



Water Year 2017

Washington Walla Walla Basin Aquifer Recharge Report



September 2017

Water Year 2017
Washington Walla Walla Basin Aquifer Recharge Report

Written by:

Steven Patten – *Senior Environmental Scientist, WWBWC*

Walla Walla Basin Watershed Council
2017

TABLE OF CONTENTS

| | |
|---|----|
| Executive Summary..... | 5 |
| Introduction..... | 6 |
| Hydrologic Setting..... | 6 |
| Aquifer Recharge Sites | 13 |
| Locher Road | 13 |
| Stiller Pond..... | 17 |
| Last Chance Road..... | 18 |
| WA Mud Creek | 20 |
| Water Year 2017 Recharge Season Results | 20 |
| Locher Road | 20 |
| Overview..... | 20 |
| Alluvial Well Responses | 21 |
| Water Quality..... | 26 |
| Soil Quality..... | 26 |
| Stiller Pond..... | 26 |
| Overview..... | 26 |
| Alluvial Well Responses | 28 |
| Water Quality..... | 31 |
| Soil Quality..... | 32 |
| Extent of Poned Water Map | 35 |
| Last Chance Road..... | 36 |
| Overview..... | 36 |
| Water Quality..... | 37 |
| Soil Quality..... | 37 |
| WA Mud Creek | 38 |
| Overview..... | 38 |
| Water Quality..... | 38 |
| Soil Quality..... | 38 |
| Summary and Discussion | 39 |
| Groundwater/Surface Water Interactions and Trends | 39 |
| References | 43 |

Appendix A - Monitoring well hydrographs, including all available data, for the Locher Road and Stiller Pond Aquifer Recharge sites

Appendix B - Water & Soil Quality results for WY2017

Stiller Pond – WY2017

Appendix C - Walla Walla Basin Aquifer Recharge Water Quality and Water Level Monitoring Quality Assurance Project Plan

EXECUTIVE SUMMARY

This report summarizes operations of an aquifer recharge (AR) site in the Washington portion of the Walla Walla Basin, the Stiller Pond Aquifer Recharge (Stiller Pond) site, during Water Year 2017 (October 1 2016 to September 30 2017). It also summarizes the three sites that did not operate during the WY2017 recharge season, Locher Road, Last Chance Road and WA Mud Creek. Data include recharge amounts, supporting groundwater level, groundwater quality, source water quality and soil quality data as determined by the Walla Walla Basin Aquifer Recharge Water Quality and Water Level Monitoring Quality Assurance Project Plan.

For Water Year 2017, water for the Stiller Pond site was sourced from Mill Creek at a private diversion located downstream of Wallula Road. The water was delivered down a pipeline to the Stiller Pond site. A total of 279 acre-feet were delivered to the Stiller Pond site. The total amount of water diverted aquifer recharge operations during WY2017 was ~279 acre-feet (~90.9 million gallons).

Water level and water quality data were collected in accordance to the approved monitoring plan (WWBWC, 2015). Down-gradient groundwater monitoring wells in the vicinity of the recharge sites responded to recharge activities, with groundwater elevations increasing and decreasing as recharge operations began and ended.

Groundwater and surface water quality data collected during aquifer recharge activities do not indicate any potential water quality concerns or that AR activities are degrading groundwater quality. Source water being delivered to the AR sites was of acceptable quality and likely resulted in some observed improvement in groundwater quality over the recharge season.

INTRODUCTION

The Walla Walla Basin Aquifer Recharge program has been in existence since 2004. The first pilot project, the Johnson site, was started in Oregon in the spring of 2004. The program expanded in 2006 with the addition of the Hall-Wentland site just south of the Oregon-Washington state line. The first site in Washington, Locher Road, started in 2007. For a more in-depth background to the aquifer recharge program and the Walla Walla basin's hydrology and geology, please see the Walla Walla Basin Aquifer Recharge Strategic Plan (www.wwbwc.org/projects/recharge.html).

HYDROLOGIC SETTING

The Walla Walla River (River) system is a bi-state watershed located in northeast Oregon and southeast Washington (Figure 1). The River's headwaters are located in the Blue Mountains, the crest of which defines the eastern extent of the watershed. The mainstem Walla Walla River and its primary tributaries, Mill Creek and the Touchet River, are the three primary surface channels of the system. They coalesce within the Walla Walla Valley from which the Walla Walla River then flows draining to the Columbia River (Figure 2). This report focuses on the portion of the River system that comprises the Walla Walla River mainstem and Mill Creek, especially where they flow onto and across the area referred to in the balance of this report as the Walla Walla Valley (Figure 4).

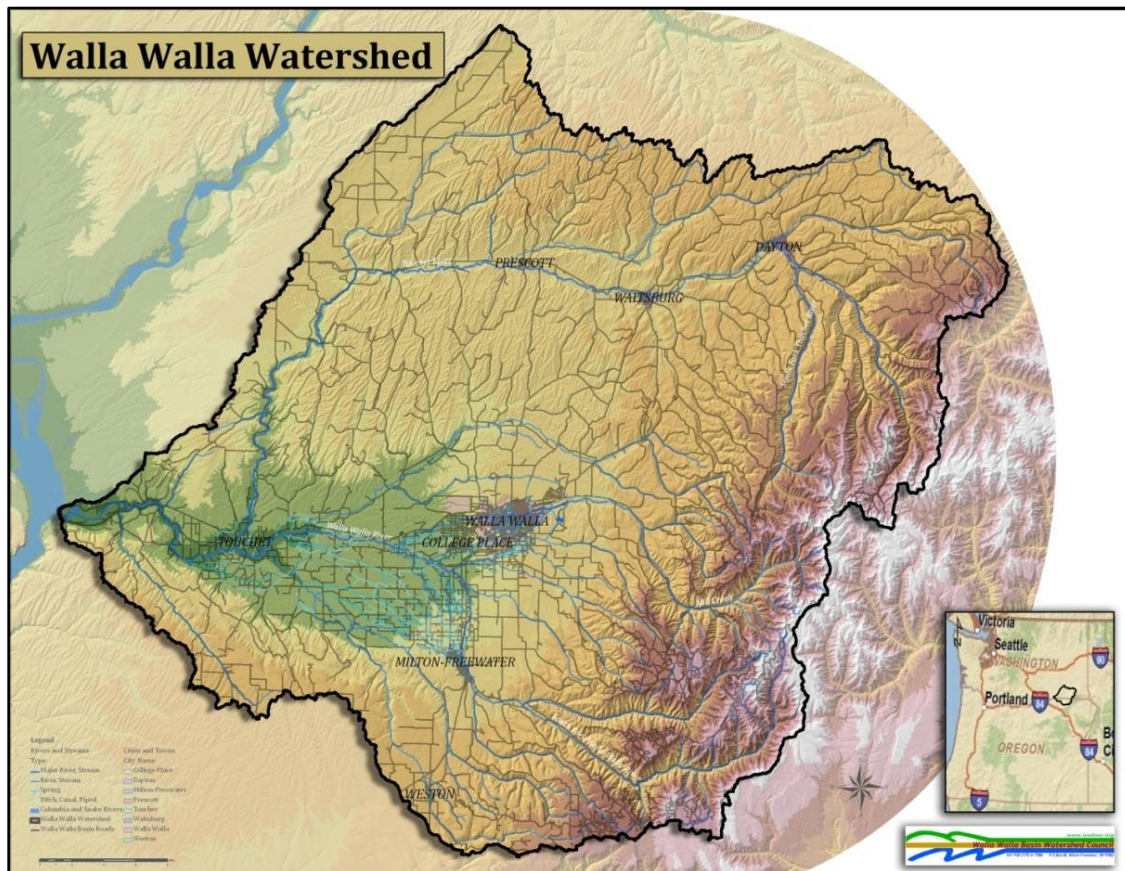


Figure 1 - The Walla Walla Watershed in Northeast Oregon and Southeast Washington.

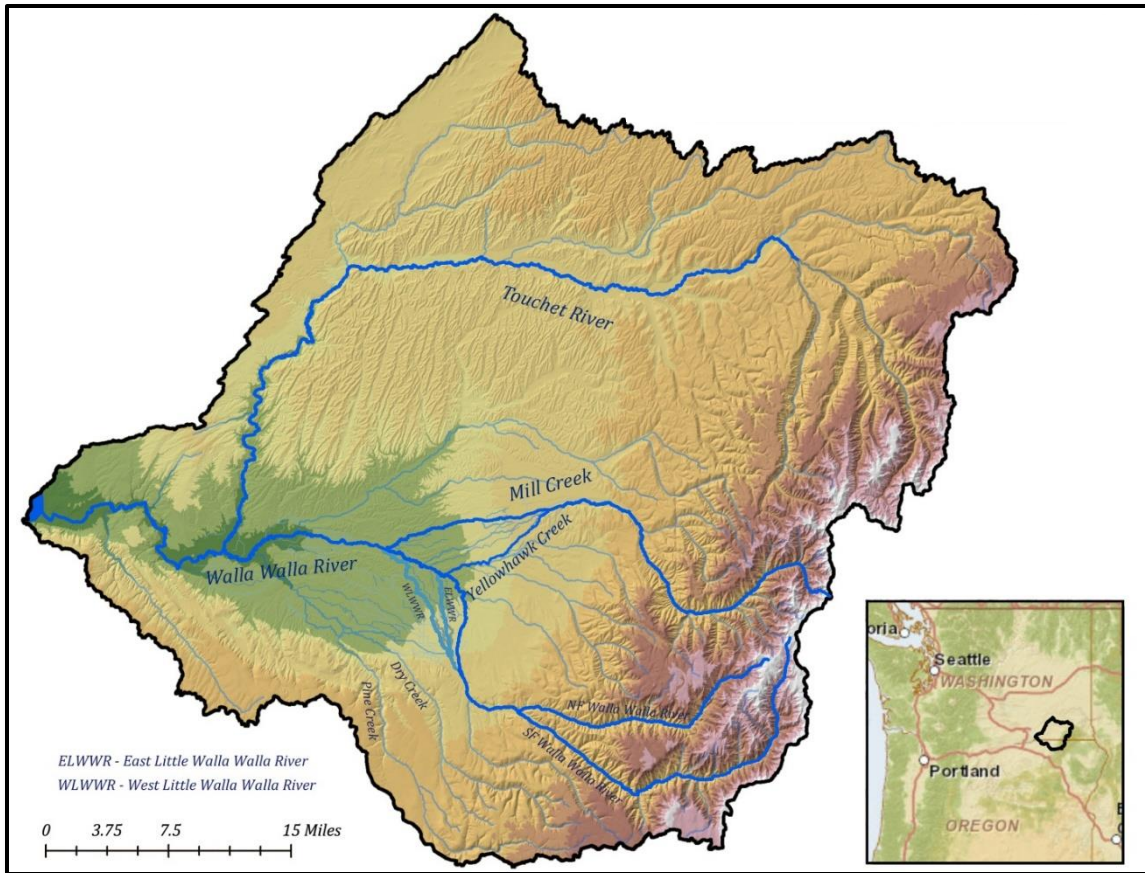


Figure 2 - The Walla Walla River and its major tributaries and distributaries.

Walla Walla Basin hydrology is largely defined by a distributary river system and an underlying alluvial aquifer system hosted by sediments overlying the Columbia River Basalt Group (CRBG). Surface waters entering the Walla Walla Valley effectively change regime from steep sided canyons in the headwaters portion of the watershed to a system of distributary and coalescing streams on the valley floor (Figure 4). With this, shallow groundwater systems see a regime change from localized, saturated valley deposits and confined basalt aquifers controlled by the geologic structure of the CRBG to the more widespread, thick alluvial aquifer system immediately underlying the valley floor. Depth to basalt beneath the base of the canyon floors in the highland areas upstream of the cities of Walla Walla and Milton-Freewater is typically less than 60 feet, with 30 feet more commonly observed. Beneath the valley floor the top of basalt is often hundreds of feet deep below overlying alluvial sediments.

Groundwater in the Walla Walla Basin occurs in two principal aquifer systems: (1) the unconfined to confined suprabasalt sediment (alluvial) aquifer system and (2) the underlying confined basalt aquifer system (Newcomb, 1965). The basalt aquifer system is regional in character, having limited hydraulic connection to the Walla Walla River, primarily in the canyons of the Blue Mountains. The alluvial aquifer system is the focus of the aquifer recharge program because of its high degree of hydraulic connection with streams on the valley floor.

The alluvial aquifer system, or alluvial aquifer, is found within a sequence of continental clastic sediments overlying the top of basalt (the Mio-Pliocene strata (upper coarse, fine and lower coarse units) and the Quaternary coarse unit). Beneath the Walla Walla Valley floor these sediments, and the alluvial aquifer system, is up to 800 feet thick. The majority of the productive portions of the alluvial aquifer system are hosted by the Mio-Pliocene coarse unit although, at least locally, it is hosted in the overlying Quaternary coarse unit as well. The alluvial aquifer is generally characterized as unconfined, but it does, at least locally, display evidence of confined conditions. Preferential groundwater flow within the gravel aquifer is inferred to largely reflect the distribution of coarse sedimentary strata. General groundwater flow direction can be inferred from the alluvial aquifer water table map (Figure 3).

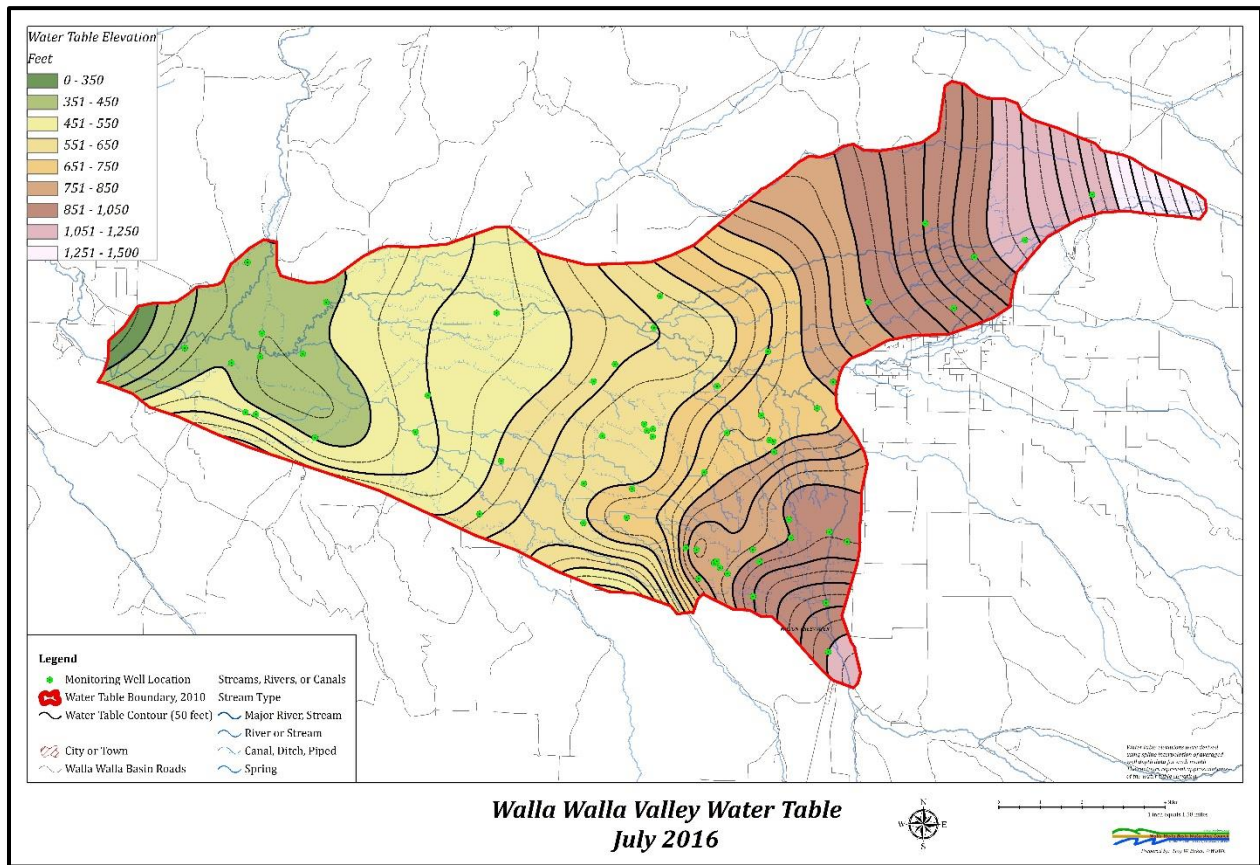


Figure 3 - Water table contours for the alluvial aquifer system.

The surficial hydrology of the Walla Walla Basin generally is defined by streams confined to steep-walled canyons in the foothills surrounding the valley, a distributary stream system as these streams exit the highlands and flow out onto the valley floor, and then, as the streams flow west, they coalesce into the main Walla Walla River channel. The distributary system formed as streams leaving the highlands entered the valley, went from higher to lower gradient and, as a consequence, deposited coarse sediment loads and formed a series of low angle, coalescing alluvial fans. Upon the alluvial fans, in and around the cities of Walla Walla and Milton-Freewater, these natural

distributary channels still exist in part or in whole to this day. These channels are known today as the East Little Walla Walla River, West Little Walla Walla River, Mud Creek, Yellowhawk Creek, Garrison Creek and others. Prior to the development of water resources in the valley, these distributary channels, with other (un-named) channels, served as high water channels that conveyed high amounts of energy and water across the alluvial fan and away from the mainstem Walla Walla River and Mill Creek. The channels run for several miles, accumulating spring flow, before returning back to the River farther down the valley (Figure 4).

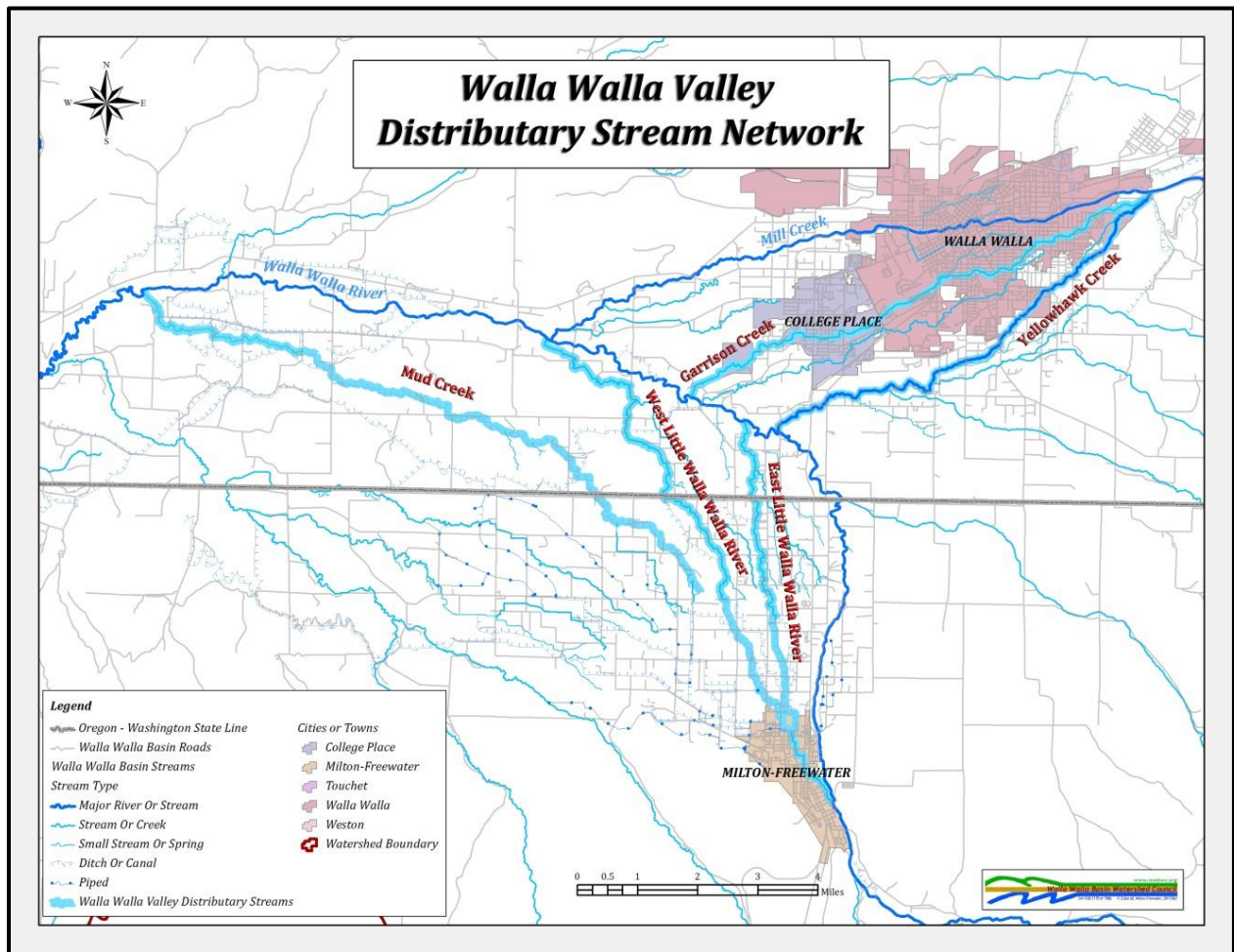


Figure 4 - Map of the distributary stream networks of the Walla Walla River and Mill Creek. Historically these stream networks conveyed winter and spring high flows across the valley’s alluvial fans allowing for reduced flood pressure on the mainstem rivers, provided off-channel habitat and provided recharge to the alluvial aquifer system.

In recent decades the management and development of surface water resources has led to installation of flow control devices (irrigation head gates) at the head of the distributary channels. Over time, the management of the distributary network has become less natural. High flows during the winter and spring no longer have free access to the distributary network and the adjacent floodplains. This, along with the development of groundwater resources and the channelization of the valley’s rivers and creeks, has created a declining alluvial aquifer condition.

Generally, the 'spreading out' of water across the alluvial fans via distributary channels and adjacent floodplains, coupled with the high hydraulic conductivity of the underlying coarse sediment, function as a primary groundwater recharge mechanism for the entire alluvial aquifer. This seasonally recharged aquifer system in-turn feeds the valley's springs, spring creeks and larger streams. This cycling of surface water to groundwater recharge, followed by later discharge in springs and as stream base flow creates a delay in discharge of these waters from the valley. Depending on local conditions, this delay can range from days to months, and even years (Jiménez, 2012).

The declining alluvial aquifer, coupled with high connectivity between surface water and alluvial groundwater, has created stream reaches where high seepage loss occurs and significant volumes of surface water drain to the aquifer (Figure 5 & 6). In recent years, the listing of steelhead and bull trout as threatened under the Endangered Species Act and the reintroduction of spring chinook salmon within the watershed, has led to out-of-court agreements between irrigators and Federal fishery agencies. As a result of these agreements, local irrigators are leaving a portion of their legal water rights instream as bypass water year round. For example, per civil agreement, Gardena Farm Irrigation District #13 (GFID) irrigators leave 18/19 cfs instream (bypass) throughout the year. However, depending on the water-year and a number of other factors, it is not unusual to have a significant portion of the bypass water seep into the underlying aquifer.

Spring fed creeks across the valley, sourced by springs discharging from the alluvial aquifer, have seen declining discharge since the earliest hydrogeologic studies were conducted by Piper (acting on behalf of the US Supreme Court) in the 1930s, Newcomb in the 1960s and Barker and MacNish in the 1970s. Water level declines in the alluvial aquifer since the 1930s and 1940s (Figures 7 & 8) are consistent with the general decline of the related springs (Figure 9). These trends lead one to conclude that there has generally been decreasing groundwater-sourced baseflow over the past several decades contributing to the Walla Walla River and other surface bodies during critical low-flow periods. This loss of groundwater baseflow to streams affects not only the amount of flow in the river but also leads to increased surface water temperature as the cold groundwater derived baseflow is lost.

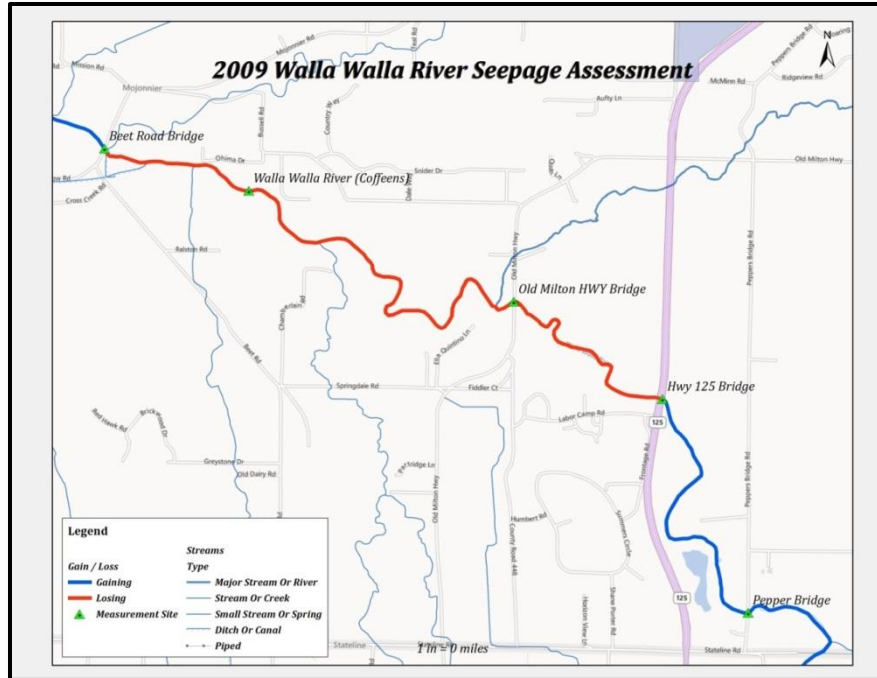


Figure 5 - Results from the water budget analysis of the Walla Walla River in August 2009. Color indicates a given reach as either gaining or losing. Gains indicate groundwater discharging to the river and losses indicate surface water seeping into the ground (see WWBWC, 2012 for details or www.wwbwc.org/monitoring/monitoring-reports.html).

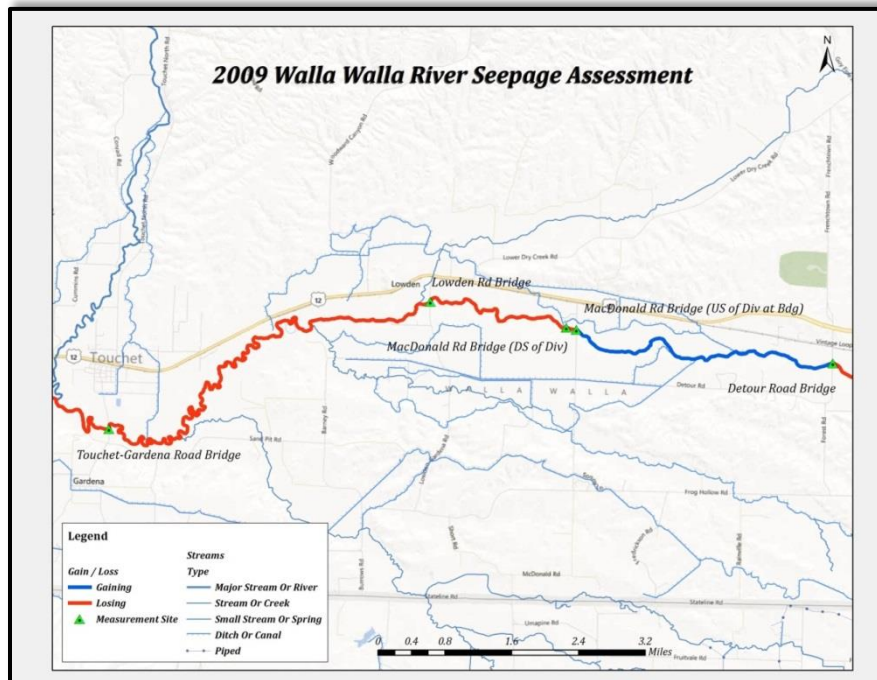


Figure 6 - Results from the water budget analysis of the Walla Walla River in August 2009. Color indicates a given reach as either gaining or losing. Gains indicate groundwater discharging to the river and losses indicate surface water seeping into the ground (see WWBWC, 2012 for details or www.wwbwc.org/monitoring/monitoring-reports.html).

