.40 | 30        |       |
| Endosulfan Sulfate                    | 0.0142 | 0.0013          | ug/L  | 0.0200      |   | 70.9 | 30-160      | 24.10 | 30        |       |
| Endrin Ketone                         | 0.0143 | 0.0013          | ug/L  | 0.0200      |   | 71.7 | 30-160      | 22.30 | 30        |       |
| Methoxychlor                          | 0.0611 | 0.0063          | ug/L  | 0.100       |   | 61.1 | 30-160      | 18.20 | 30        |       |
| Surrogate: Decachlorobiphenyl         | 0.0209 |                 | ug/L  | 0.0200      | 105   |      | 30-160      |       |           |       |
| Surrogate: Decachlorobiphenyl [2C]    | 0.0168 |                 | ug/L  | 0.0200      | 84.2  |      | 30-160      |       |           |       |
| Surrogate: Tetrachlorometaxylene      | 0.0125 |                 | ug/L  | 0.0200      | 62.7  |      | 30-160      |       |           |       |
| Surrogate: Tetrachlorometaxylene [2C] | 0.0132 |                 | ug/L  | 0.0200      | 66.1  |      | 30-160      |       |           |       |



Landau Associates, Inc. - Tacoma  
2107 South C Street  
Tacoma WA, 98402

Project: Webster Nursery  
Project Number: 0774006.040.047 (2Q Sampling)  
Project Manager: Sierra Mott

**Reported:**  
21-Jun-2022 13:53

**Certified Analyses included in this Report**

| Analyte                               | Certifications       |
|---------------------------------------|----------------------|
| <b>EPA 8081B in Water</b>             |                      |
| alpha-BHC                             | DoD-ELAP,WADOE,NELAP |
| alpha-BHC [2C]                        | DoD-ELAP,WADOE,NELAP |
| beta-BHC                              | DoD-ELAP,WADOE,NELAP |
| beta-BHC [2C]                         | DoD-ELAP,WADOE,NELAP |
| gamma-BHC (Lindane)                   | DoD-ELAP,WADOE,NELAP |
| gamma-BHC (Lindane) [2C]              | DoD-ELAP,WADOE,NELAP |
| delta-BHC                             | DoD-ELAP,WADOE,NELAP |
| delta-BHC [2C]                        | DoD-ELAP,WADOE,NELAP |
| Heptachlor                            | DoD-ELAP,WADOE,NELAP |
| Heptachlor [2C]                       | DoD-ELAP,WADOE,NELAP |
| Aldrin                                | DoD-ELAP,WADOE,NELAP |
| Aldrin [2C]                           | DoD-ELAP,WADOE,NELAP |
| Heptachlor Epoxide                    | DoD-ELAP,WADOE,NELAP |
| Heptachlor Epoxide [2C]               | DoD-ELAP,WADOE,NELAP |
| trans-Chlordane (beta-Chlordane)      | DoD-ELAP,WADOE,NELAP |
| trans-Chlordane (beta-Chlordane) [2C] | DoD-ELAP,WADOE,NELAP |
| cis-Chlordane (alpha-chlordane)       | DoD-ELAP,WADOE,NELAP |
| cis-Chlordane (alpha-chlordane) [2C]  | DoD-ELAP,WADOE,NELAP |
| Endosulfan I                          | DoD-ELAP,WADOE,NELAP |
| Endosulfan I [2C]                     | DoD-ELAP,WADOE,NELAP |
| 4,4'-DDE                              | DoD-ELAP,WADOE,NELAP |
| 4,4'-DDE [2C]                         | DoD-ELAP,WADOE,NELAP |
| Dieldrin                              | DoD-ELAP,WADOE,NELAP |
| Dieldrin [2C]                         | DoD-ELAP,WADOE,NELAP |
| Endrin                                | DoD-ELAP,WADOE,NELAP |
| Endrin [2C]                           | DoD-ELAP,WADOE,NELAP |
| Endosulfan II                         | DoD-ELAP,WADOE,NELAP |
| Endosulfan II [2C]                    | DoD-ELAP,WADOE,NELAP |
| 4,4'-DDD                              | DoD-ELAP,WADOE,NELAP |
| 4,4'-DDD [2C]                         | DoD-ELAP,WADOE,NELAP |
| Endrin Aldehyde                       | DoD-ELAP,WADOE,NELAP |
| Endrin Aldehyde [2C]                  | DoD-ELAP,WADOE,NELAP |
| 4,4'-DDT                              | DoD-ELAP,WADOE,NELAP |
| 4,4'-DDT [2C]                         | DoD-ELAP,WADOE,NELAP |
| Endosulfan Sulfate                    | DoD-ELAP,WADOE,NELAP |



Landau Associates, Inc. - Tacoma  
2107 South C Street  
Tacoma WA, 98402

Project: Webster Nursery  
Project Number: 0774006.040.047 (2Q Sampling)  
Project Manager: Sierra Mott

**Reported:**  
21-Jun-2022 13:53

|                           |                      |
|---------------------------|----------------------|
| Endosulfan Sulfate [2C]   | DoD-ELAP,WADOE,NELAP |
| Endrin Ketone             | DoD-ELAP,WADOE,NELAP |
| Endrin Ketone [2C]        | DoD-ELAP,WADOE,NELAP |
| Methoxychlor              | DoD-ELAP,WADOE,NELAP |
| Methoxychlor [2C]         | DoD-ELAP,WADOE,NELAP |
| Hexachlorobutadiene       | DoD-ELAP,WADOE,NELAP |
| Hexachlorobutadiene [2C]  | DoD-ELAP,WADOE,NELAP |
| Hexachlorobenzene         | DoD-ELAP,WADOE,NELAP |
| Hexachlorobenzene [2C]    | DoD-ELAP,WADOE,NELAP |
| 2,4'-DDE                  | DoD-ELAP             |
| 2,4'-DDE [2C]             | DoD-ELAP             |
| 2,4'-DDD                  | DoD-ELAP             |
| 2,4'-DDD [2C]             | DoD-ELAP             |
| 2,4'-DDT                  | DoD-ELAP             |
| 2,4'-DDT [2C]             | DoD-ELAP             |
| Oxychlorane               | DoD-ELAP             |
| Oxychlorane [2C]          | DoD-ELAP             |
| cis-Nonachlor             | DoD-ELAP             |
| cis-Nonachlor [2C]        | DoD-ELAP             |
| trans-Nonachlor           | DoD-ELAP             |
| trans-Nonachlor [2C]      | DoD-ELAP             |
| Mirex                     | DoD-ELAP             |
| Mirex [2C]                | DoD-ELAP             |
| Toxaphene                 | DoD-ELAP             |
| Toxaphene [2C]            | DoD-ELAP             |
| Chlordane, technical      | DoD-ELAP             |
| Chlordane, technical [2C] | DoD-ELAP             |

| Code  | Description                                      | Number       | Expires    |
|-------|--|--------------|------------|
| ADEC  | Alaska Dept of Environmental Conservation        | 17-015       | 03/28/2023 |
| NELAP | ORELAP - Oregon Laboratory Accreditation Program | WA100006-012 | 05/12/2023 |
| WADOE | WA Dept of Ecology                               | C558         | 06/30/2022 |
| WA-DW | Ecology - Drinking Water                         | C558         | 06/30/2022 |



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Project: Webster Nursery  
Project Number: 0774006.040.047 (2Q Sampling)  
Project Manager: Sierra Mott

**Reported:**  
21-Jun-2022 13:53

### Notes and Definitions

- \* Flagged value is not within established control limits.
- 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 reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
- Y1 Raised reporting limit due to interference
- 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.