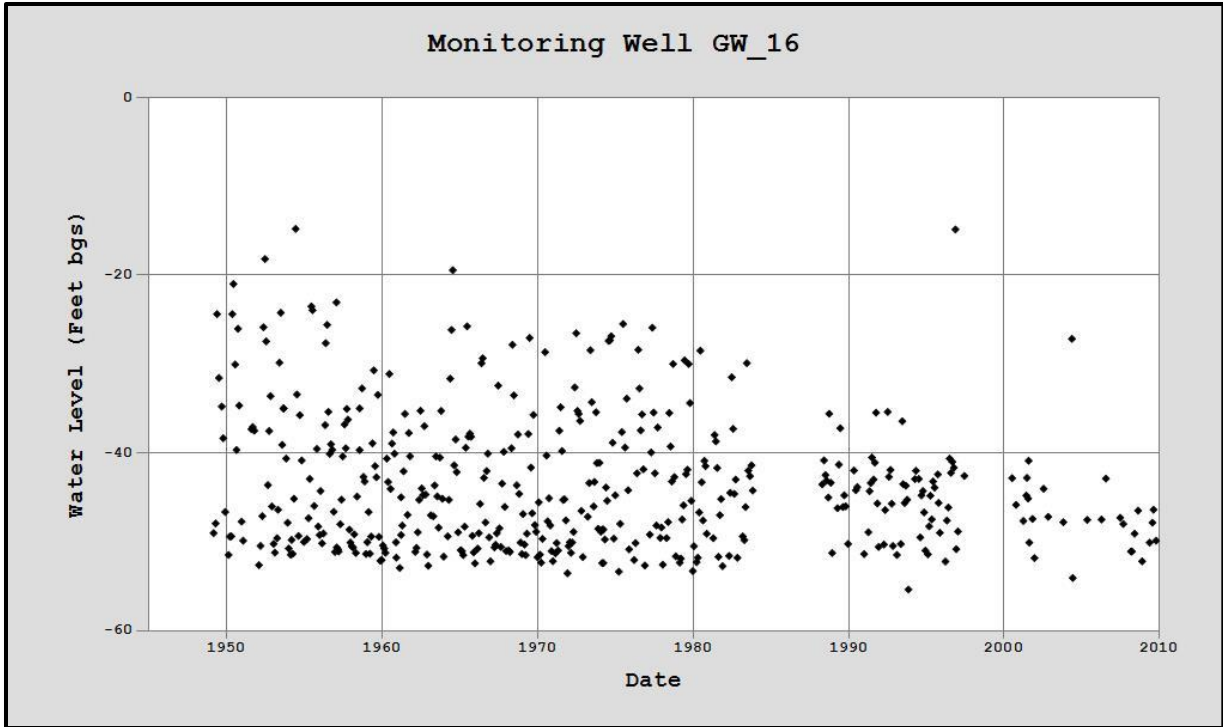


Figure 7 - Hydrograph for Monitoring Well GW_16 showing the long-term decline in the alluvial aquifer system in the Walla Walla Basin.

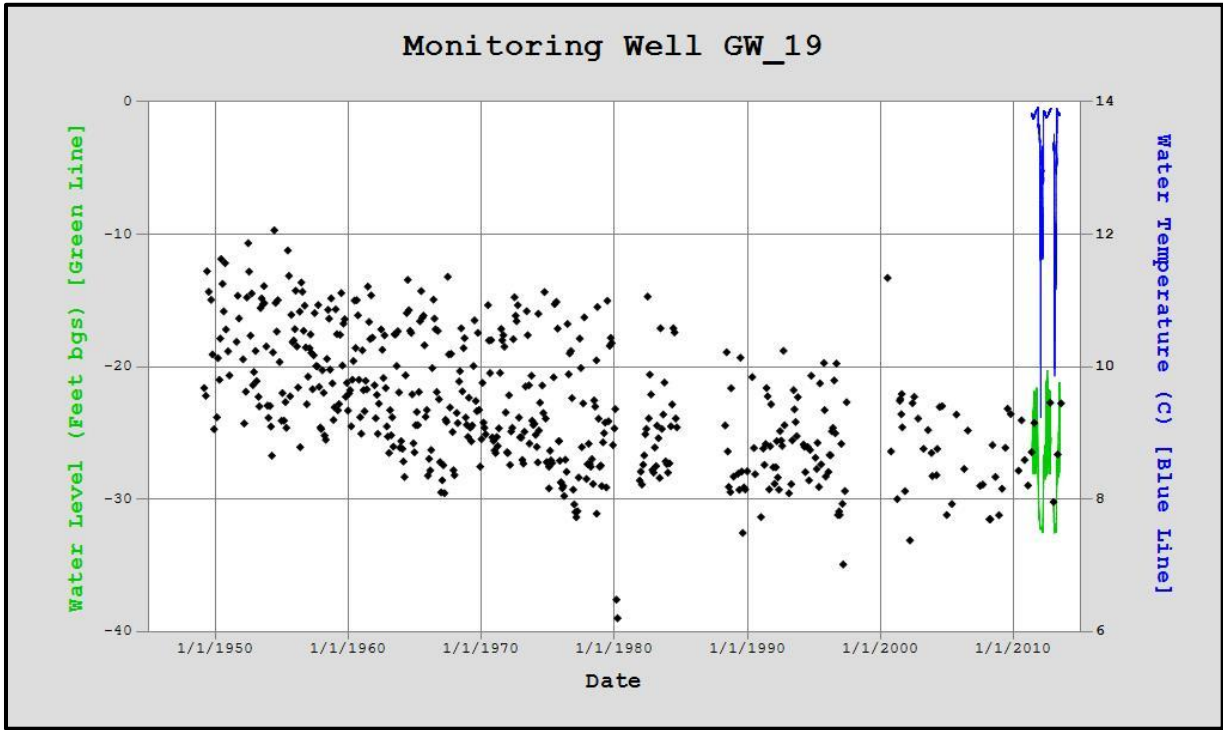


Figure 8- Hydrograph for Monitoring Well GW_19 showing the long-term decline in the alluvial aquifer system in the Walla Walla Basin.

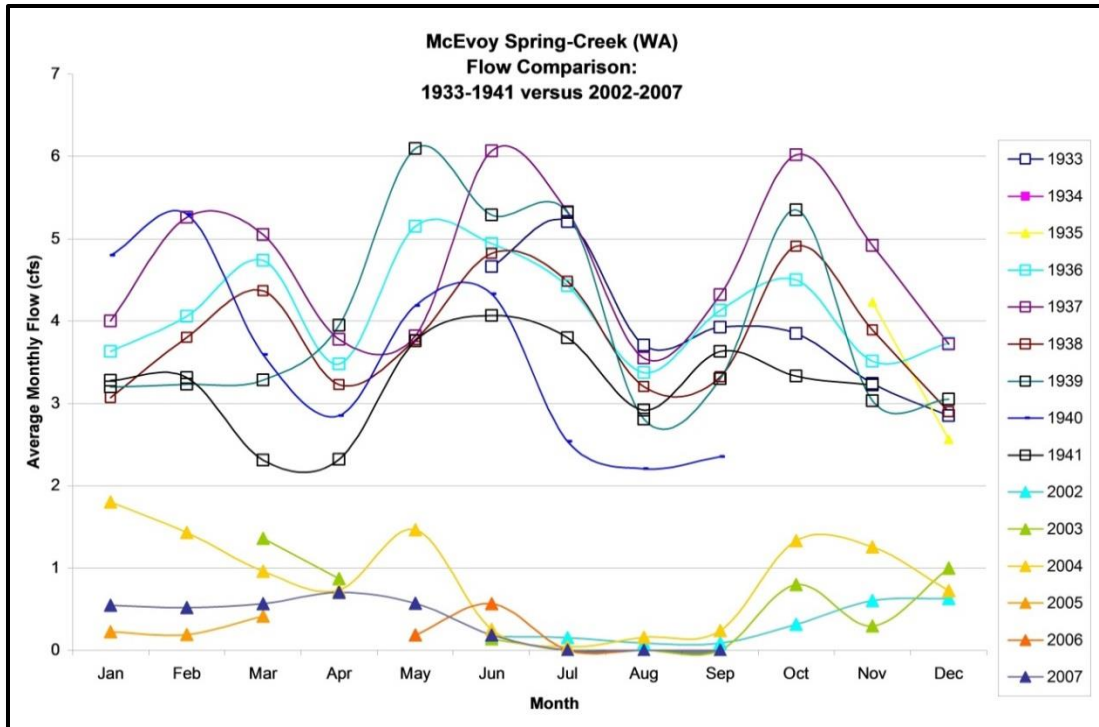


Figure 9 - Hydrograph for McEvoy Spring Creek located just north of the WA-OR state line. Hydrograph shows the decline in spring performance over the last 80 years.

AQUIFER RECHARGE SITES

LOCHER ROAD

The Locher Road site (Figure 10), located at the intersection of Stateline Road and Locher Road, is a former gravel quarry that has been operated by Gardena Farms Irrigation District #13 (GFID) as an aquifer recharge (AR) site since 2007. From 2006-2007 through the end of the 2010-2011 season, approximately 1/3 acre of the 4+ acre site was utilized for recharge. In late 2011, the site was reconstructed to allow infiltration over a 2.5 acre portion of the site (Figures 11-15). Inflow volume rates at the site increased from approximately 1.3 cfs to 3.5+ cfs. Total recharge volumes for the season are described below in the results section.

The Locher Road site has operated under successive one and two-year temporary use authorizations issued by Washington Department of Ecology (WADOE). In addition to the temporary use authorizations, in 2010 the Walla Walla Watershed Management Partnership (WWWMP), a locally led organization that co-manages Walla Walla Basin water resources with the State of Washington, passed a Local Water Plan (LWP) that allows GFID to utilize up to 5 cfs of its existing water right for AR (WWWMP, 2010). This authorization, like the temporary use authorization, is governed by the maintenance of minimum instream flows in the river (measured at the Detour Road gauging station), water quality testing, and hydrologic monitoring in local wells and surface water points. The LWP was modified and re-issued in the summer of 2017.

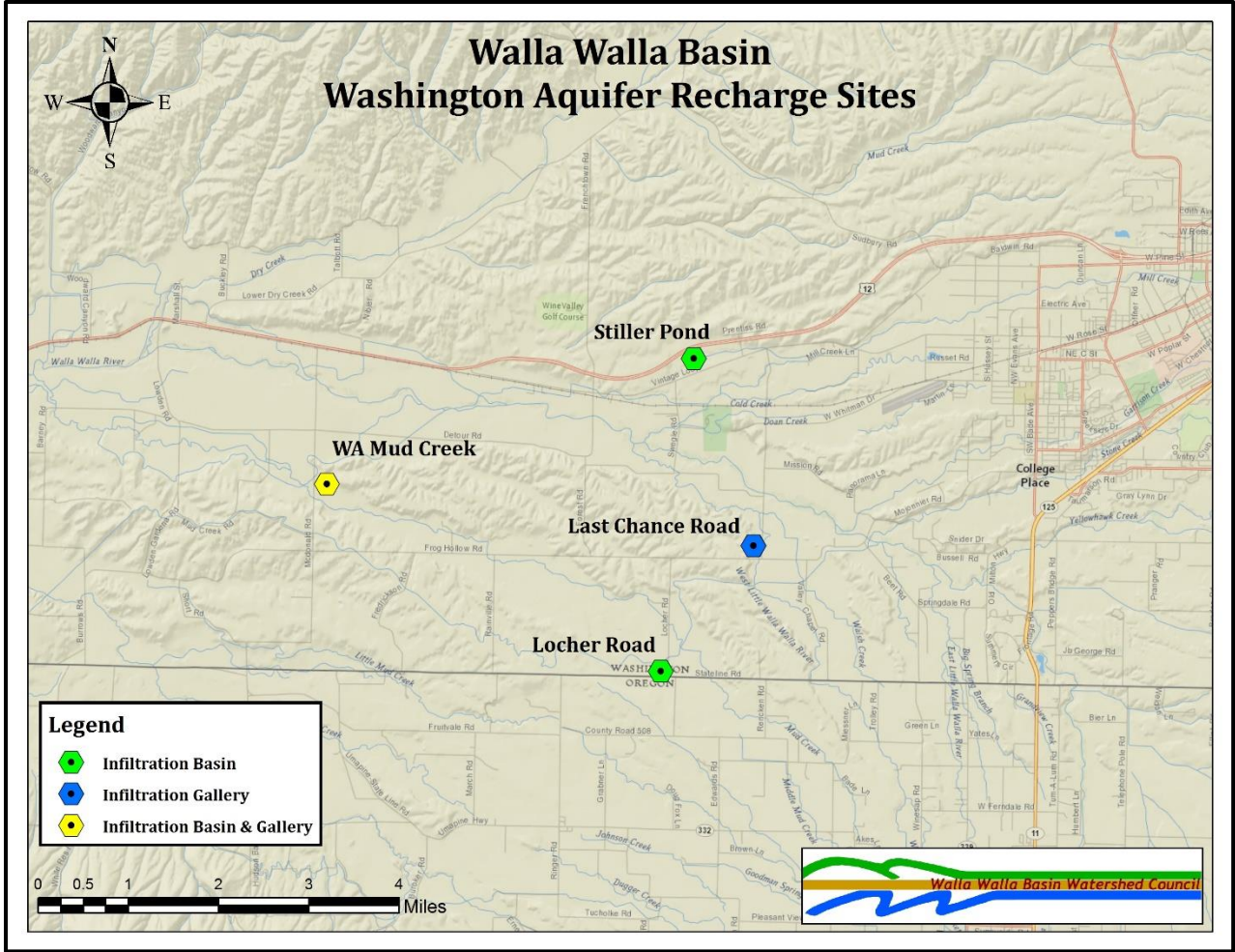


Figure 10 – Walla Walla Basin Washington Aquifer Recharge Sites.

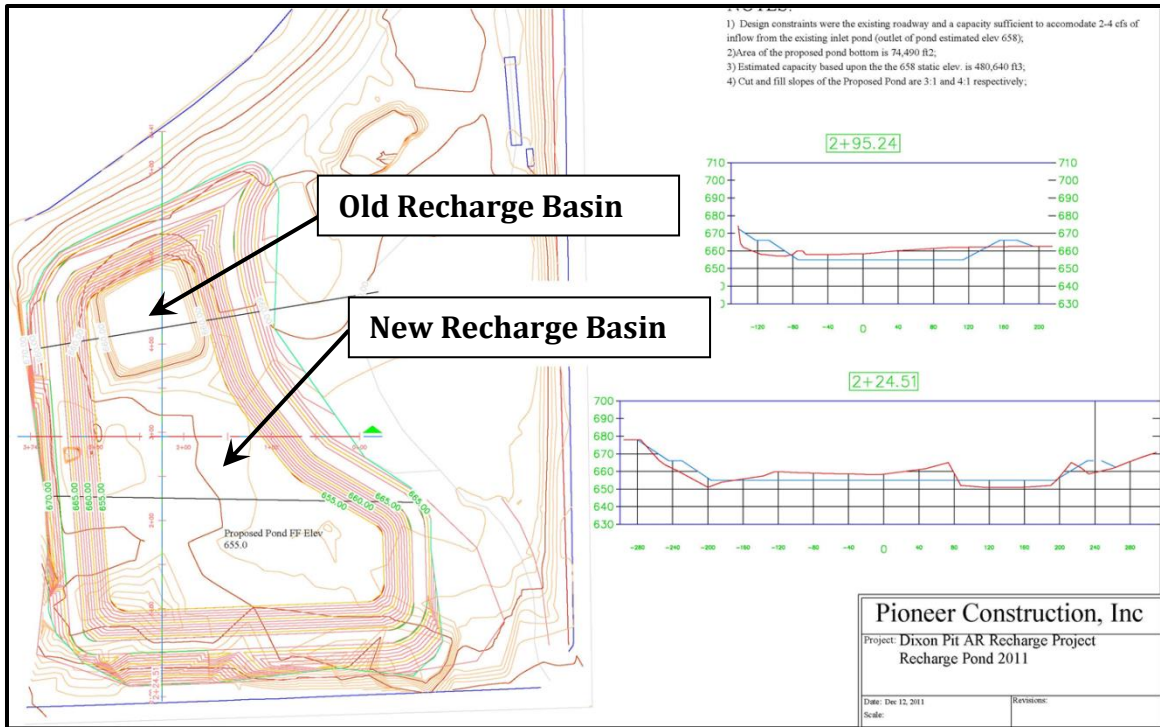


Figure 11 - Preliminary design for expansion of the Locher Road site's main recharge basin in late 2011.



Figure 12 - Photo during expansion of the Locher Road site's main recharge basin, December 2011.



Figure 13 - Photo of the completed expansion of the Locher Road site's main recharge basin, December 2011.



Figure 14 - Photo of the Locher Road aquifer recharge site during operations.

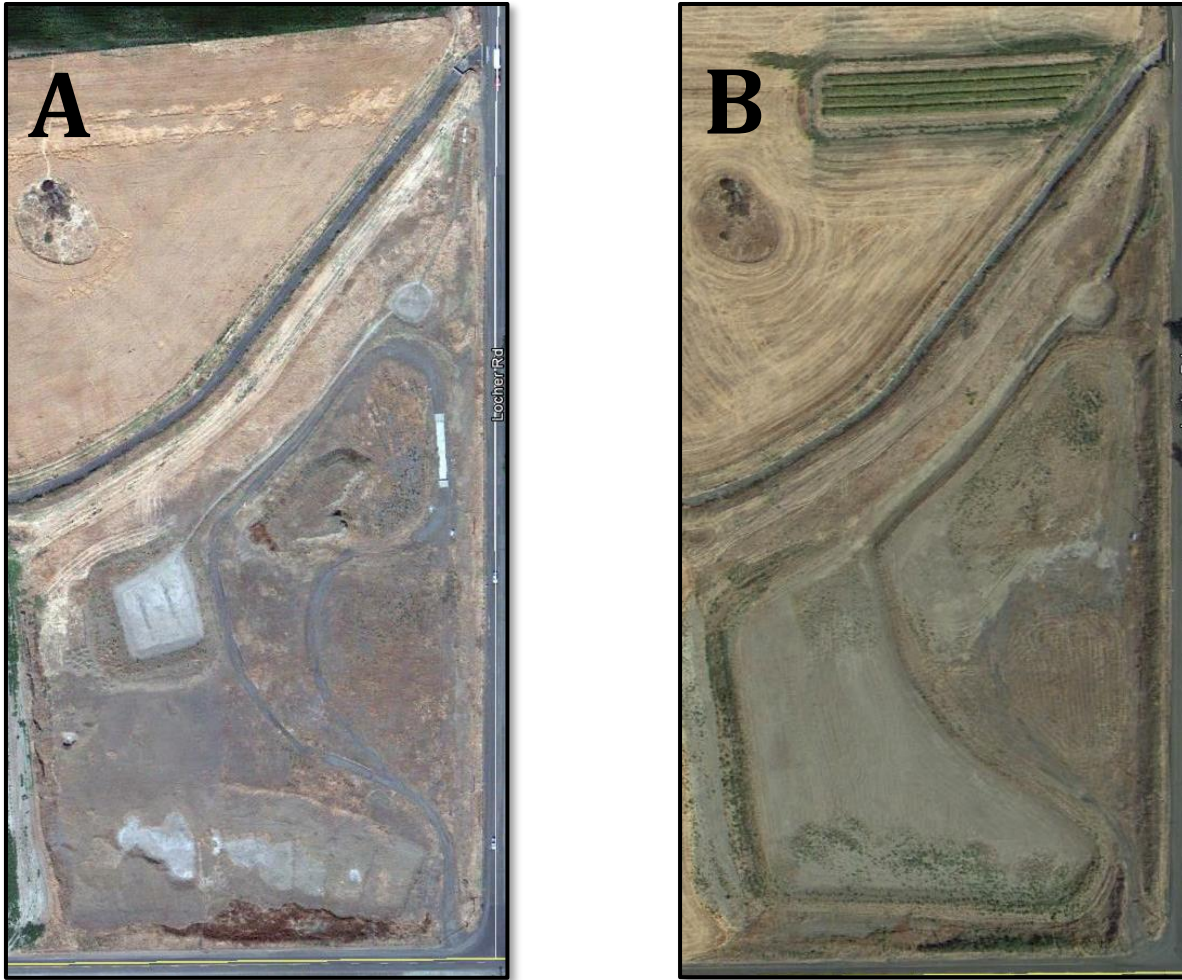


Figure 15 - Aerial photographs showing the Locher Road site before (A) and after (B) the expansion that occurred in December 2011. The diversion and settling pond were not changed. During the expansion work, the ditch from the diversion flume to the settling pond was reinforced with additional rock and the main recharge basin was expanded from approximately 1/3 of an acre to approximately 2.5 acres.

STILLER POND

In 2012 the WWBWC and the Walla Walla County Conservation District (WWCCD) partnered to develop the Stiller Pond AR site (Figure 10 & 16). This site is currently operated under a Local Water Plan with the Walla Walla Watershed Management Partnership (WWWMP) to recharge up to 32 acre-feet of the landowners existing water right via a dry pond located on the Schwenke property, within the lower Mill Creek drainage. Additional authorization for an Environmental Enhancement Project (EEP) was issued in early 2014. This additional authorization allows for diversion of up to 991 acre-feet of water from Mill Creek to the Stiller Pond for AR.

In its current configuration the Stiller Pond site can recharge approximately 1-2 cfs depending upon other demands from the diversion system. Like the Locher Road site, this authorization requires minimum instream flow to be met at two gages on Mill Creek and at the WADOE Walla Walla River gauging station at Detour Road and additional hydrologic monitoring and water quality analysis (GSI, 2012, WWBWC, 2013 and WWBWC, 2015).



Figure 16 - Stiller Pond Aquifer Recharge site during operations.

LAST CHANCE ROAD

The Last Chance Road site was constructed in June 2015 (Figure 10, 17 and 18). The site did not operate during the 2015, 2016 or 2017 recharge seasons, but is ready for future operations. The site includes two recharge features, an infiltration gallery and a new open ditch along the hillside. The project also installed a fish screen on a diversion from the West Little Walla Walla River. This site is currently permitted under a Local Water Plan with the Walla Walla Watershed Management Partnership (WWWMP) to recharge up to 250 acre-feet per year from November 1-May 30. Minimum instream flows (1 cfs) for the site will be measured at the WWBWC's gauge on the West Little Walla Walla River at Swegle Road (S-227). In its current configuration, the Last Chance Road site can recharge up to 1 cfs of water from the West Little Walla Walla River. If the site operates in the future, an Environmental Enhancement Project permit may be sought for the site (WWWMP, 2014).



Figure 17 - Infiltration gallery area for the Last Chance Road Aquifer Recharge site.



Figure 18 - Irrigation ditch, fish screen and intake (back left) for the Last Chance Road Aquifer Recharge site.

WA MUD CREEK

The WA Mud Creek site was constructed in the fall of 2015, but has not operated yet (Figures 10 & 19). The site encompasses two recharge areas with water delivered via two separate irrigation ditches. The first recharge area can be supplied by the Gardena Farms Canal on the south side of the property. Water from this canal can feed into an infiltration gallery in a draw up-gradient of Mud Creek (Figure 19). The second recharge area can be supplied by the Lowden #2 ditch on the northern side of the property. Water from this ditch can feed into an infiltration field within an existing pasture. The pasture will be reconfigured to enhance infiltration as much as possible. This site is currently permitted under a Local Water Plan with the Walla Walla Watershed Management Partnership (WWWMP) to recharge up to 783.7 acre-feet per year from November 1-May 30. The designed recharge areas are estimated to recharge approximately 1.5-2 cfs between the two sites. If the site operates in the future, an Environmental Enhancement Project permit may be sought for the site (WWWMP, 2014a).



Figure 19 - Photo of the WA Mud Creek Aquifer Recharge site under construction. The photo shows the excavated trenches for the infiltration gallery on the south side of Mud Creek.

WATER YEAR 2017 RECHARGE SEASON RESULTS

LOCHER ROAD

OVERVIEW

During the WY2017 recharge season, the Locher Road site did not operate due to the expiration of the Local Water Plan that authorized water to be delivered. The LWP was updated and authorized in June 2017 allowing for future operations to occur.

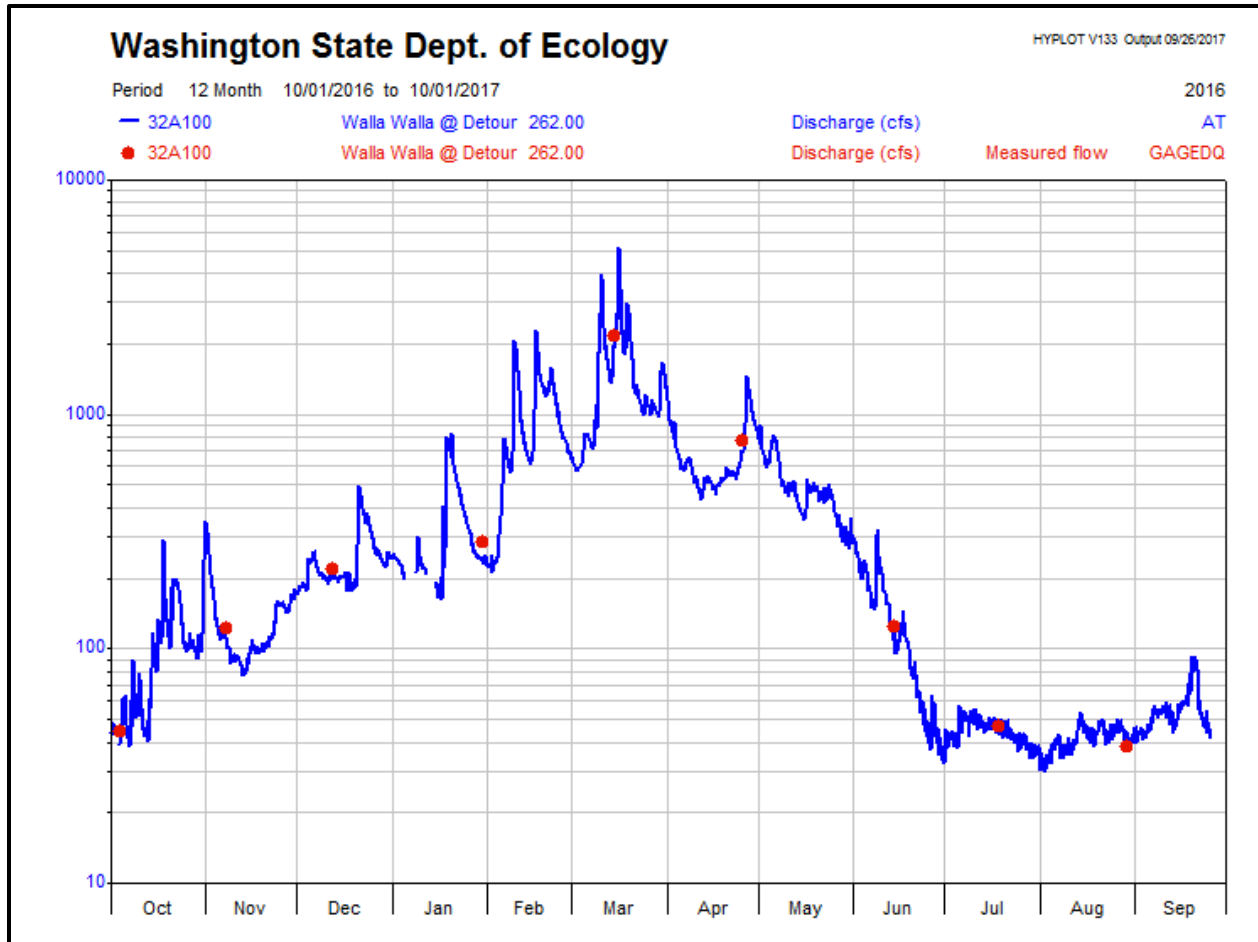


Figure 20 – Water Year 2017 hydrograph for Washington Department of Ecology's Walla Walla River at Detour Road (32A100) gage.

ALLUVIAL WELL RESPONSES

Groundwater monitoring (Figure 21 & 22) at the Locher Road site includes four “on-site” monitoring wells (GW_57, GW_70, GW_71 and GW_72), three down-gradient monitoring wells (GW_108, GW_110 and GW_122) and two down-gradient irrigation wells (GW_103 and GW_104). The four on-site wells surround the site with GW_70 in the up-gradient direction, GW_72 and GW_57 immediately down-gradient of the site and GW_71 farther down-gradient. Wells 70, 71 and 72 are shallow alluvial aquifer monitoring wells that were drilled in 2005 to monitoring site operations and aquifer response while well 57 was drilled in 1972-73 to be fully open to the entire gravel sequence. The on-site monitoring wells all show a similar response to canal operations (Figures 23-26). Water levels rise in early October with the start of the Gardena Farms Canal for fall irrigation. The canal was turned off in early. Starting in early December water levels show neutral to slightly increasing conditions until the canal turned on again in early February. Groundwater levels increase slowing over the spring irrigation season. Water levels start to decline as canal operations are reduced and eventually shut down in early summer. Down-gradient wells typically show a similar response, but the response is either muted or delayed (Figures 27-29). One of the offsite, distal, monitoring wells, GW_108, also shows the influence of nearby groundwater pumping on alluvial aquifer water levels starting in late May and continuing until mid-August.

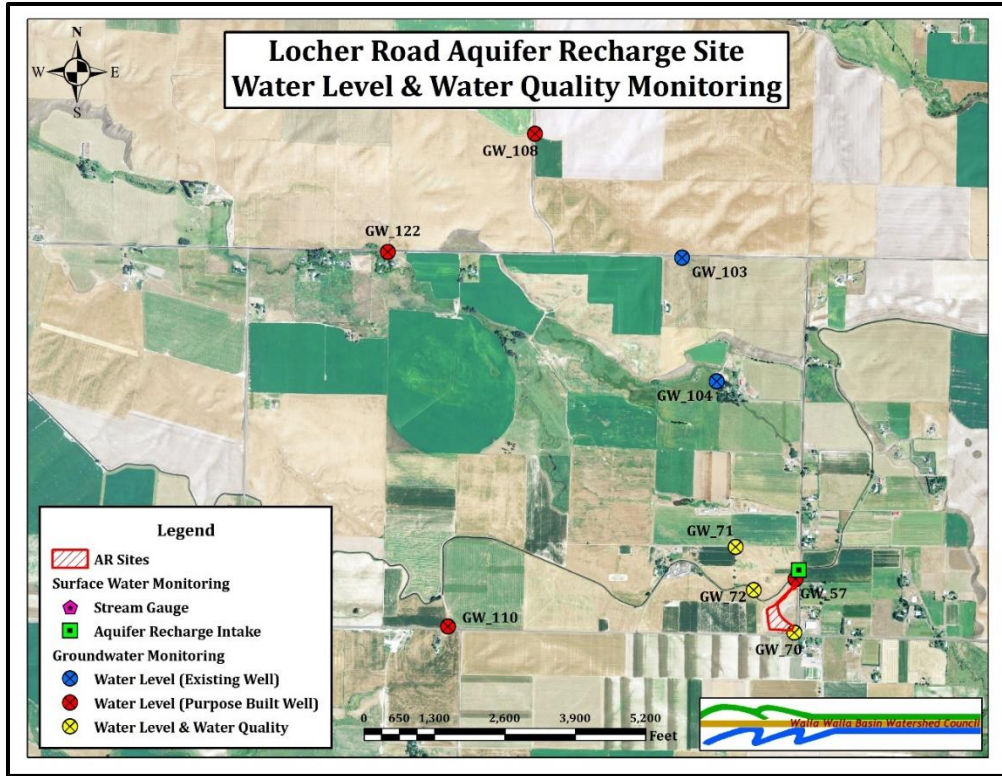


Figure 21 – Map showing groundwater monitoring sites for the Locher Road Aquifer Recharge Site.

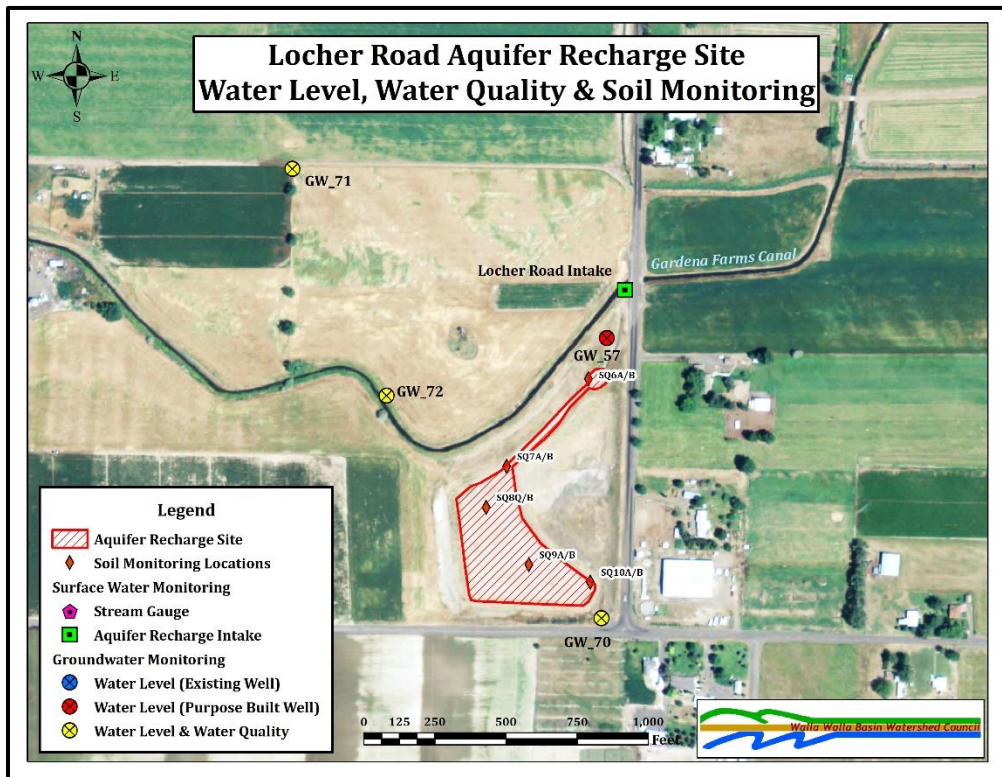


Figure 22 - Map showing groundwater, surface water and soil monitoring locations for the Locher Road site.

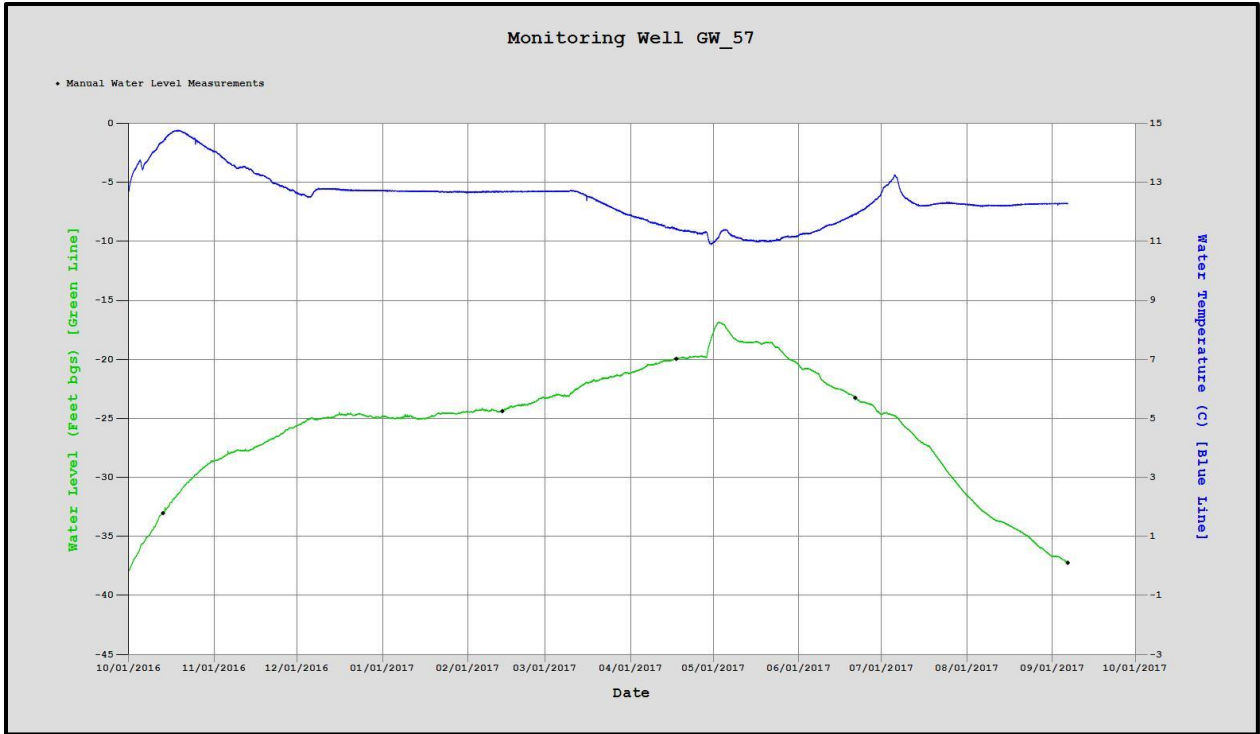


Figure 23 - Hydrograph for GW_57 during the WY 2017 recharge season.

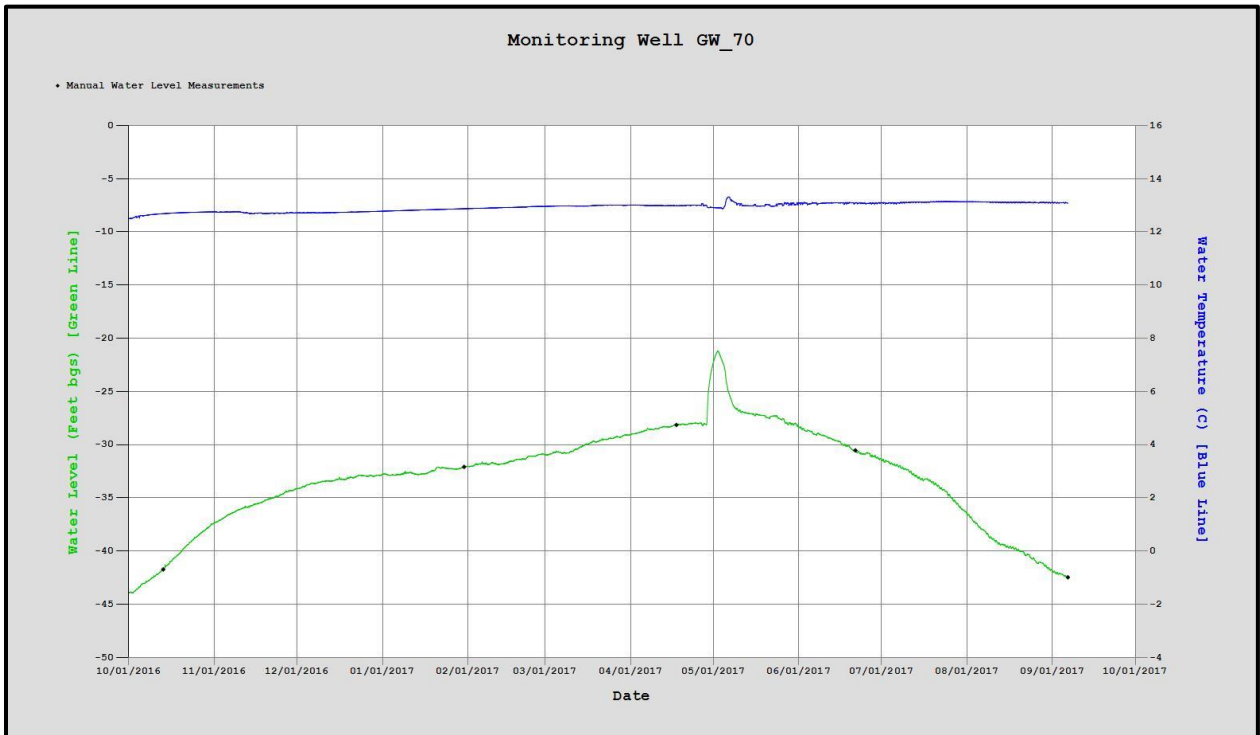


Figure 24 - Hydrograph for GW_70 during the WY 2017 recharge season.

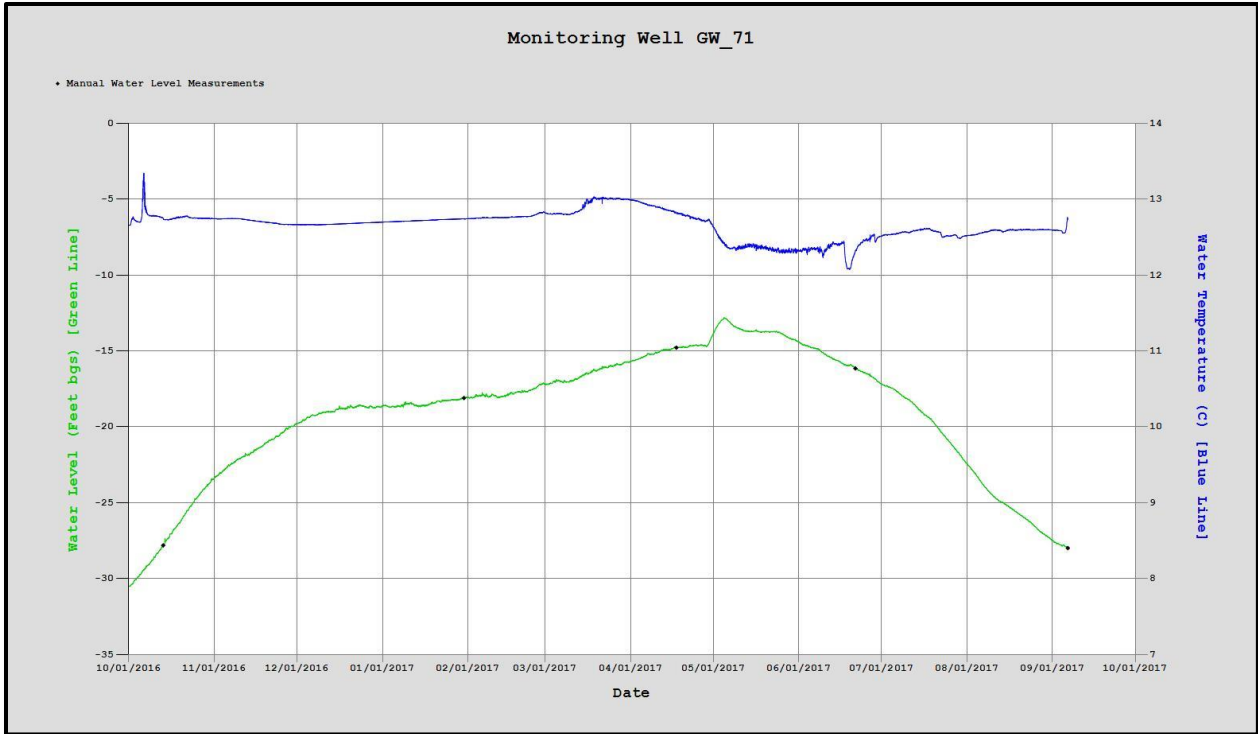


Figure 25 - Hydrograph for GW_71 during the WY 2017 recharge season. The pressure transducer failed sometime before early February, 2017.

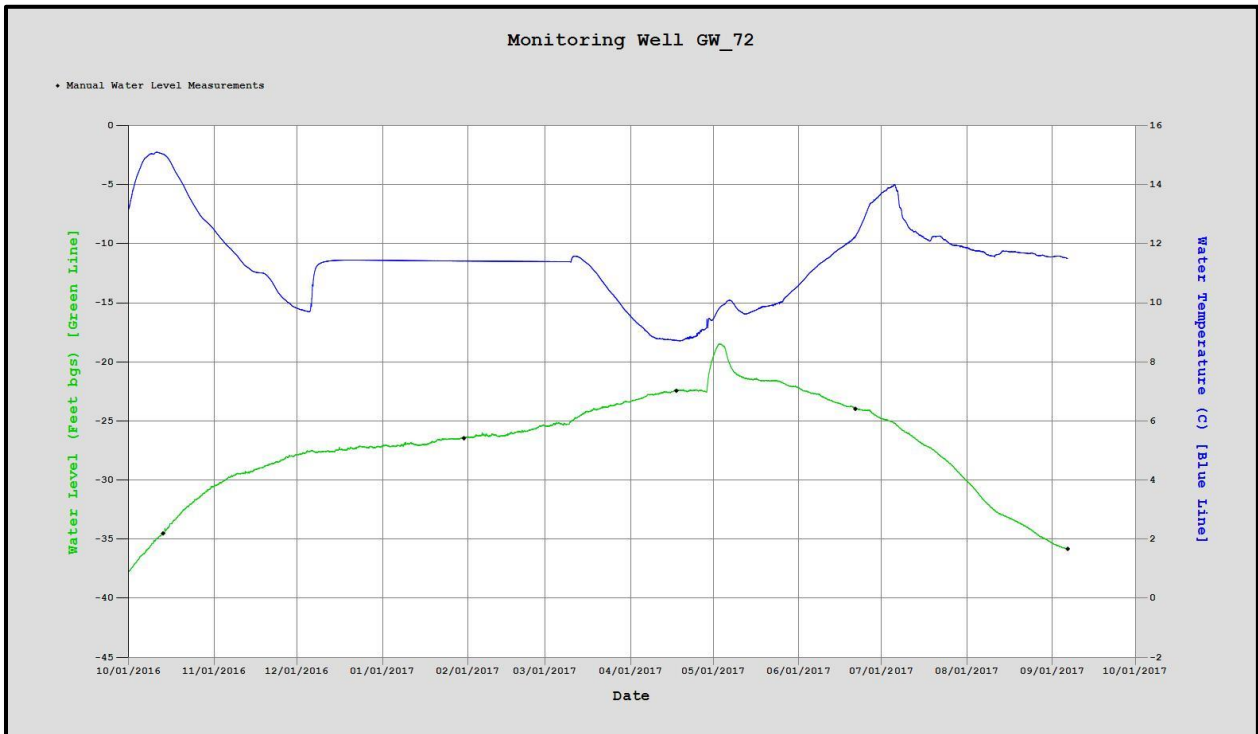


Figure 26 - Hydrograph for GW_72 during the WY 2017 recharge season.

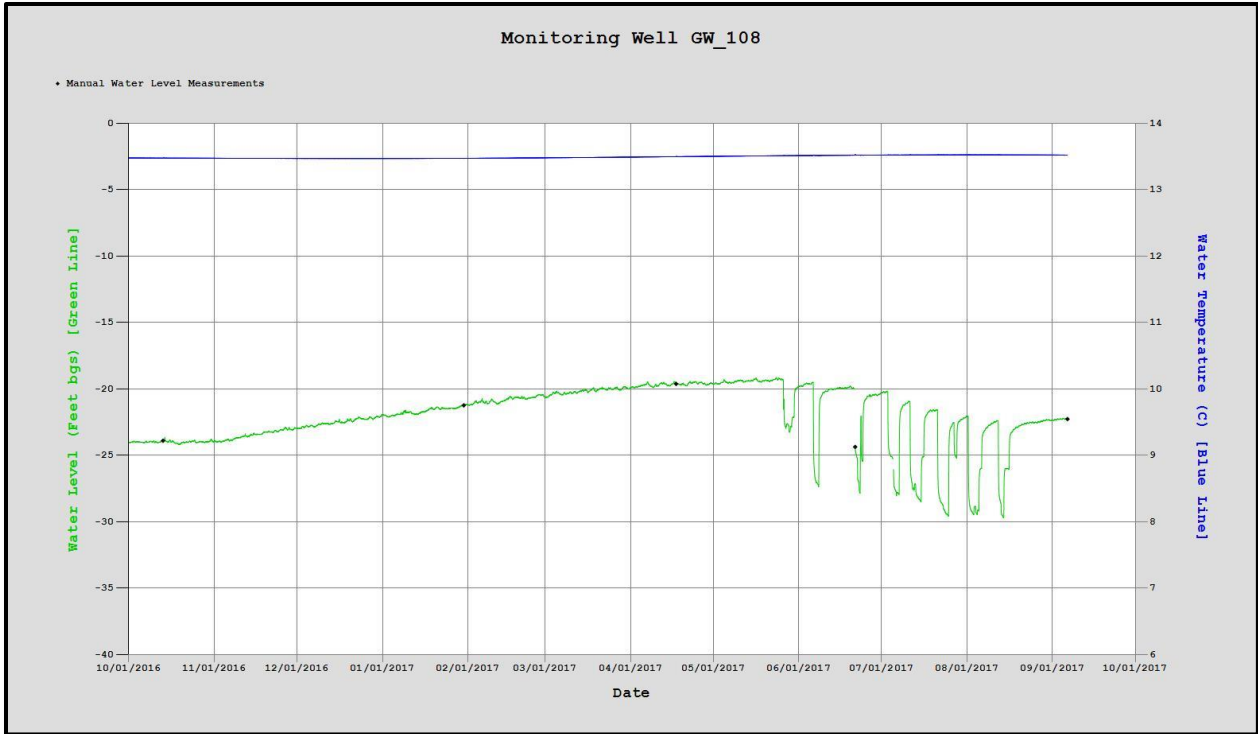


Figure 27 - Hydrograph for GW_108 during the WY 2017 recharge season. The pressure transducer failed sometime in before mid-february.

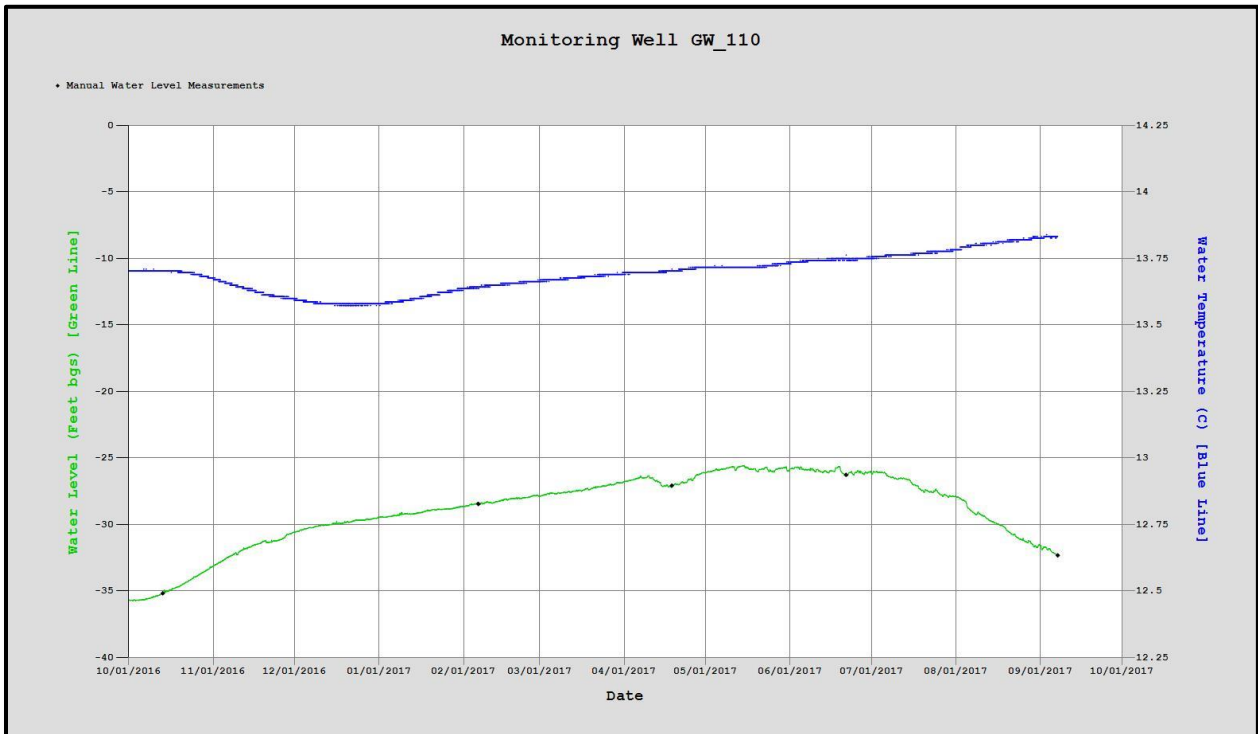


Figure 28 - Hydrograph for GW_110 during the WY 2017 recharge season.

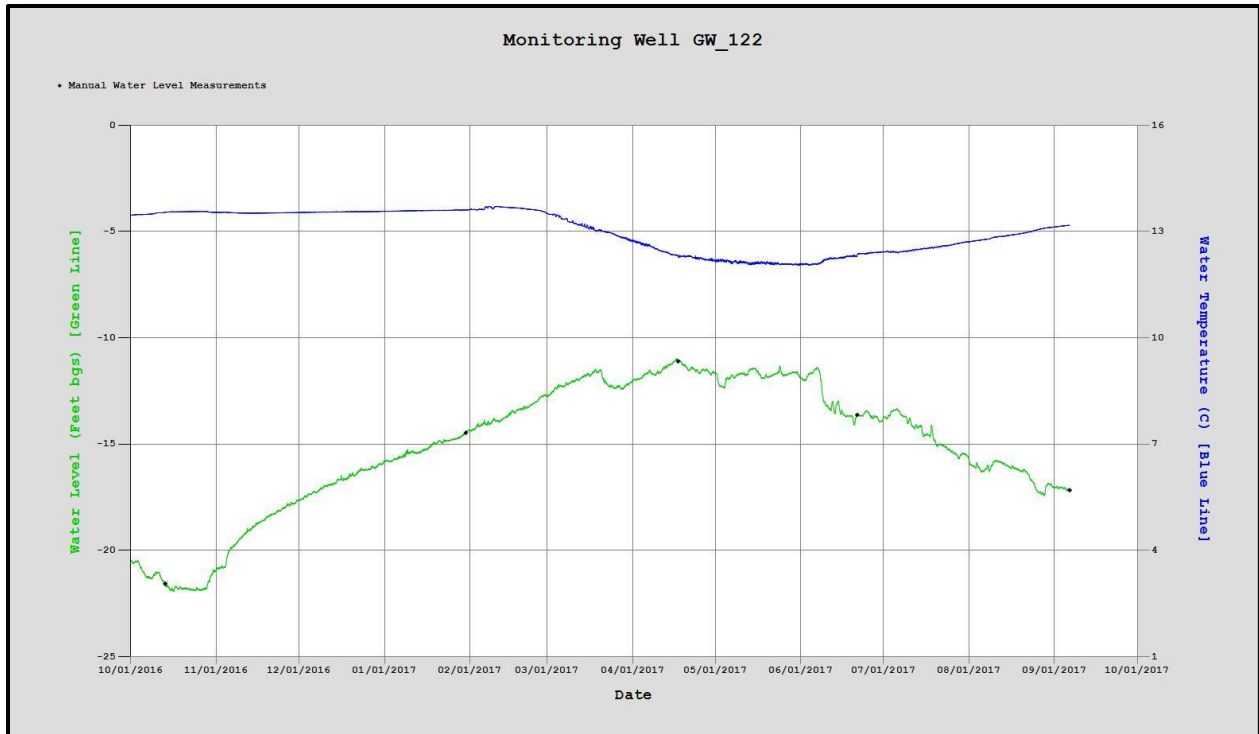


Figure 29 - Hydrograph for GW_122 during the WY 2017 recharge season.

WATER QUALITY

Because the Locher Road site did not operate, water quality samples were not collected during the WY2017 recharge season.

SOIL QUALITY

Because the Locher Road site did not operate, soil quality samples were not collected during the WY2017 recharge season.

STILLER POND

OVERVIEW

The WWCCD operated the Stiller Pond Aquifer Recharge site during the WY2017 recharge season. WWBWC staff collected groundwater and surface water monitoring data, including water and soil quality samples while WWCCD operated the site and collected inflow data. The Stiller Pond site operated under the WWMP Local Water Plan LW-10-02 which allows 32 acre-feet to be recharged to the shallow alluvial aquifer and the EEP temporary authorization for up to 991 acre-feet. Minimum in-stream flows did prevent the site from operating during portions of the WY2017 season from early April until shutdown in May (Figures 30, 33-36). Mill Creek was monitored at two locations, above the site at Wallula Road (Figure 30) and below the site at Swegle Road (Figure 31). During the WY2017 recharge season 279 acre-feet of water was delivered to the site.

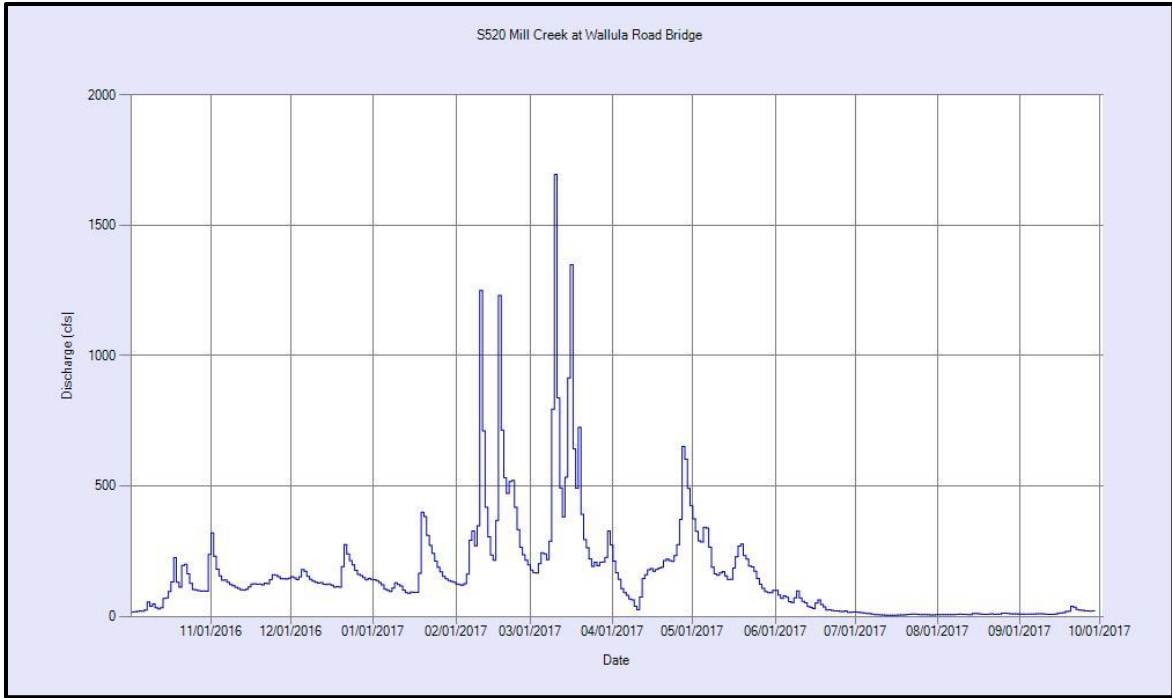


Figure 30 - 2017 hydrograph for WWBWC's Mill Creek at Wallula Road (S520) gage.

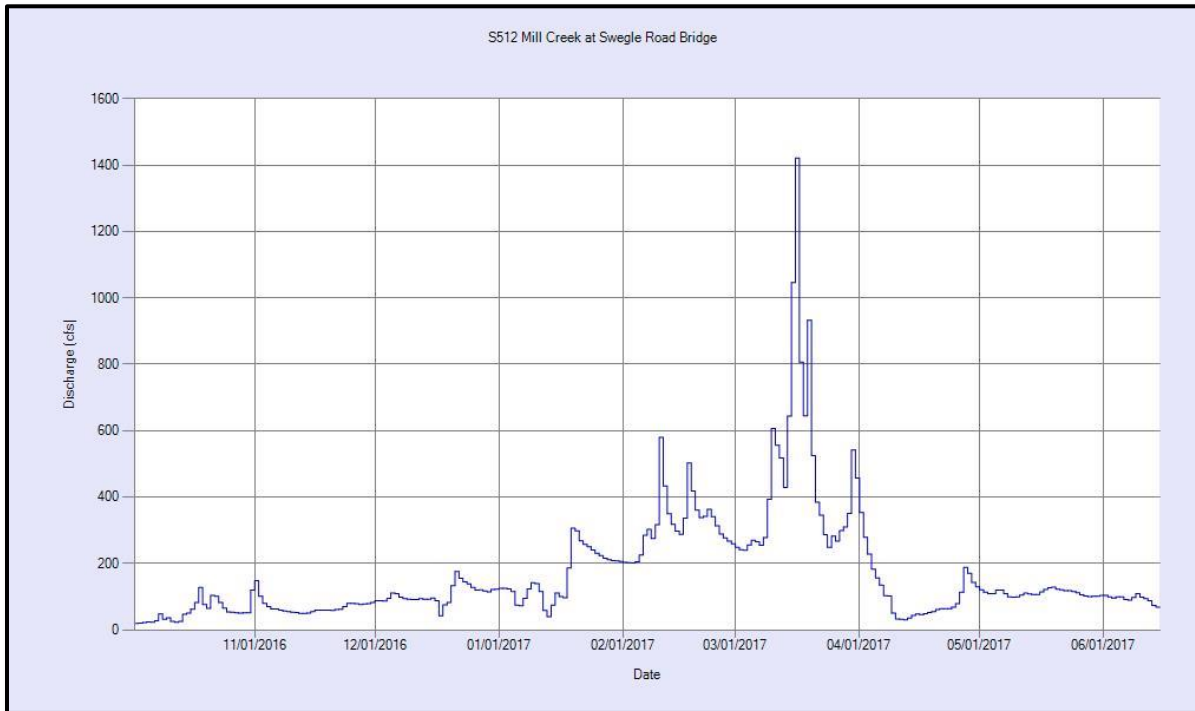


Figure 31 - 2017 hydrograph for WWBWC's Mill Creek at Swegle Road (S512) gage. Note, this site only operated from October 2016 to mid-June 2017. Channel changes and excessive gravel deposition at this gage location made rating curve development difficult during the 2017 water year.

ALLUVIAL WELL RESPONSES

Groundwater monitoring (Figure 32) at the Stiller Pond site includes four on-site monitoring wells (GW_136, GW_145, GW_146 and GW_147). The four on-site wells surround the site with GW_147 up-gradient, GW_136 immediately down-gradient of the site and GW_145 and GW_146 farther down-gradient. All of the on-site wells are purpose-built monitoring wells. All of the on-site wells show a similar response during and after recharge operations (Figures 33-36). Water levels start to rise coinciding with the start of recharge operations in mid-January. Water levels appear to peak in late March or early April coinciding with the interrupted recharge operations due to low instream flows. After recharge operations ended in mid-May water levels start a slow decline throughout the summer months. See summary section for additional details on Stiller Pond groundwater responses.

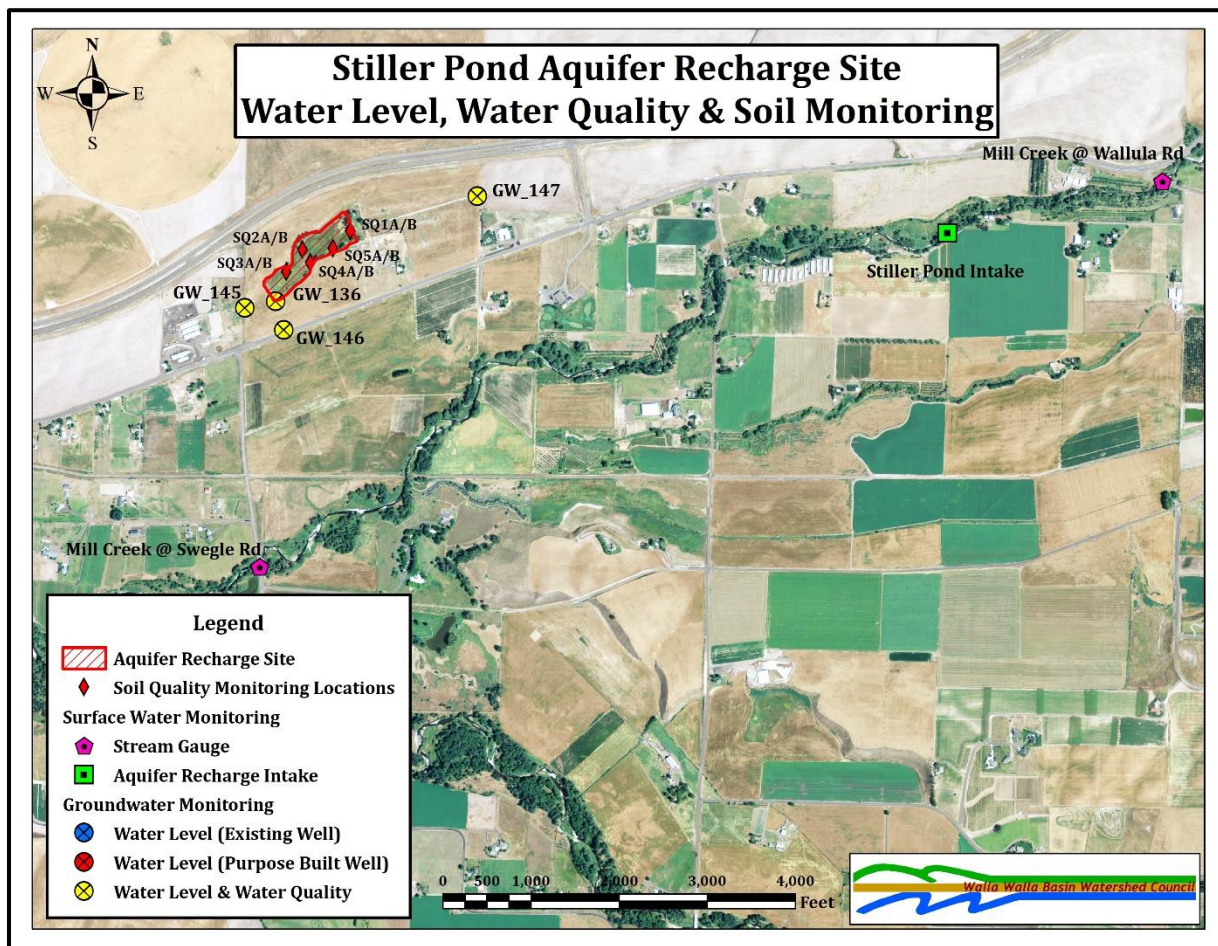


Figure 32 - Map showing groundwater, surface water and soil monitoring sites for the Stiller Pond Aquifer Recharge Site.

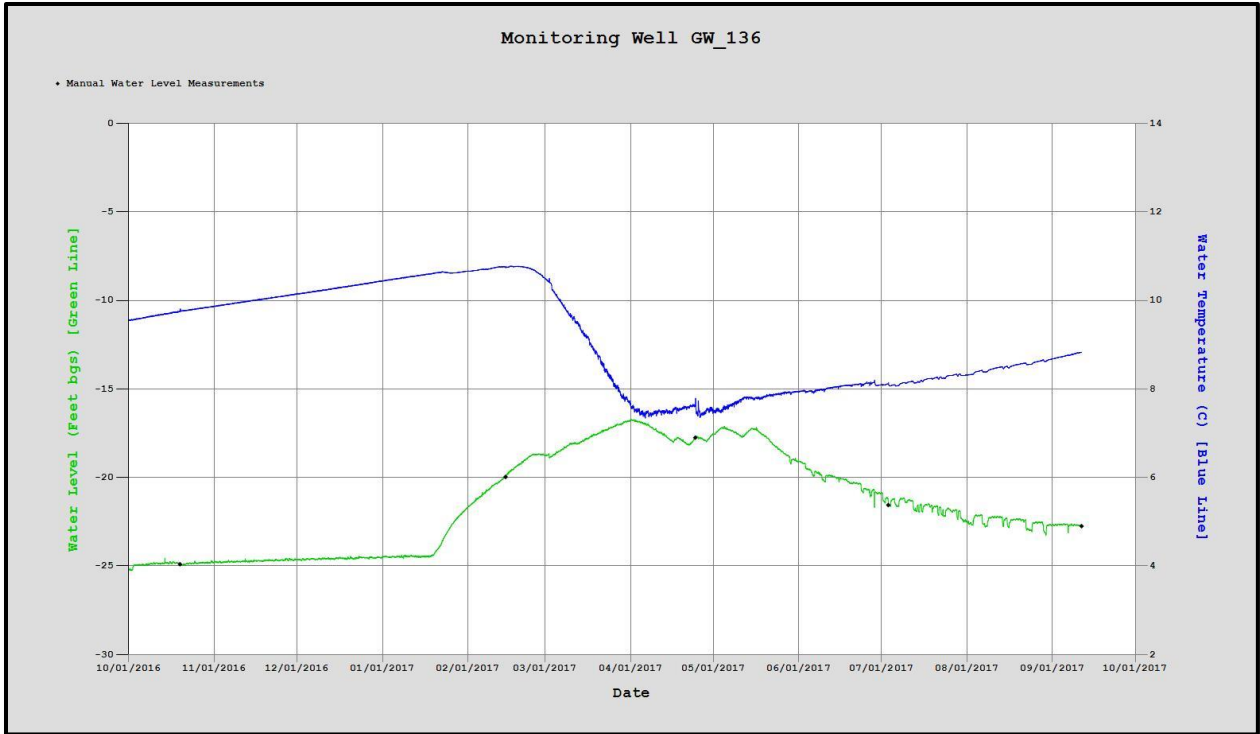


Figure 33 - Hydrograph for GW_136 during the WY 2017 recharge season.

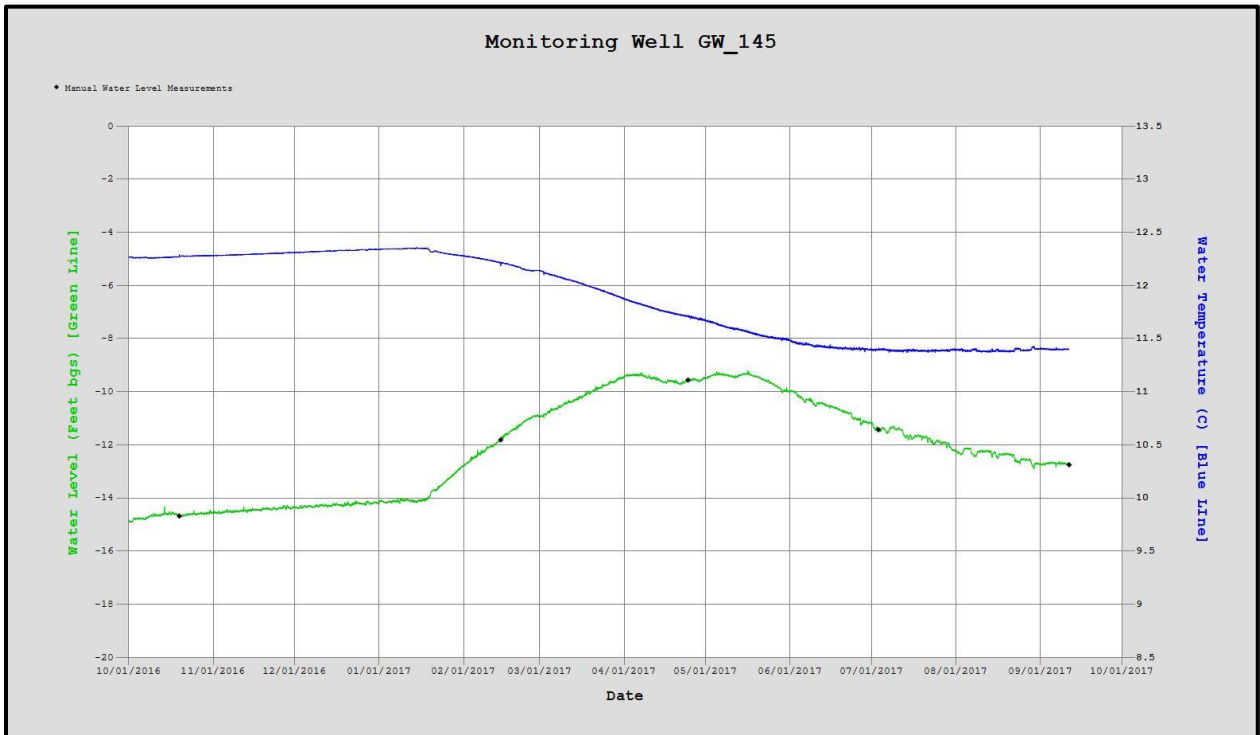


Figure 34 - Hydrograph for GW_145 during the WY 2017 recharge season.

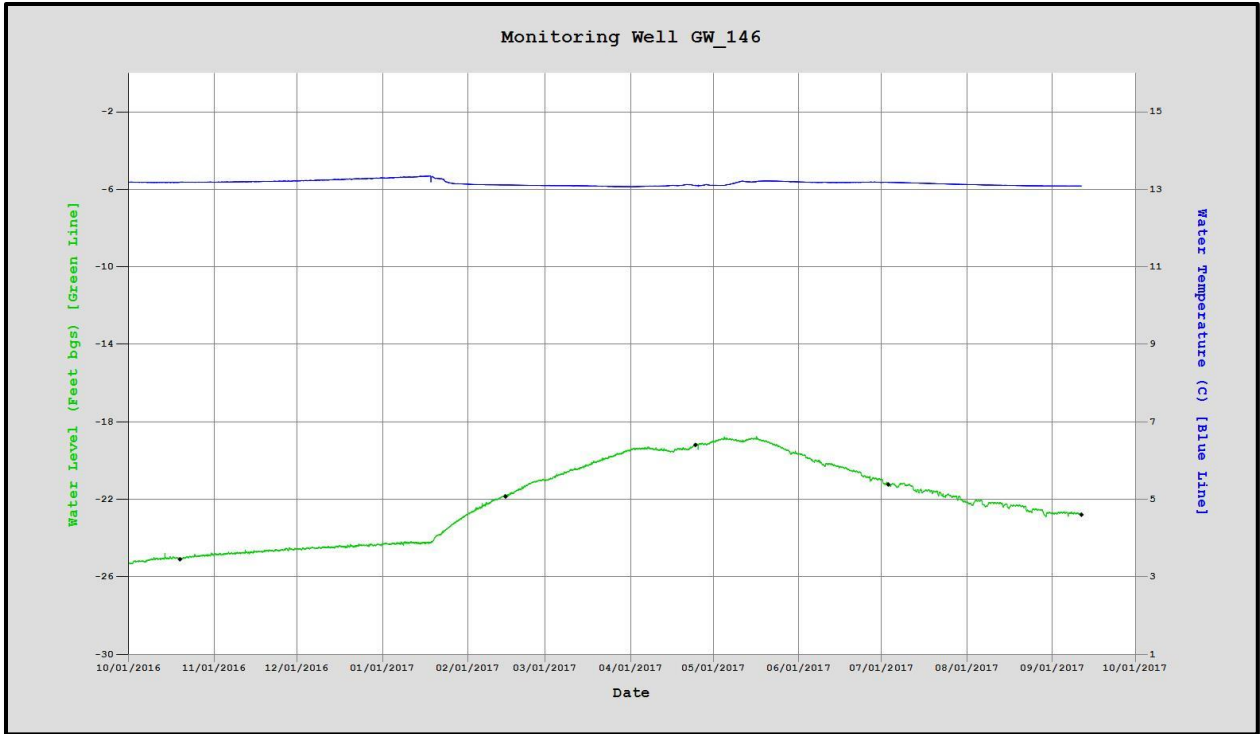


Figure 35 - Hydrograph for GW_146 during the WY 2017 recharge season.

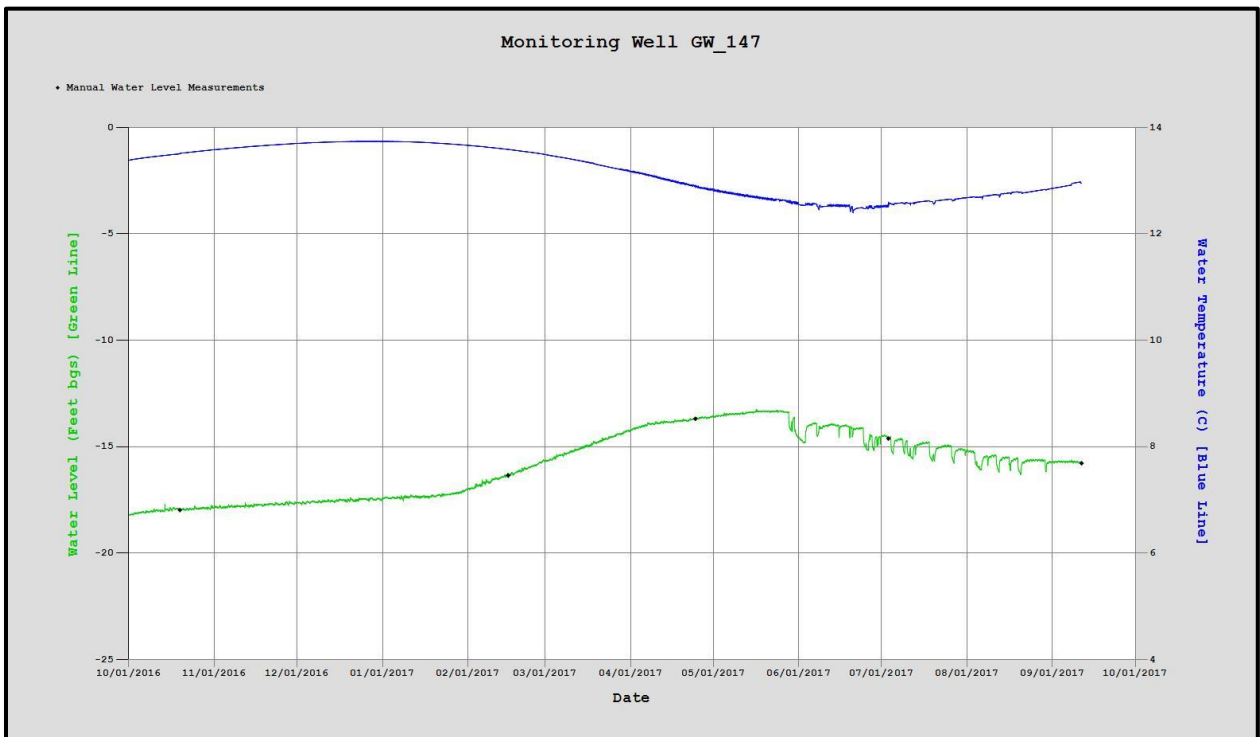


Figure 36 - Hydrograph for GW_147 during the WY 2017 recharge season.

WATER QUALITY

Full water quality data and laboratory QA records can be found in Appendix B.

SOURCE WATER

| Sample Parameter | March 2 nd , 2017 | April 25 th , 2017 | June 28 th , 2017 |
|----------------------------------|------------------------------|-------------------------------|------------------------------|
| Nitrate | 1.45 | 0.5 | 2.13 |
| Ortho-Phosphate (mg/L) | 0.13 | 0.30 | 0.16 |
| Total Dissolved Solids (mg/L) | 99 | 83 | 155 |
| Iron (mg/L) | 0.22 | 0.16 | 0.12 |
| Total Phosphorus (mg/L) | 0.145 | 0.097 | 0.166 |
| Polychlorinated Biphenyls (pg/L) | 43.9 | 113 | 85.6 |

UP-GRADIENT WELL (GW_147)

| Sample Parameter | March 2 nd , 2017 | April 25 th , 2017 | June 28 th , 2017 |
|----------------------------------|------------------------------|-------------------------------|------------------------------|
| Nitrate | 4.36 | 4.49 | 4.98 |
| Ortho-Phosphate (mg/L) | 0.19 | 0.50 | 0.17 |
| Total Dissolved Solids (mg/L) | 263 | 258 | 282 |
| Iron (mg/L) | 0.03 | ND | 0.05 |
| Total Phosphorus (mg/L) | 0.179 | 0.16 | 0.153 |
| Polychlorinated Biphenyls (pg/L) | 720 | 716 | 180 |

MID-GRADIENT WELL (GW_136)

| Sample Parameter | March 2 nd , 2017 | April 25 th , 2017 | June 28 th , 2017 |
|----------------------------------|------------------------------|-------------------------------|------------------------------|
| Nitrate | 0.58 | 0.51 | 0.72 |
| Ortho-Phosphate (mg/L) | 0.24 | 0.43 | 0.21 |
| Total Dissolved Solids (mg/L) | 155 | 147 | 173 |
| Iron (mg/L) | 0.26 | ND | 0.05 |
| Total Phosphorus (mg/L) | 0.290 | 0.292 | 0.294 |
| Polychlorinated Biphenyls (pg/L) | 545 | 403 | 146 |

DOWN-GRADIENT WELL (GW_145)

| Sample Parameter | March 2 nd , 2017 | April 25 th , 2017 | June 28 th , 2017 |
|----------------------------------|------------------------------|-------------------------------|------------------------------|
| Nitrate | 3.44 | 2.69 | 2.95 |
| Ortho-Phosphate (mg/L) | 0.15 | 0.45 | 0.14 |
| Total Dissolved Solids (mg/L) | 268 | 241 | 318 |
| Iron (mg/L) | 0.06 | 0.06 | ND |
| Total Phosphorus (mg/L) | 0.141 | 0.196 | 0.125 |
| Polychlorinated Biphenyls (pg/L) | 481 | 561 | 57.2 |

DOWN-GRADIENT WELL (GW_146)

| Sample Parameter | March 2 nd , 2017 | April 25 th , 2017 | June 28 th , 2017 |
|----------------------------------|------------------------------|-------------------------------|------------------------------|
| Nitrate | 7.49 | 4.52 | 9.91 |
| Ortho-Phosphate (mg/L) | 0.12 | 0.44 | 0.11 |
| Total Dissolved Solids (mg/L) | 361 | 296 | 515 |
| Iron (mg/L) | 0.05 | 0.07 | 0.05 |
| Total Phosphorus (mg/L) | 0.101 | 0.109 | 0.096 |
| Polychlorinated Biphenyls (pg/L) | 586 | 581 | 169 |

SOIL QUALITY

Full soil quality data and laboratory QA records can be found in Appendix B.

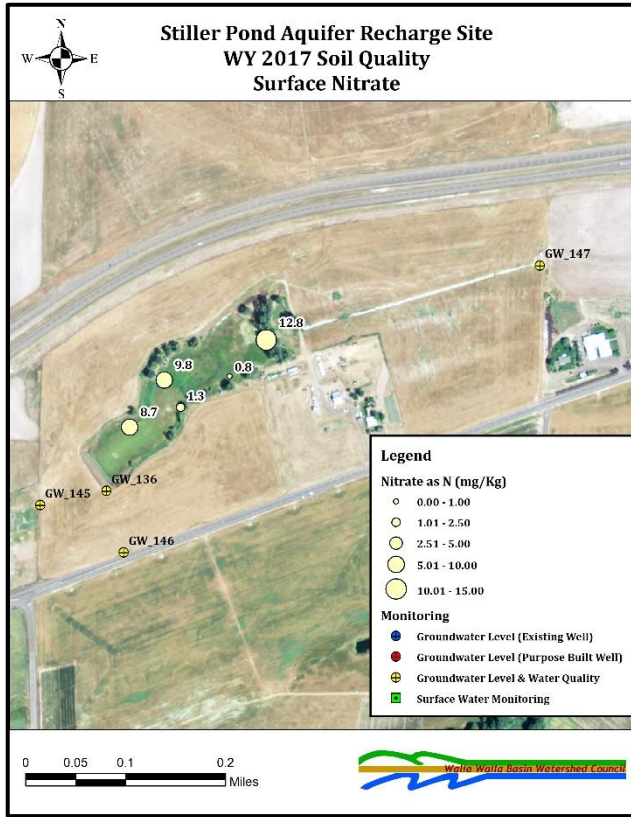


Figure 37 – Surface soil nitrate values at the Stiller Pond site during the WY2017 recharge season. See Figure 30 for soil quality monitoring names and locations.

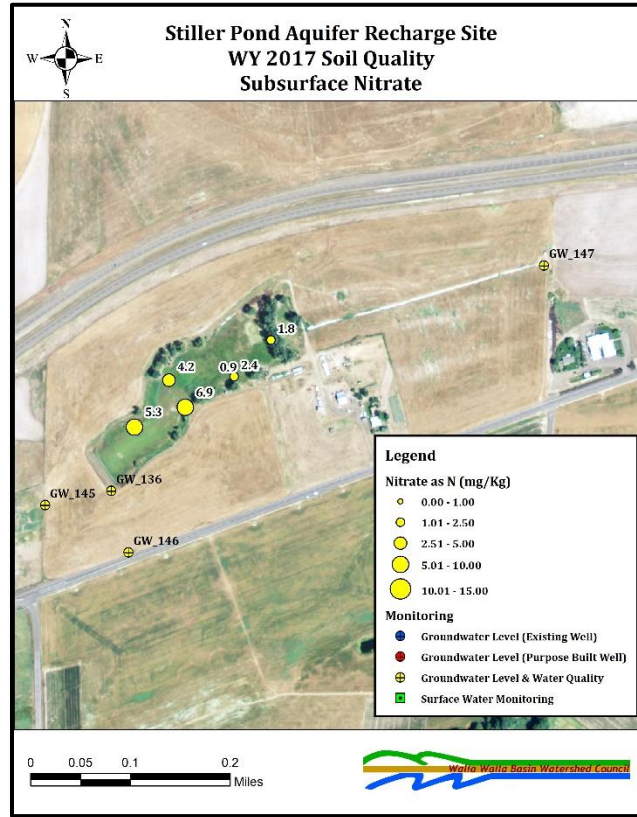


Figure 38 - Subsurface (~1' below ground surface) soil nitrate values at the Stiller Pond site during the WY2017 recharge season. See Figure 30 for soil quality monitoring names and locations. A duplicate was sampled at location SQ5B, therefore, two values are indicated on the map.

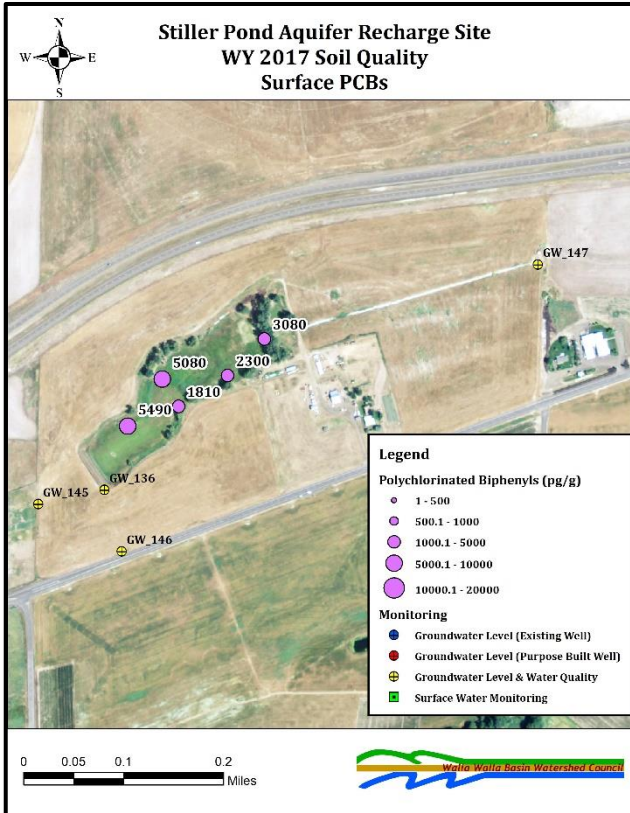


Figure 39 – Surface soil Polychlorinated Biphenyls (PCBs) values at the Stiller Pond site during the WY2017 recharge season. See Figure 30 for soil quality monitoring names and locations.

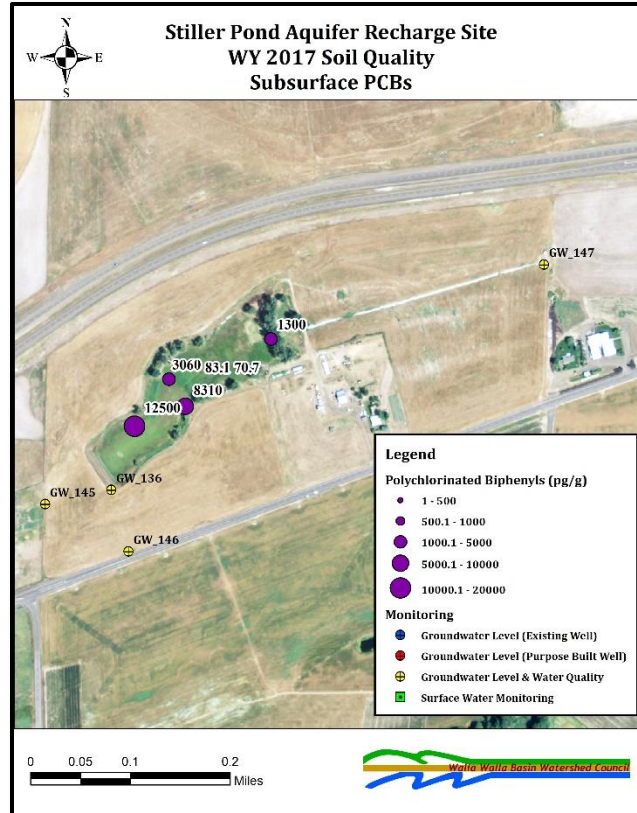


Figure 40 - Subsurface (~1' below ground surface) soil Polychlorinated Biphenyls (PCBs) values at the Stiller Pond site during the WY2017 recharge season. See Figure 30 for soil quality monitoring names and locations. A duplicate was sampled at location SQ5B, therefore, two values are indicated on the map (83.1 and 70.7).

SQ1A/B

| Sample Parameter | A - June 29 th , 2017 | B - June 29 th , 2017 |
|----------------------------------|----------------------------------|----------------------------------|
| Total Solids – Soil (%) | 90.29 | 88.07 |
| Nitrate – N (mg/Kg) | 12.8 | 1.8 |
| Ortho-Phosphate (mg/Kg) | 2.54 | 2.62 |
| Total Phosphorus (mg/Kg) | 1,058 | 868 |
| Polychlorinated Biphenyls (pg/g) | 3,080 | 1,300 |

SQ2A/B

| Sample Parameter | A - June 29 th , 2017 | B - June 29 th , 2017 |
|----------------------------------|----------------------------------|----------------------------------|
| Total Solids – Soil (%) | 77.06 | 79.58 |
| Nitrate – N (mg/Kg) | 9.8 | 4.2 |
| Ortho-Phosphate (mg/Kg) | 1.02 | 2.4 |
| Total Phosphorus (mg/Kg) | 643 | 604 |
| Polychlorinated Biphenyls (pg/g) | 5,080 | 3,060 |

SQ3A/B

| Sample Parameter | A - June 29th, 2017 | B - June 29th, 2017 |
|----------------------------------|---------------------------------------|---------------------------------------|
| Total Solids - Soil (%) | 82.06 | 81.96 |
| Nitrate - N (mg/Kg) | 8.7 | 5.3 |
| Ortho-Phosphate (mg/Kg) | 1.17 | 2.35 |
| Total Phosphorus (mg/Kg) | 741 | 823 |
| Polychlorinated Biphenyls (pg/g) | 5,490 | 12,500 |

SQ4A/B

| Sample Parameter | A - June 29th, 2017 | B - June 29th, 2017 |
|----------------------------------|---------------------------------------|---------------------------------------|
| Total Solids - Soil (%) | 40.01 | 72.80 |
| Nitrate - N (mg/Kg) | 1.3 | 6.9 |
| Ortho-Phosphate (mg/Kg) | 0.75 | 3.03 |
| Total Phosphorus (mg/Kg) | 757 | 747 |
| Polychlorinated Biphenyls (pg/g) | 1,810 | 8,310 |

SQ5A/B

| Sample Parameter | A - June 29th, 2017 | B - June 29th, 2017 |
|----------------------------------|---------------------------------------|---------------------------------------|
| Total Solids - Soil (%) | 58.87 | 74.60 (70.07) |
| Nitrate - N (mg/Kg) | 0.8 | 0.9 (2.4) |
| Ortho-Phosphate (mg/Kg) | 2.57 | 4.90 (5.94) |
| Total Phosphorus (mg/Kg) | 805 | 650 (652) |
| Polychlorinated Biphenyls (pg/g) | 2,300 | 83.1 (70.7) |

**Note - Values in parenthesis indicate duplicate sample value.*

EXTENT OF PONDED WATER MAP

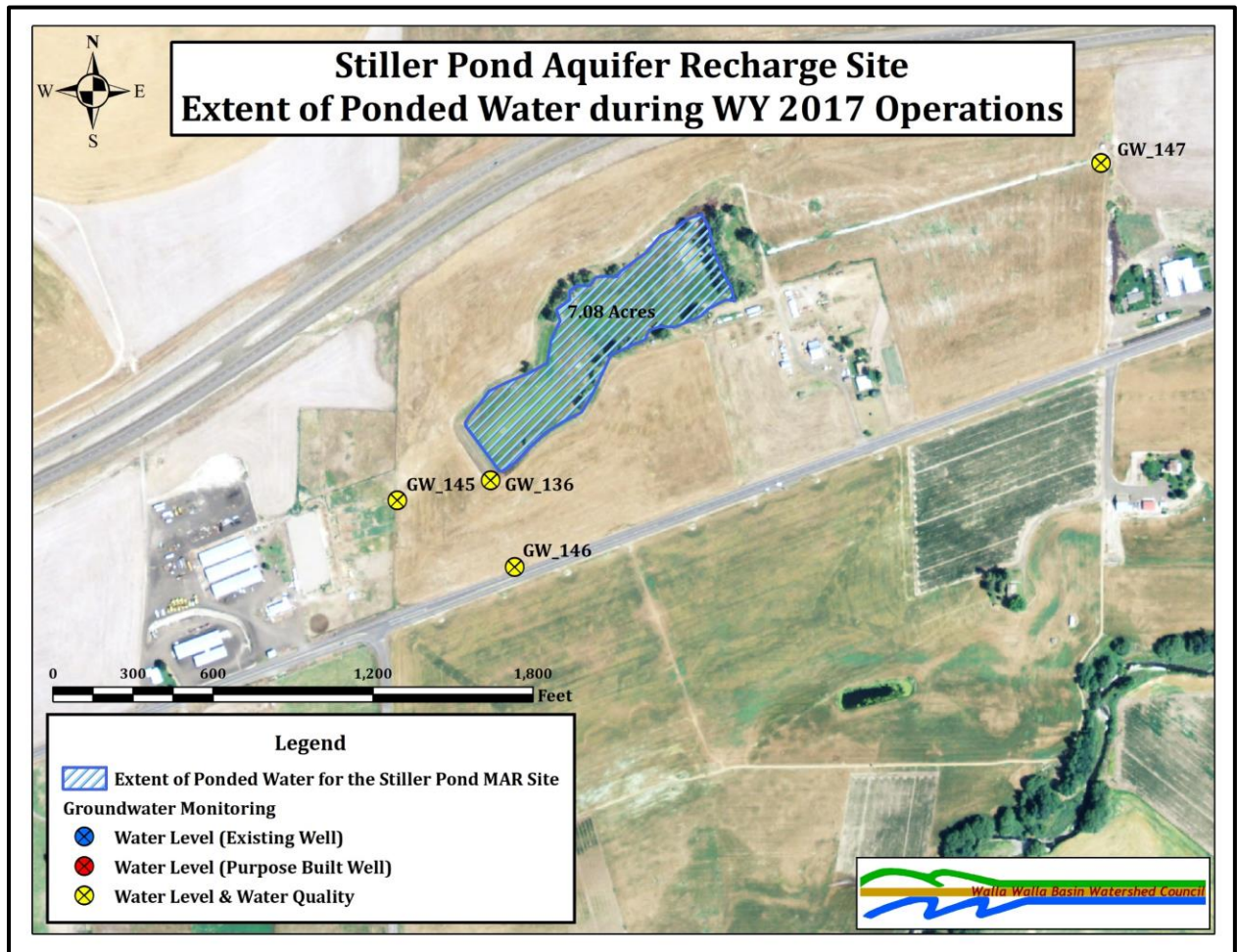


Figure 41 - Map of the Stiller Pond Aquifer Recharge site showing maximum extent of ponded water during operations.

LAST CHANCE ROAD

OVERVIEW

The Last Chance Road site did not operate during the WY2017 recharge season. West Little Walla Walla River flows were monitored at the WWBWC's S-227 gauge (Figure 43) and groundwater levels were monitored at the four monitoring wells. (Figure 42).

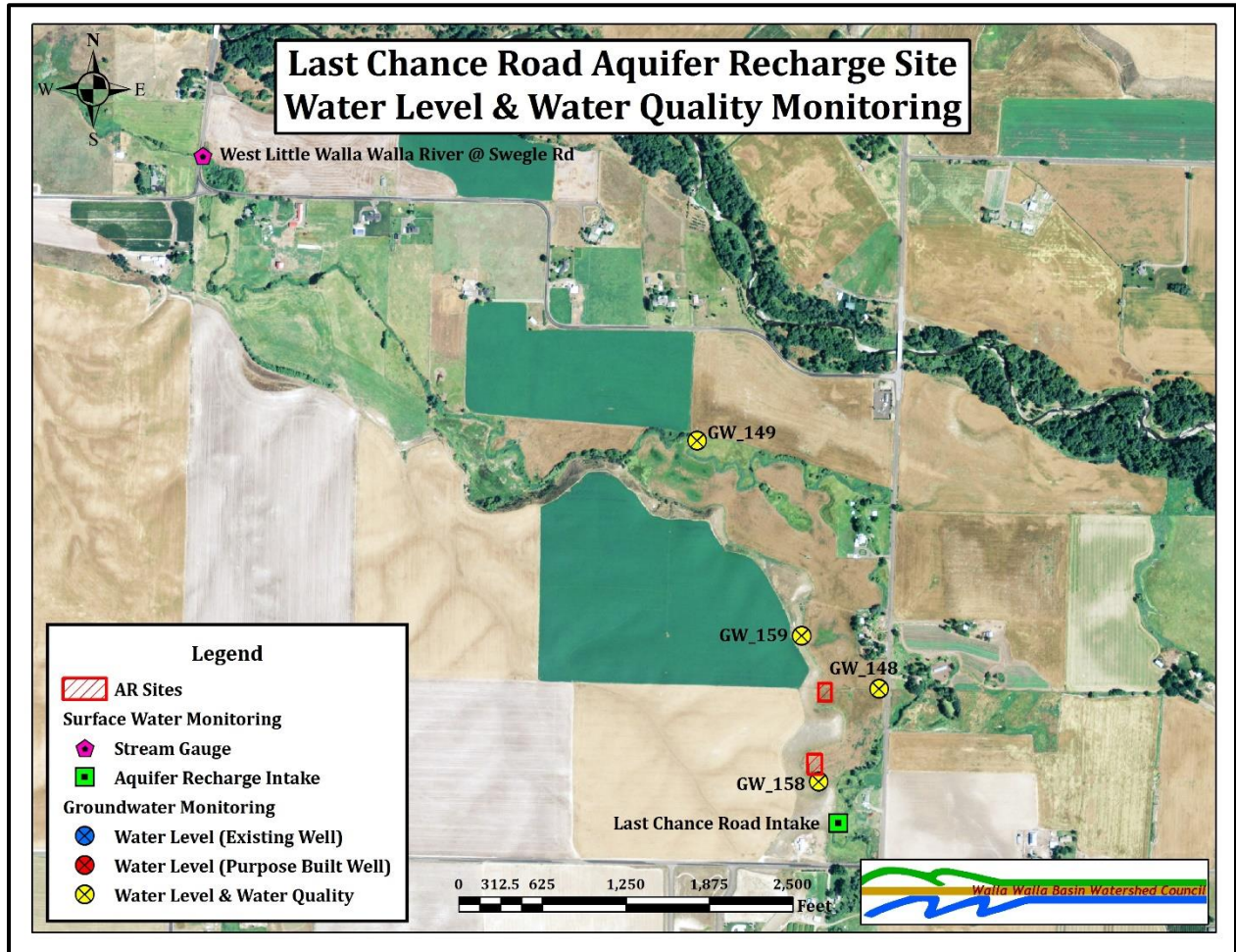


Figure 42 - Map showing groundwater monitoring sites for the Last Chance Road Aquifer Recharge Site.

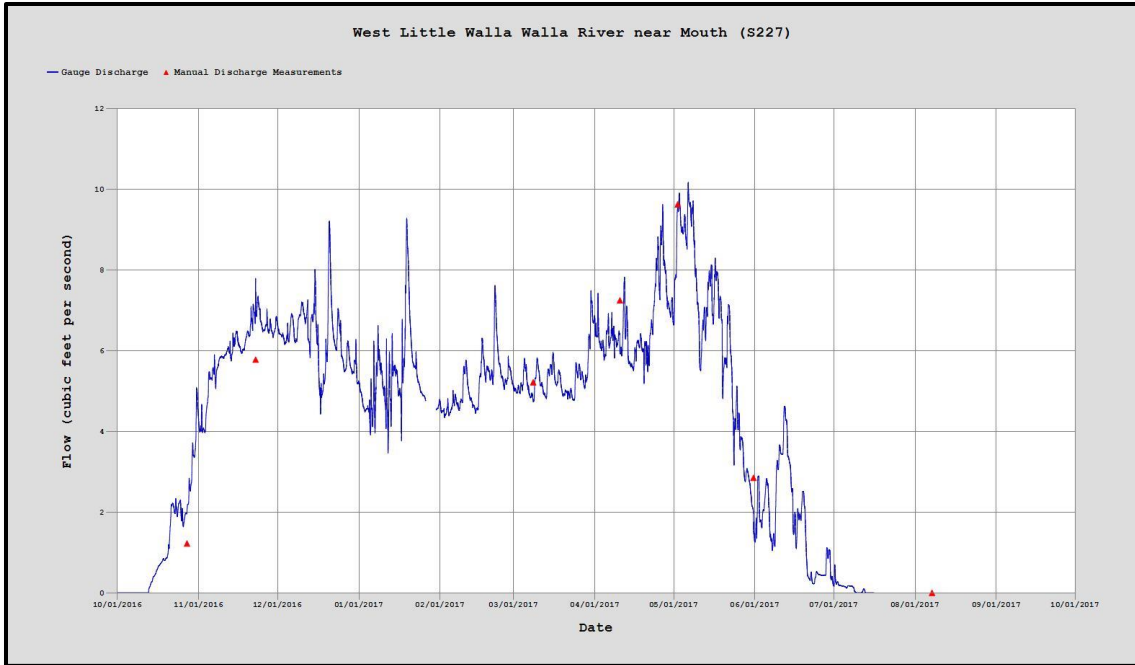


Figure 43 – Water Year 2017 hydrograph for WWBWC’s West Little Walla Walla River at Swegle Road (S227) gage. Note: the WLWWR near Mouth S227 was dry from early July to the last measurement point for this site in mid-September.

WATER QUALITY

Because the Last Chance Road site did not operate, water quality samples were not collected during the WY2017 recharge season.

SOIL QUALITY

Because the Last Chance Road site did not operate, soil quality samples were not collected during the WY2017 recharge season.

WA MUD CREEK

OVERVIEW

The WA Mud Creek site did not operate during the WY2017 recharge season (Figure 44). Groundwater levels data were collected at the monitoring wells associated with the project.

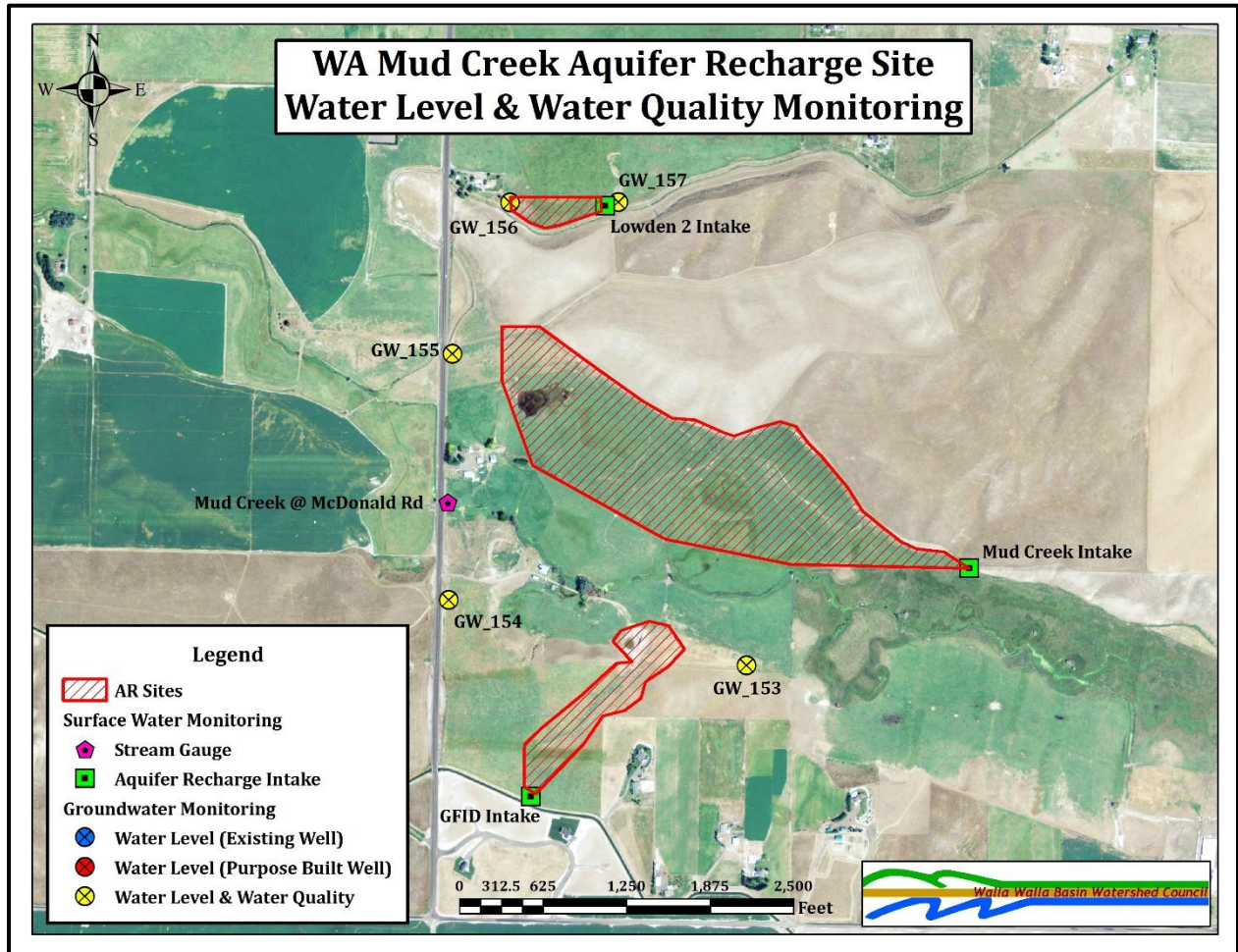


Figure 44 - Map showing groundwater monitoring sites for the WA Mud Creek Aquifer Recharge Site.

WATER QUALITY

Because the WA Mud Creek site did not operate, water quality samples were not collected during the WY2017 recharge season.

SOIL QUALITY

Because the WA Mud Creek site did not operate, soil quality samples were not collected during the WY2017 recharge season.

SUMMARY AND DISCUSSION

GROUNDWATER/SURFACE WATER INTERACTIONS AND TRENDS

The AR program summarized here simulates floodplain function and processes that have been lost due to water resource and urban development, channelization of the river and stream channels for flood control and other uses.

Over the course of the WY2017 recharge season, the aquifer recharge program in the Washington portion of the Walla Walla Basin delivered ~279 acre-feet (~90.9 million gallons) of winter/spring run-off water into the Stiller Pond Aquifer Recharge site. Water levels in the alluvial aquifer at the Stiller Pond site responded to AR activities. A positive trend appears to be present in the groundwater level improvements at the Stiller Pond site (Appendix A – hydrographs GW_136-147).

The Locher Road site did not operate this recharge season. Wells in the Locher Road area show improving groundwater levels from the start of the project in 2007 until approximately 2011-12. Water levels in the area start a yearly decline starting in the summer of 2012. These decreasing water levels coincide with the last phase of the Hyline piping project on the Oregon side of the border that was completed in 2012. Water levels in the area rose during past recharge operations, however the volume of water added to the alluvial aquifer does not appear to be sufficient to overcome the regional deficit (Appendix A). Recharge operations during 2013-2015 were limited in length and volume. WY2016 recharge operations delivered the largest volume of water to the Locher Road site since its construction in 2007. This larger volume of water may have contributed to groundwater level improvements in WY2016, with yearly lows recovering from the historic lows during the WY 2015 drought. However, the lack of recharge operations during WY2017 and the magnitude of the WY2016 recharge volumes should be monitored into the future to determine longer term fluctuations.

Trends and impacts due specifically to recharge operations at the Stiller Pond site cannot yet be inferred due to limited period of record and lack of additional data (tracer studies, etc). However, based upon the few years of data at the site, there appears to be positive trends in groundwater levels at all four monitoring wells (Figure 45). Groundwater elevations have increased approximately 2.5 feet since 2014 when aquifer recharge operations were increased with the temporary EEP. Groundwater improvements are indicated during both winter/spring aquifer recharge operations and summer/fall periods of limited instream flows and irrigation use. In addition, groundwater/surface water interaction in the down-gradient surface water systems have shown improvements that may correspond to groundwater level improvements (see Table 1 and WWBWC, 2017c). Additional years of operation and data collection will be needed to further evaluate the influence of the Stiller Pond site both on groundwater and surface conditions.

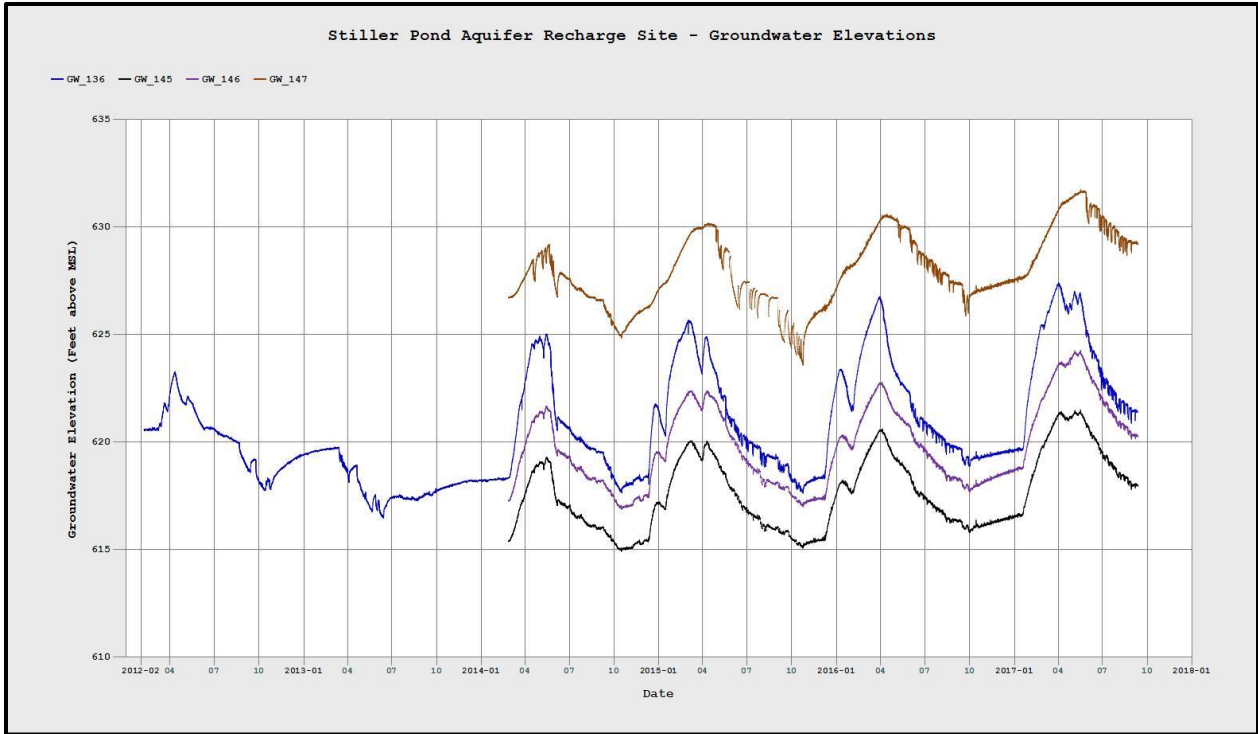


Figure 45 - Groundwater elevation hydrograph for monitoring wells at the Stiller Pond Aquifer Recharge site. Annual groundwater level improvements occurred from 2014 to 2017.

Table 1. Seasonal seepage rates for the Walla Walla River down-gradient from the Stiller Pond Aquifer Recharge site. Values indicate net loss (red) or net gain (green) for the reach above and below the Detour Road bridge (see Figure 46).

| Water Year | Seepage Rate - Upstream of Detour Road | | Seepage Rate - Downstream of Detour Road | |
|------------|--|-------|--|-------|
| | Spring/Summer | Fall | Spring/Summer | Fall |
| 2011 | 0.11 | -2.29 | 3.03 | -0.4 |
| 2012 | -3.54 | -4.03 | -0.78 | 4.24 |
| 2013 | -3.85 | -4.68 | -1.8 | -5.87 |
| 2014 | 1.64 | -2.43 | 7.6 | -1.73 |
| 2015 | 0.9 | -0.37 | -4.78 | -3.13 |
| 2016 | -4.31 | 3.2 | -6.77 | 1.46 |

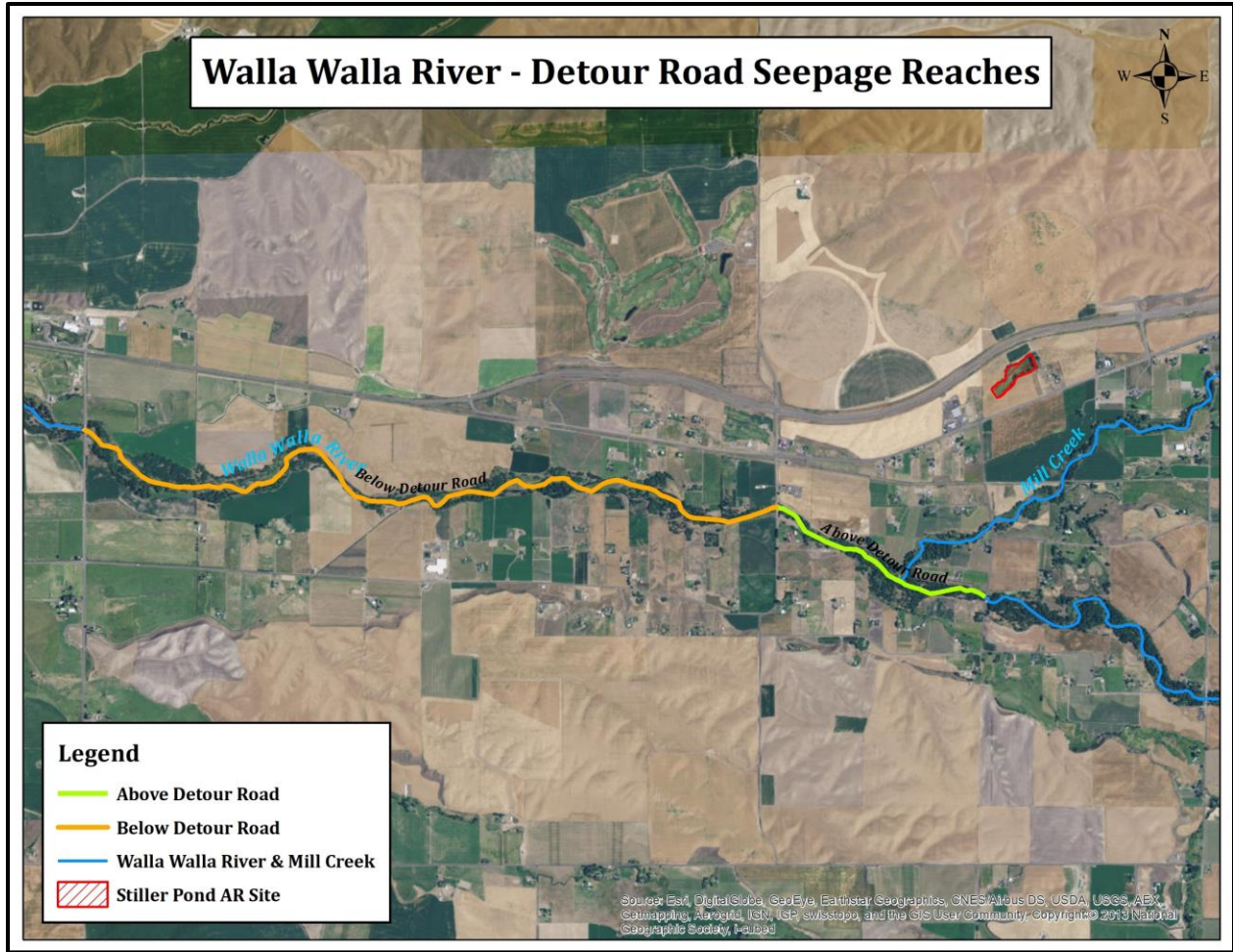


Figure 46 - Walla Walla River seepage reaches in the Detour Road area.

Groundwater levels and potential groundwater flow paths have changed over the last 8 years, based on water table maps (Figures 47 & 48). Water table maps were created from October 2009 data and July 2017 data. Changes in contours and potential flow paths may be due to multiple changes including the addition of new monitoring wells (~40 new wells added between 2009 and 2017), aquifer recharge operations, water management changes (e.g. ditch piping, water banking, local water plans, etc.) and yearly fluctuations in precipitation patterns. Three areas of note include: 1 – the southeast portion of the water table map near Milton-Freewater, OR, 2 – the area around the confluence of Mill Creek and the Walla Walla River and 3 – the lower portion of the Walla Walla Valley. The water table contours changes near Milton-Freewater may indicate a change in groundwater flow direction in a more north-northwest direction instead of just west-northwest. Water table contours in the Mill Creek-Walla Walla River confluence area may corroborate the changes in seepage rates (i.e. reduced losses/increase gains) in the area just below the confluence. And changes to the water table contours in the lower portion of the valley correspond with groundwater declines observed from 2011/2012 to present (WWBWC, 2017a).

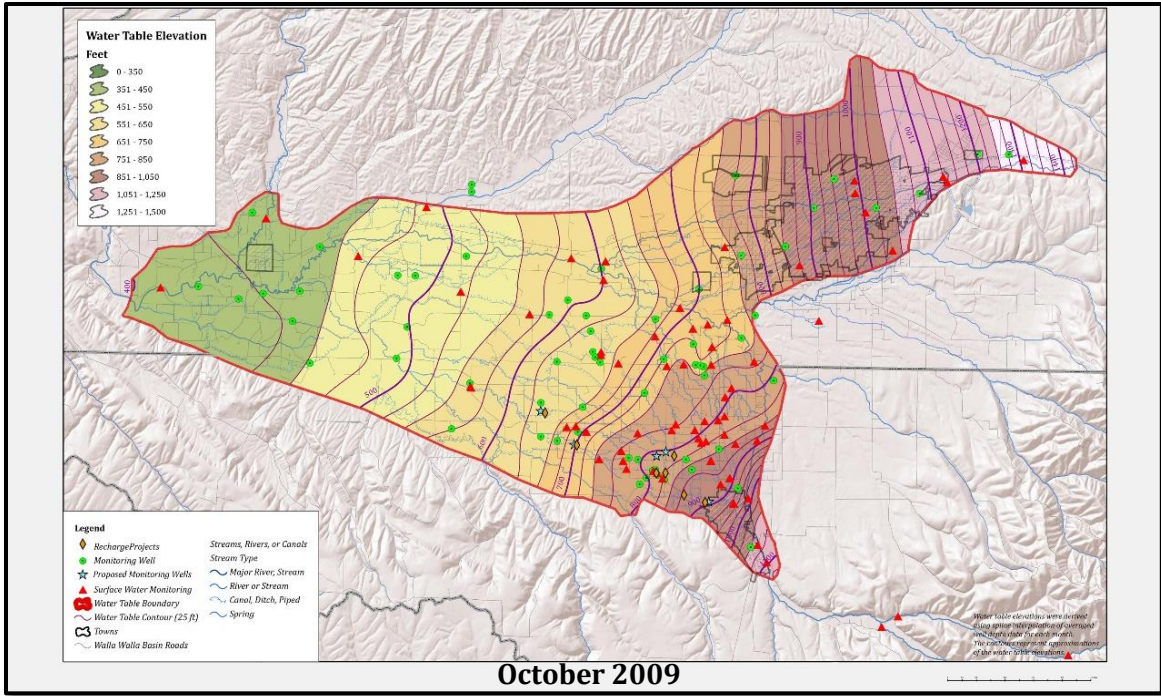


Figure 47 - Water table map for the alluvial aquifer system in the Walla Walla Valley, October 2009.

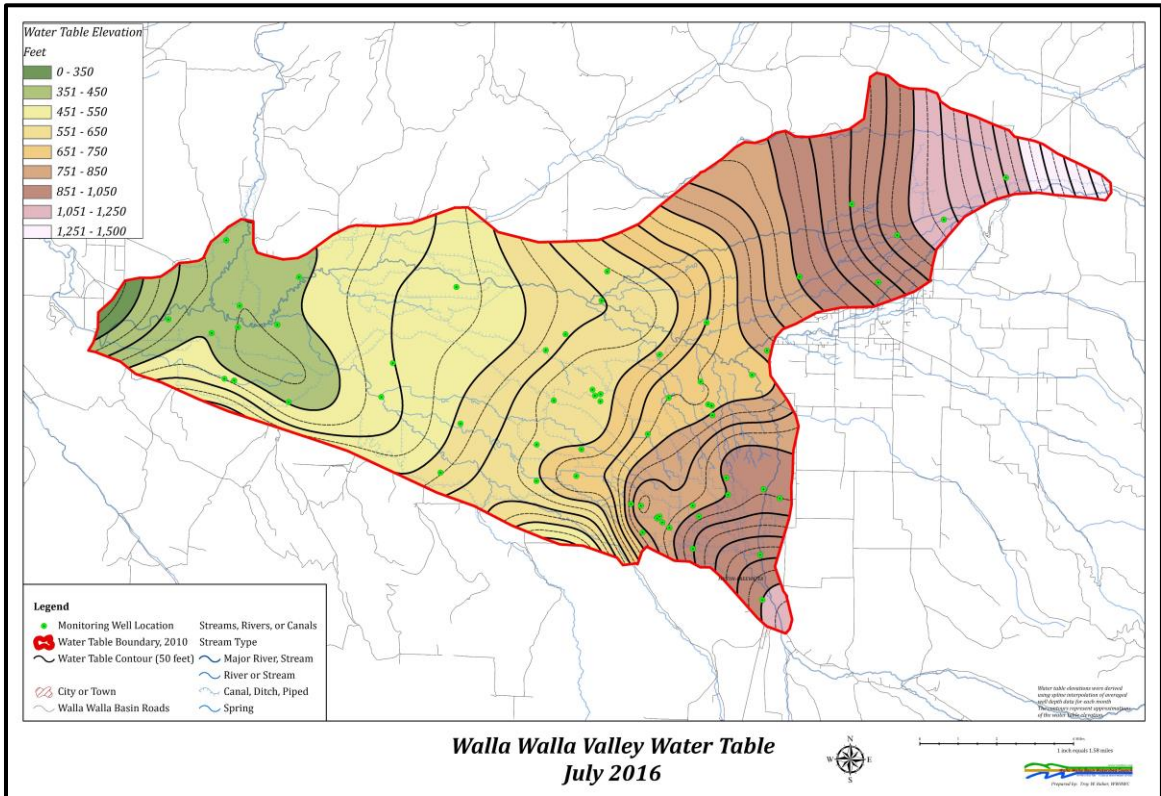


Figure 48 - Water table map for the alluvial aquifer system in the Walla Walla Valley, July 2016.

REFERENCES

- Barker, R.A., and MacNish, R.D., 1976. Digital Model of the Gravel Aquifer, Walla Walla River Basin, Washington and Oregon. Washington Department of Ecology. Water Supply Bulletin 45, 56 p, 1 plate.
- GSI, 2012. Results of the 2012 Alluvial Aquifer Recharge Season at the Stiller Pond Site, Walla Walla County, Washington. Consulting Report for the Walla Walla Basin Watershed Council and Walla Walla County Conservation District, 67 p.
- GSI, 2012a. Review of Previously Collected Source Water and Groundwater Quality Data from Alluvial Aquifer Recharge Projects in the Walla Walla Basin, Washington and Oregon. Consulting Report for the Walla Walla Basin Watershed Council, 70 p.
- Jiménez, A. C.P., 2012. Managed Artificial Aquifer Recharge and Hydrological Studies in the Walla Walla Basin to Improve River and Aquifer Conditions. Oregon State University: Water Resources Engineering, Ph.D. Dissertation.
- Kuttel Jr., M. 2015. Request to reduce water quality monitoring requirements at Locher Road SAR site. Letter sent January 14, 2015 to Steven Patten, Walla Walla Basin Watershed Council.
- Newcomb, R.C., 1965. Geology and ground-water resources of the Walla Walla River Basin, Washington and Oregon: Washington Department of Conservation, Division of Water Resources. Water Supply Bulletin 21, 151 p, 3 plates.
- Piper, A. R. (1933). *Groundwater in the Walla Walla Basin, Oregon-Washington-Part I*. Department of the Interior, U.S. Geological Survey. 99p.
- Piper, A. R. (1933). *Groundwater in the Walla Walla Basin, Oregon-Washington-Part 2*. Department of the Interior, U.S. Geological Survey. 176p.
- WWBWC, 2012. 2012 Walla Walla Basin Seasonal Seepage Assessments Report – Walla Walla River, Mill Creek, Touchet River, and Yellowhawk Creek. www.wwbwc.org.
- WWBWC, 2013. Walla Walla Basin Aquifer Recharge Strategic Plan, January 2013. www.wwbwc.org.
- WWBWC, 2015. Walla Walla Basin Aquifer Recharge Water Quality and Water Level Monitoring Quality Assurance Project Plan, May 2013 – Version 1.3. www.wwbwc.org.
- WWBWC, 2017a. Shallow Aquifer Monitoring in the Walla Walla Basin, 2017 Water Year, September 2017. www.wwbwc.org.
- WWBWC, 2017b. Surface Water Monitoring in the Walla Walla Basin, 2017 Water Year, September 2017. www.wwbwc.org.
- WWBWC, 2017c. Walla Walla Basin Seasonal Seepage Assessments Report; Walla Walla River, Mill Creek, and Touchet River, August 2017. www.wwbwc.org.

WWWMP, 2010. Gardena Farms Irrigation District #13 Local Water Plan Agreement. Walla Walla Watershed Management Partnership Local Water Plan LWP-10-01. www.wallawallawatershed.org.

WWWMP, 2010a. Stiller Pond Site Local Water Plan Agreement. Walla Walla Watershed Management Partnership Local Water Plan LWP-10-02. www.wallawallawatershed.org.

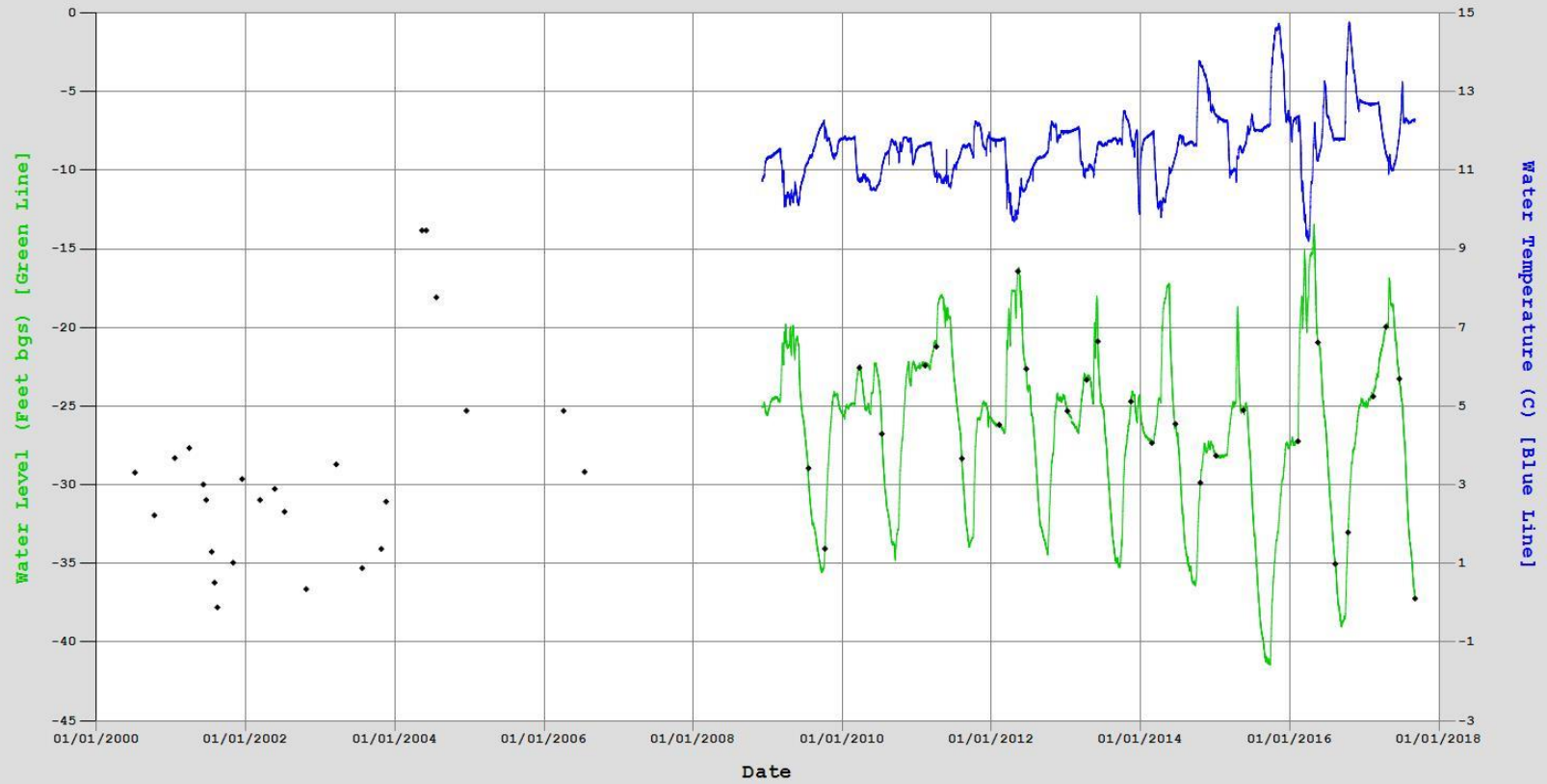
WWWMP, 2014. Reser Farm Local Water Plan Agreement. Walla Walla Watershed Management Partnership Local Water Plan LWP 14-01. www.wallawallawatershed.org.

WWWMP, 2014a. Hassler Local Water Plan Agreement. Walla Walla Watershed Management Partnership Local Water Plan LWP 14-01. www.wallawallawatershed.org

APPENDIX A - MONITORING WELL HYDROGRAPHS, INCLUDING ALL AVAILABLE DATA, FOR THE LOCHER ROAD AND STILLER POND AQUIFER RECHARGE SITES

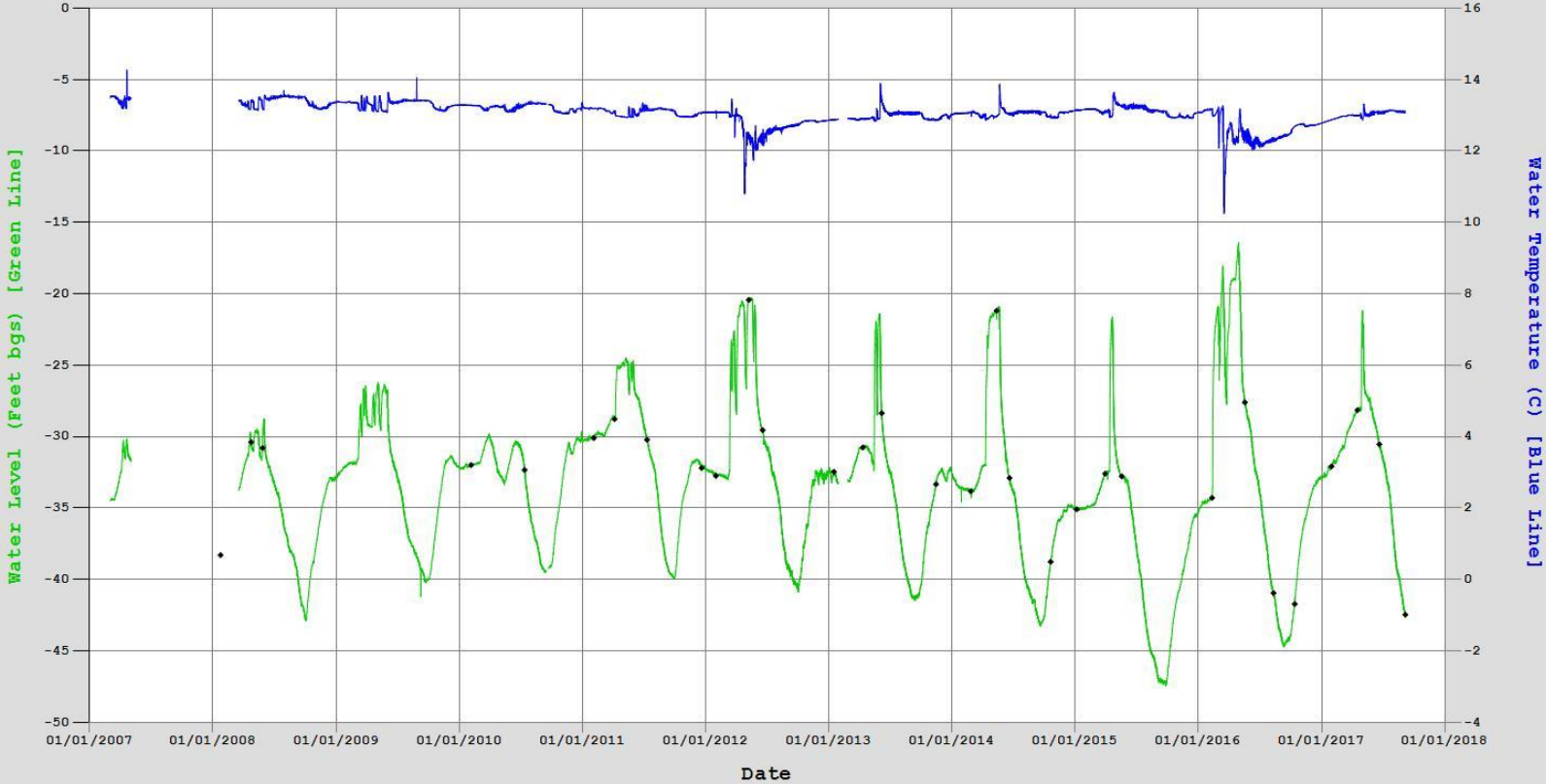
Monitoring Well GW_57

• Manual Water Level Measurements



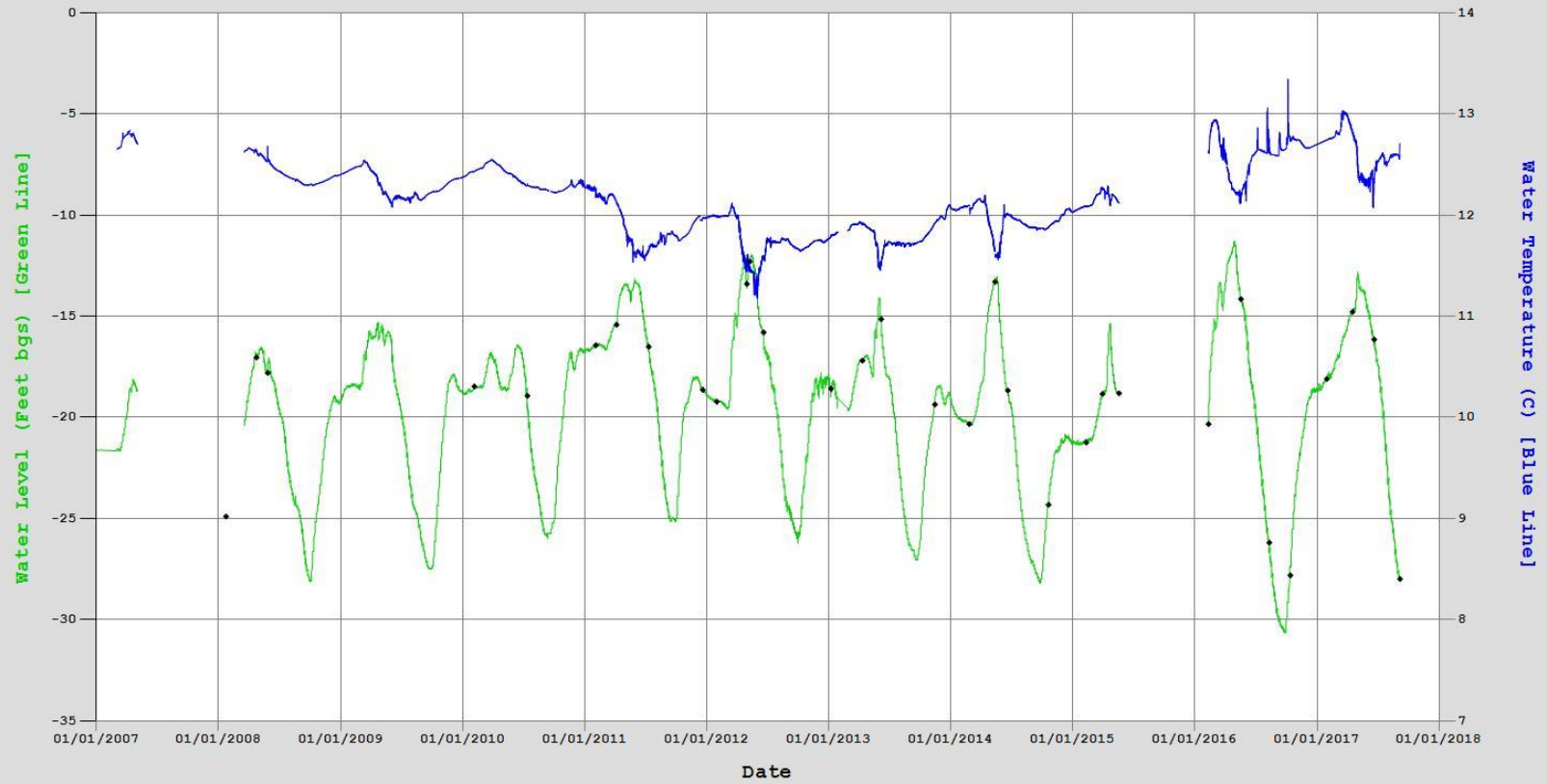
Monitoring Well GW_70

• Manual Water Level Measurements



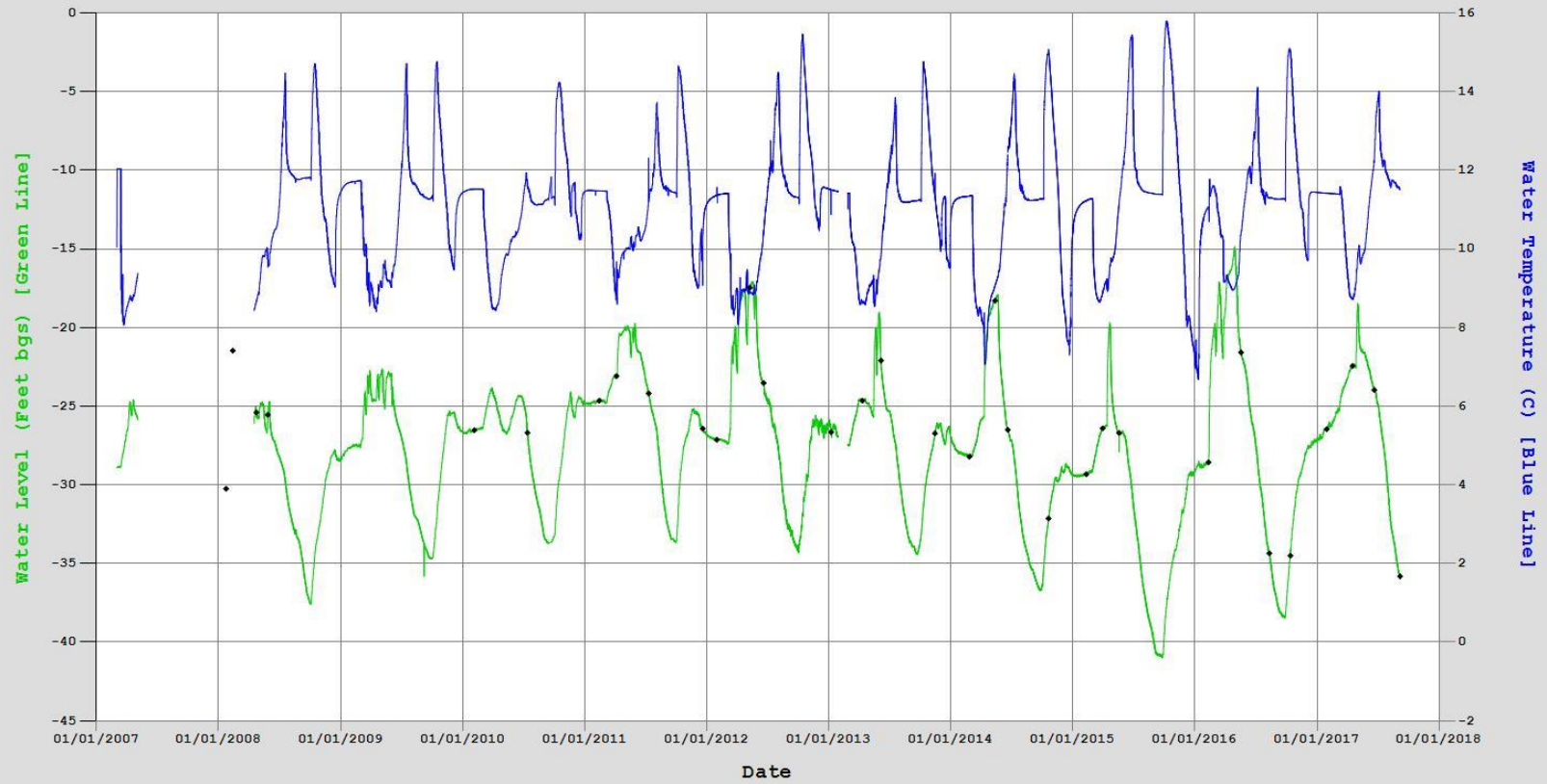
Monitoring Well GW_71

• Manual Water Level Measurements



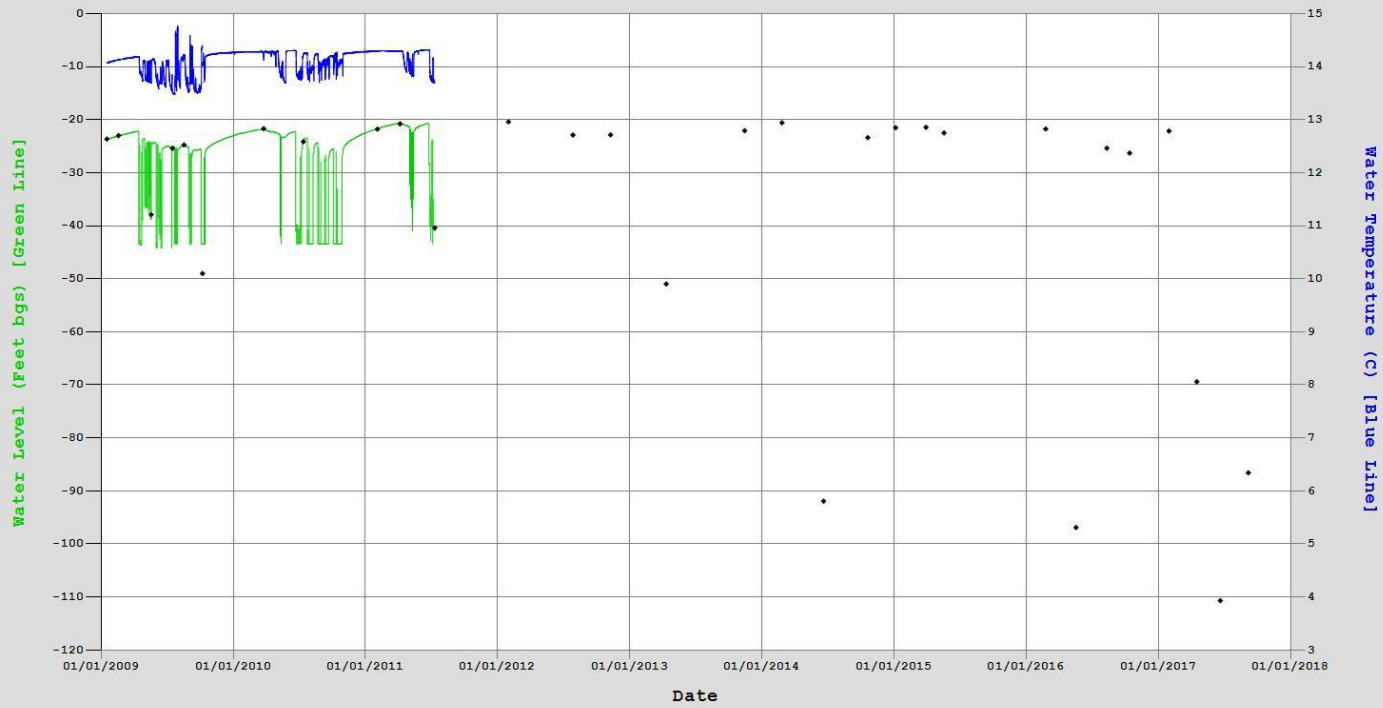
Monitoring Well GW_72

• Manual Water Level Measurements



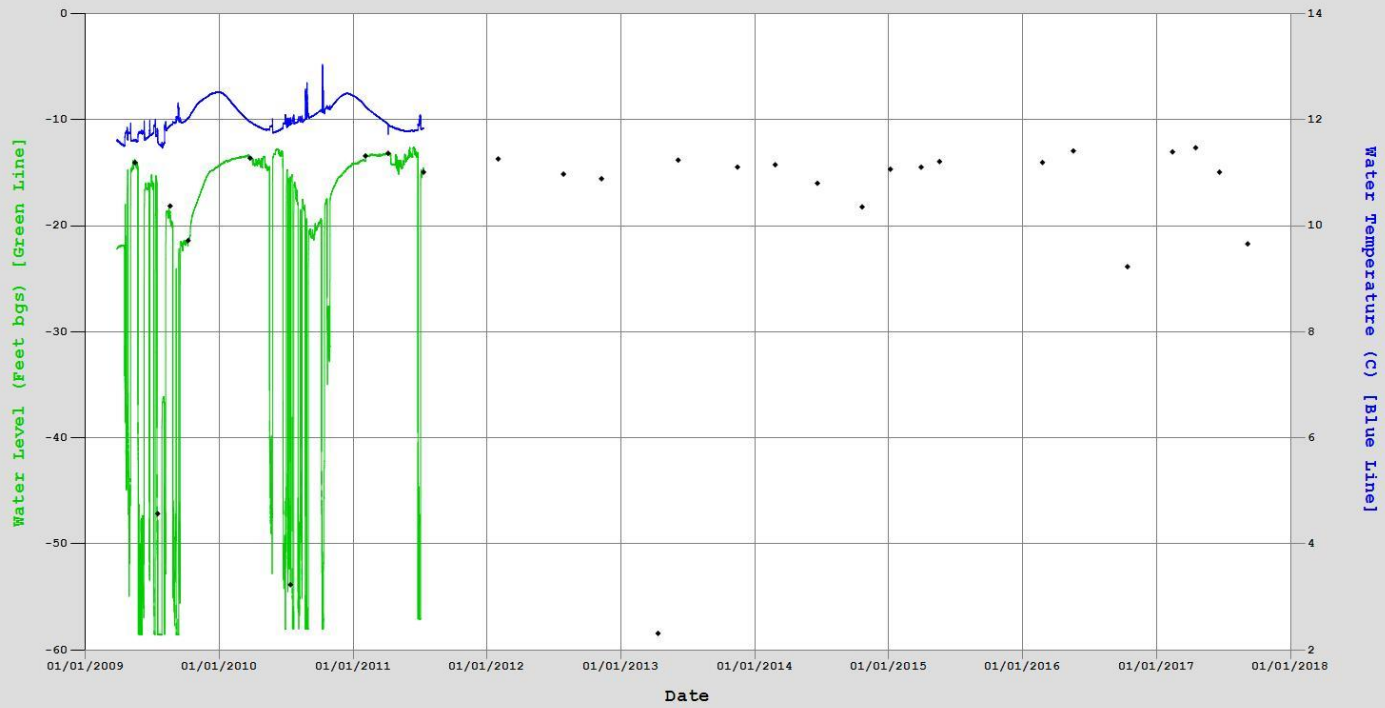
Monitoring Well GW_103

• Manual Water Level Measurements



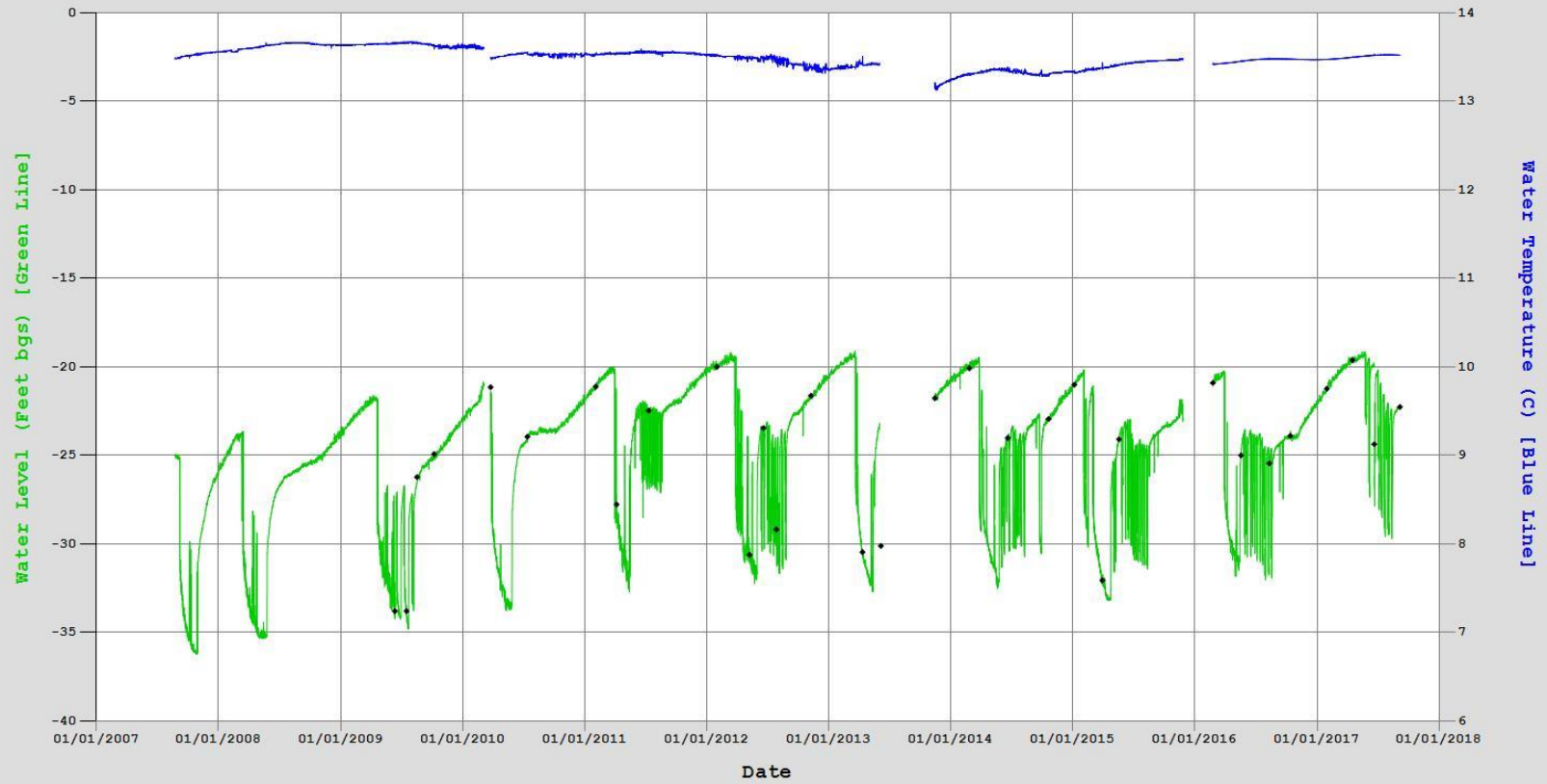
Monitoring Well GW_104

• Manual Water Level Measurements



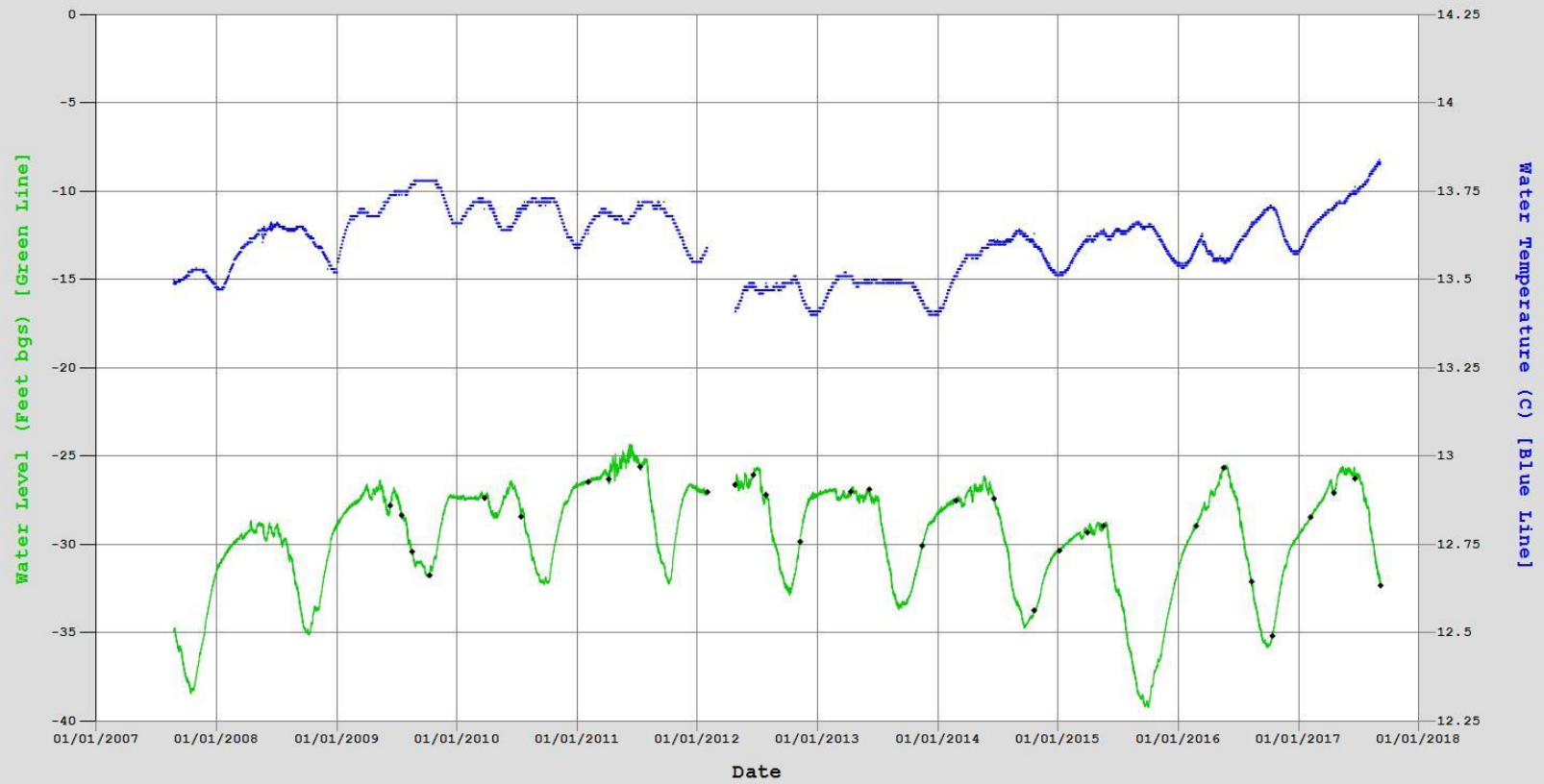
Monitoring Well GW_108

• Manual Water Level Measurements



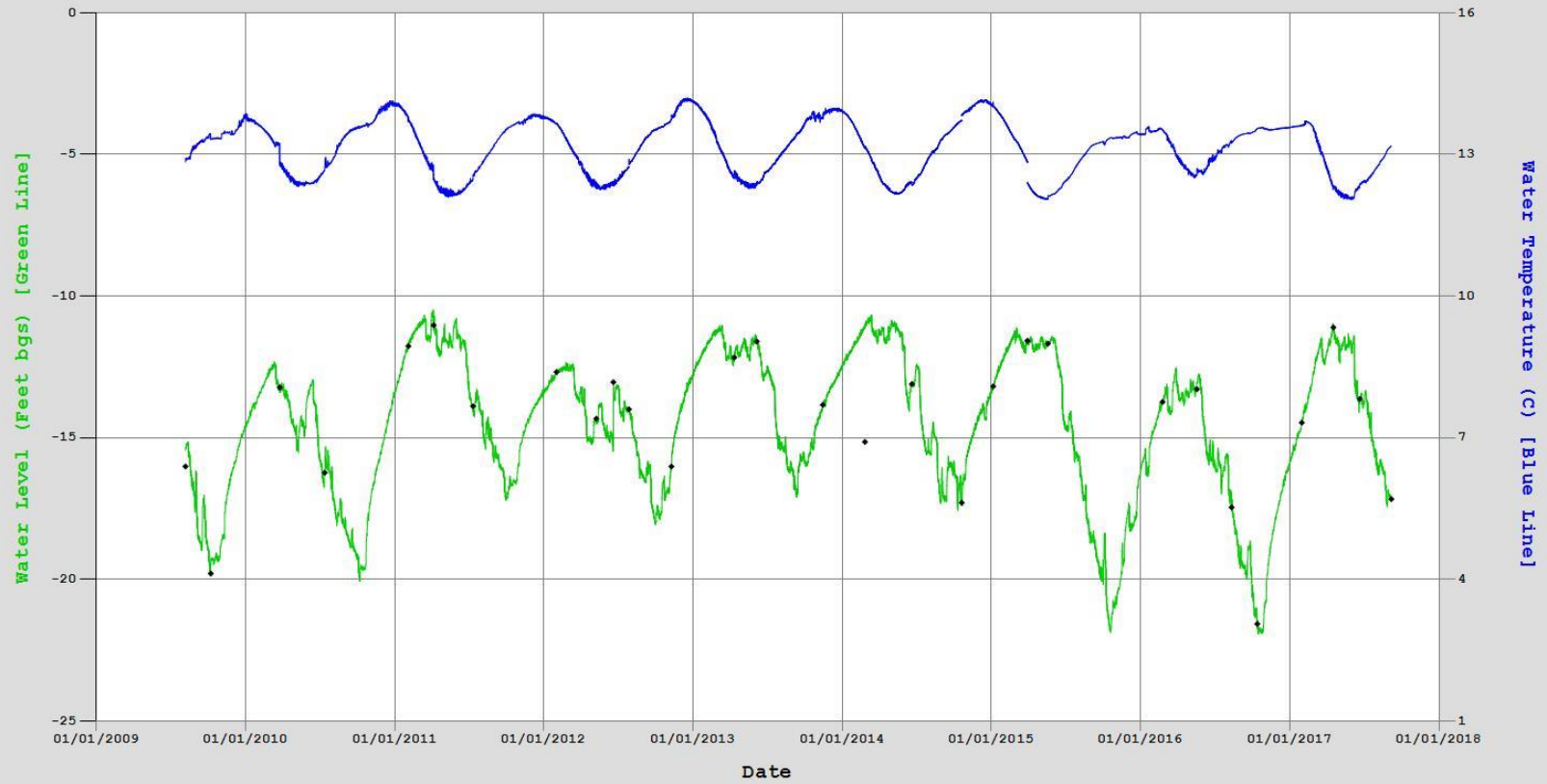
Monitoring Well GW_110

• Manual Water Level Measurements



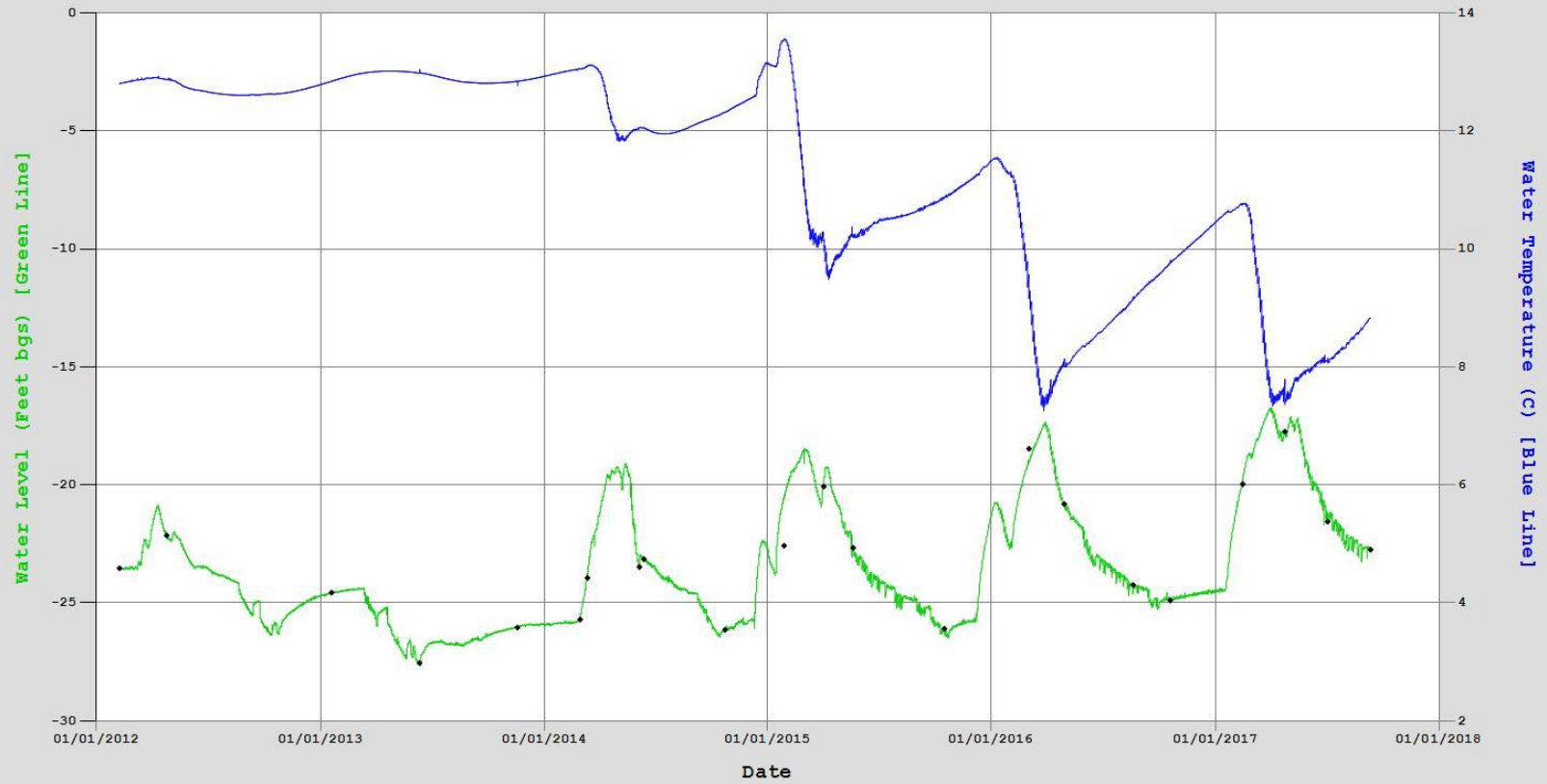
Monitoring Well GW_122

• Manual Water Level Measurements



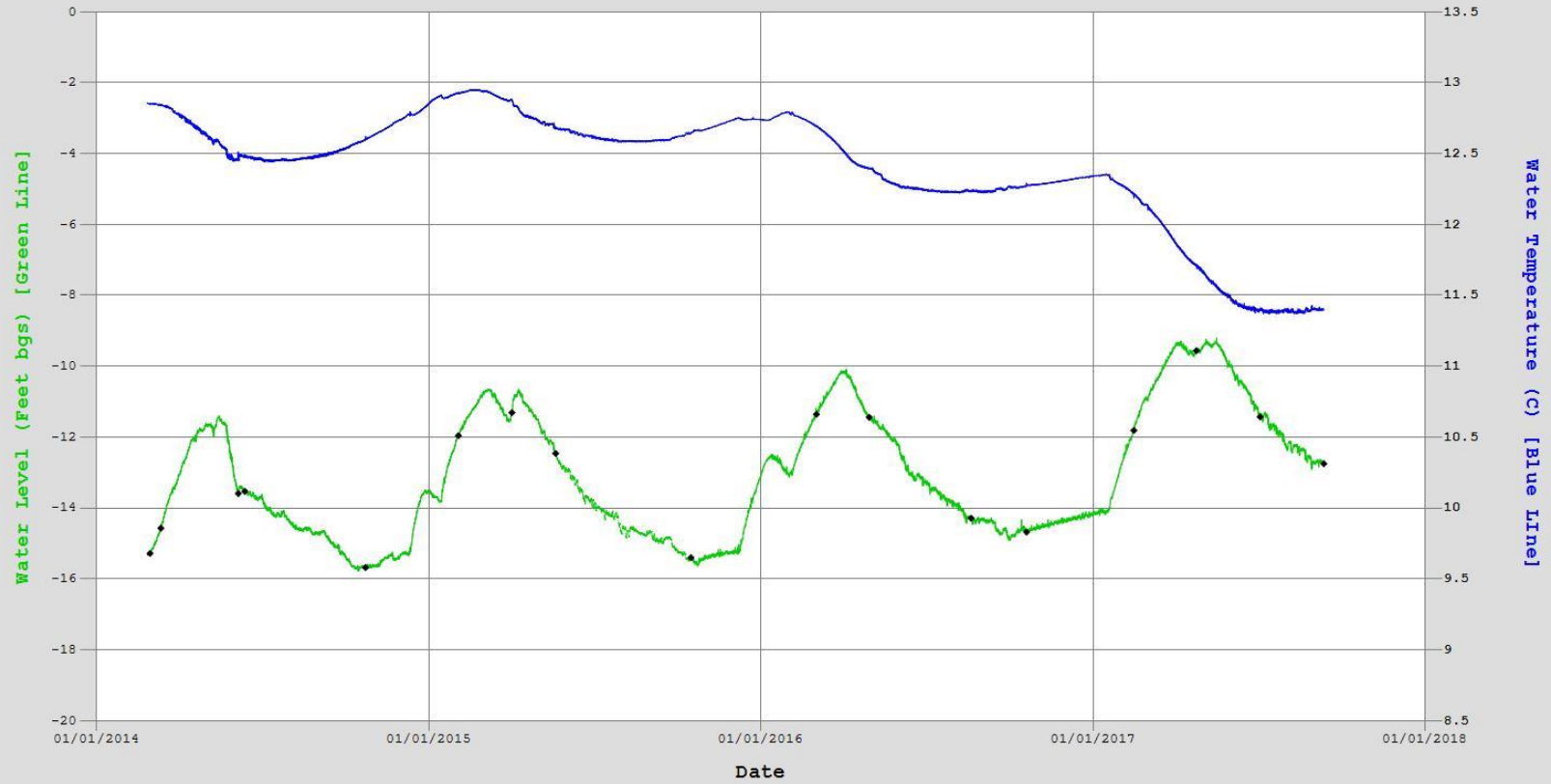
Monitoring Well GW_136

• Manual Water Level Measurements

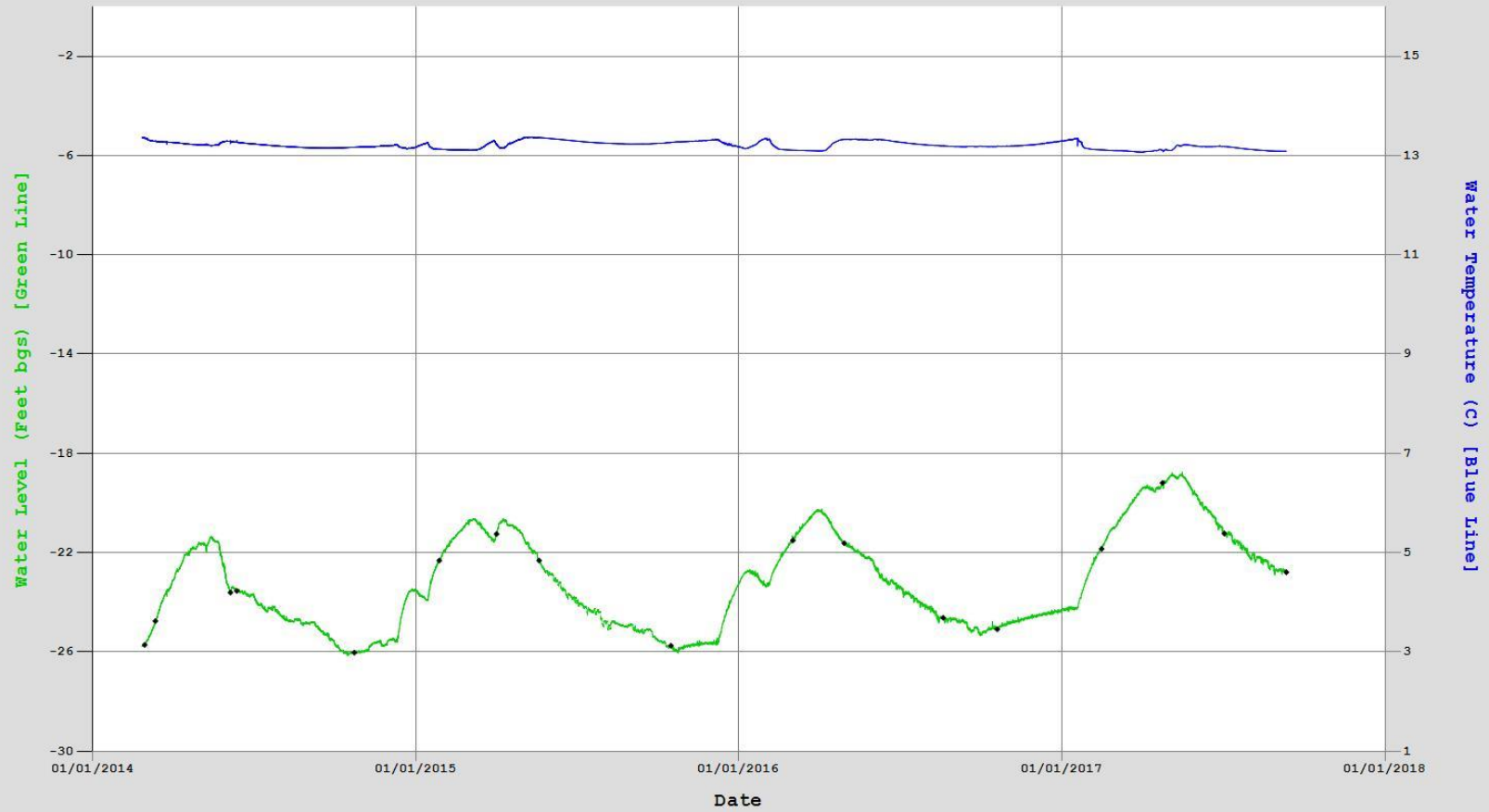


Monitoring Well GW_145

• Manual Water Level Measurements

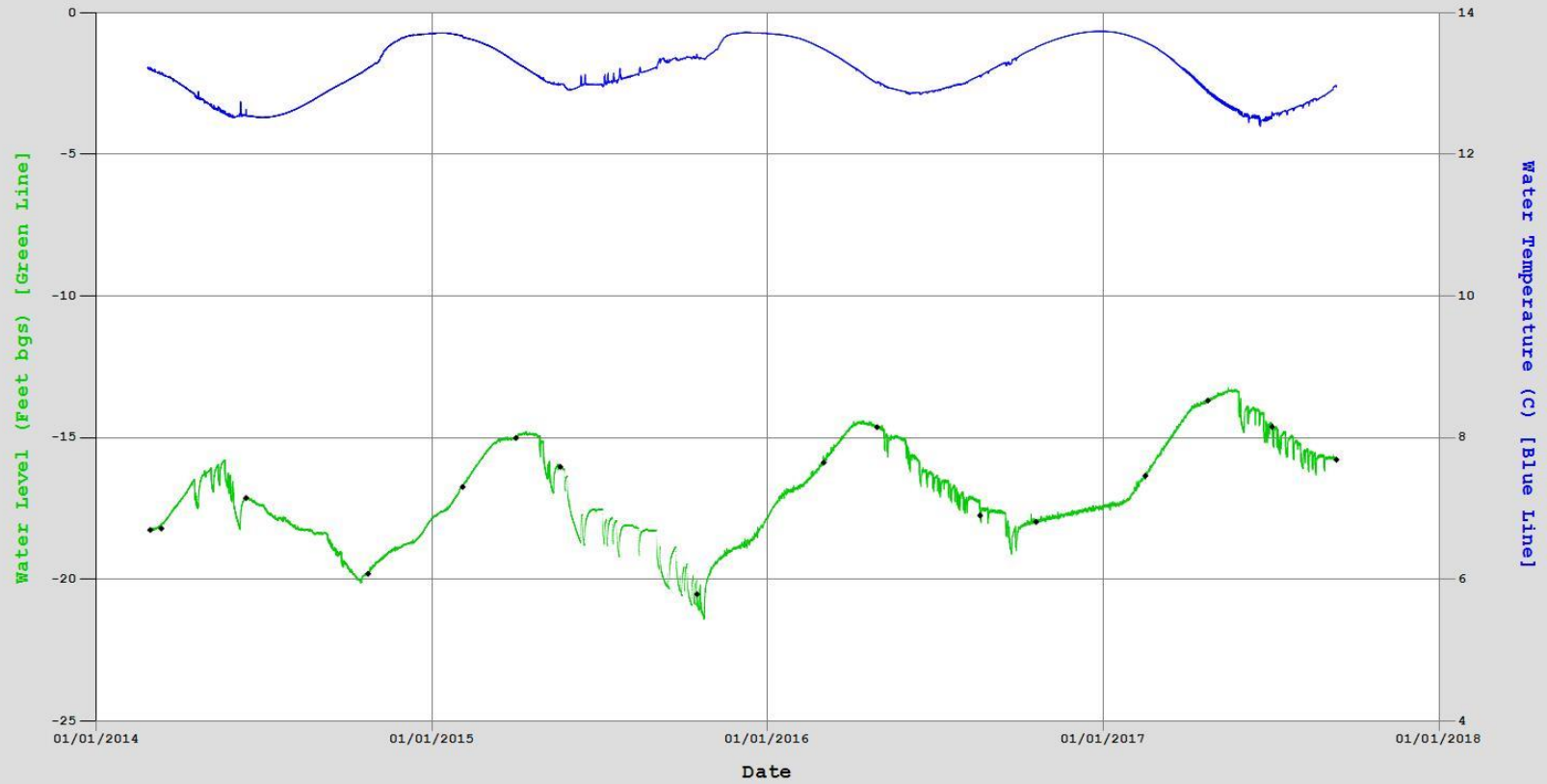


Monitoring Well GW_146

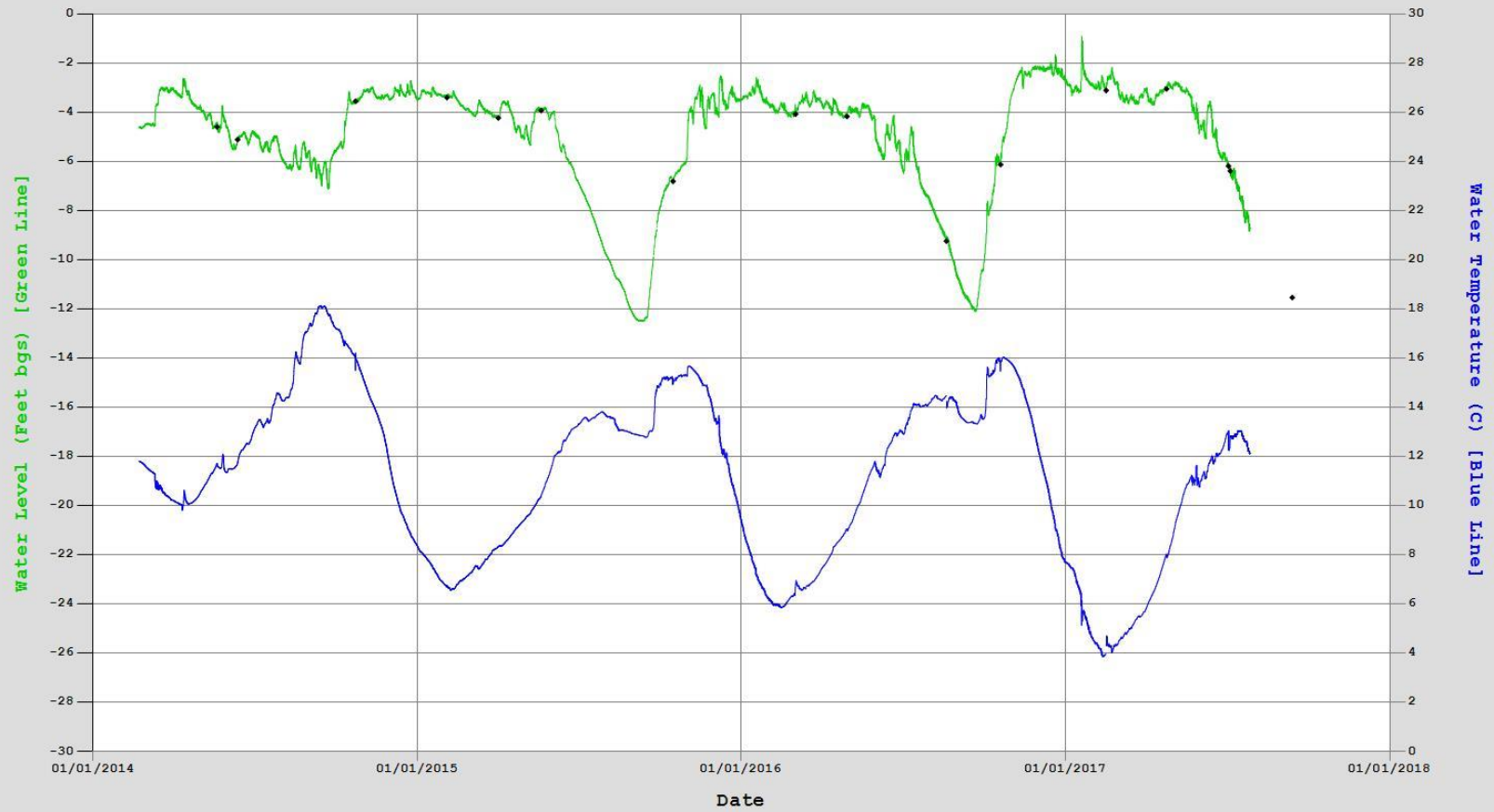


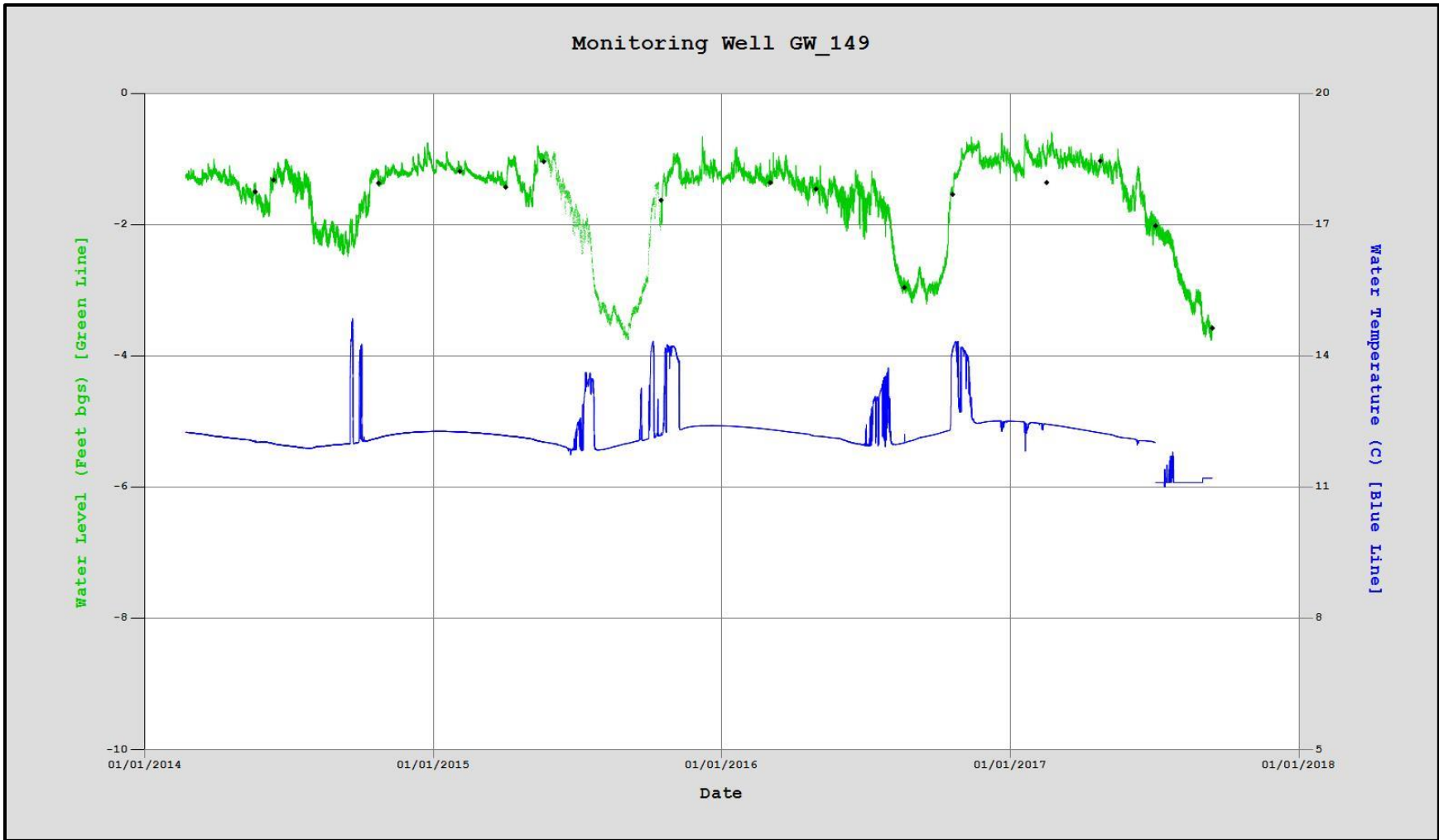
Monitoring Well GW_147

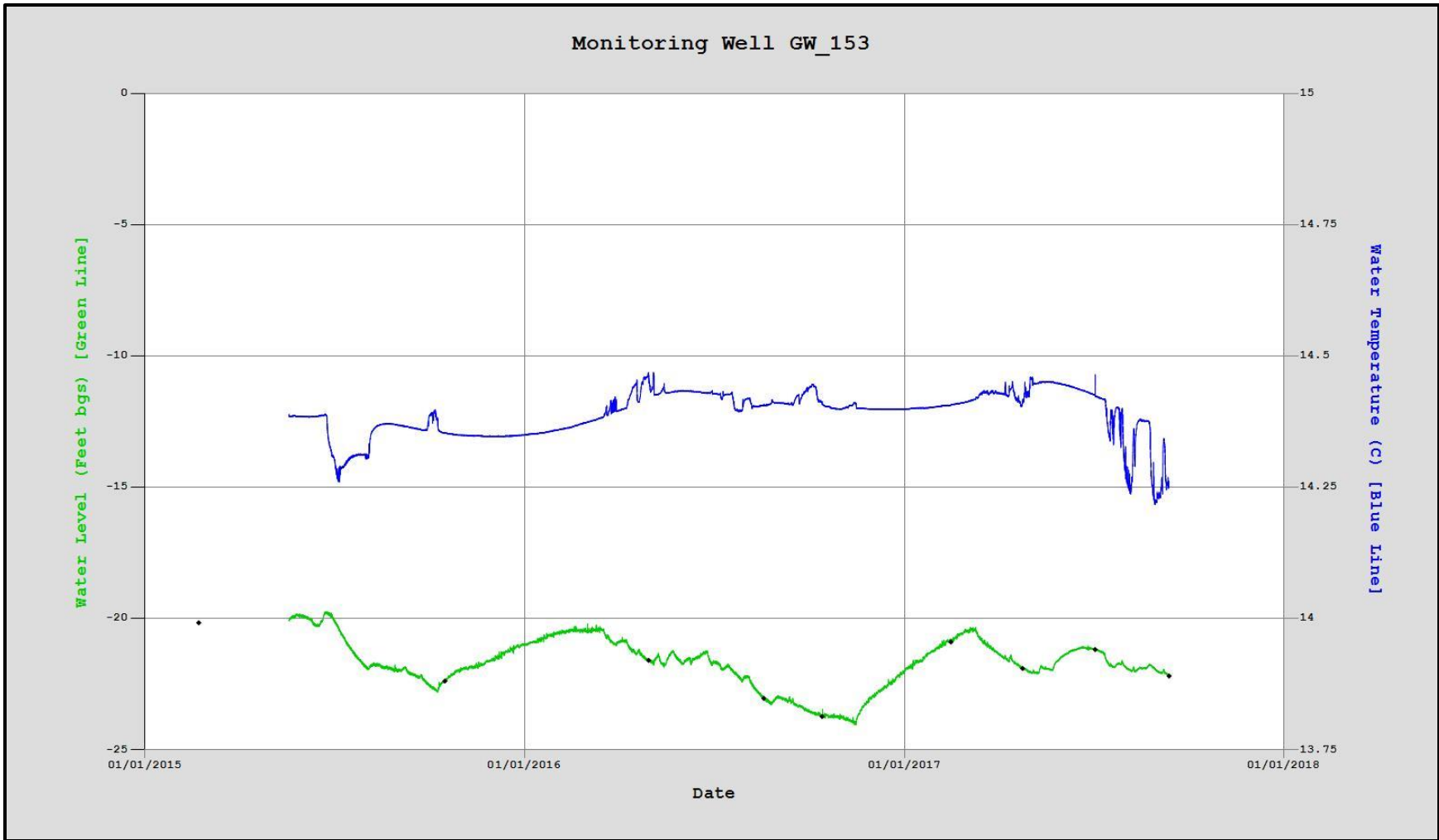
• Manual Water Level Measurements

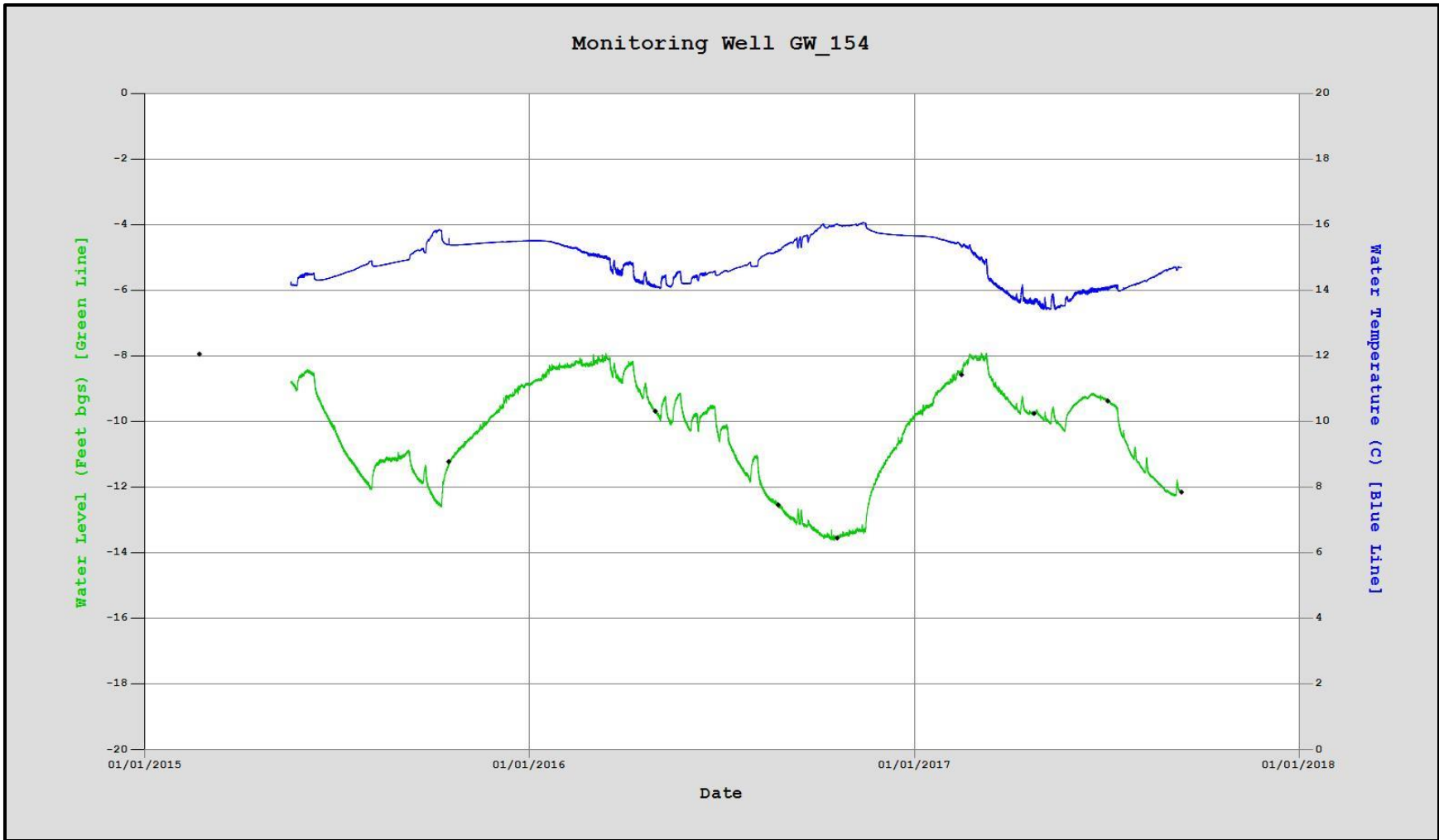


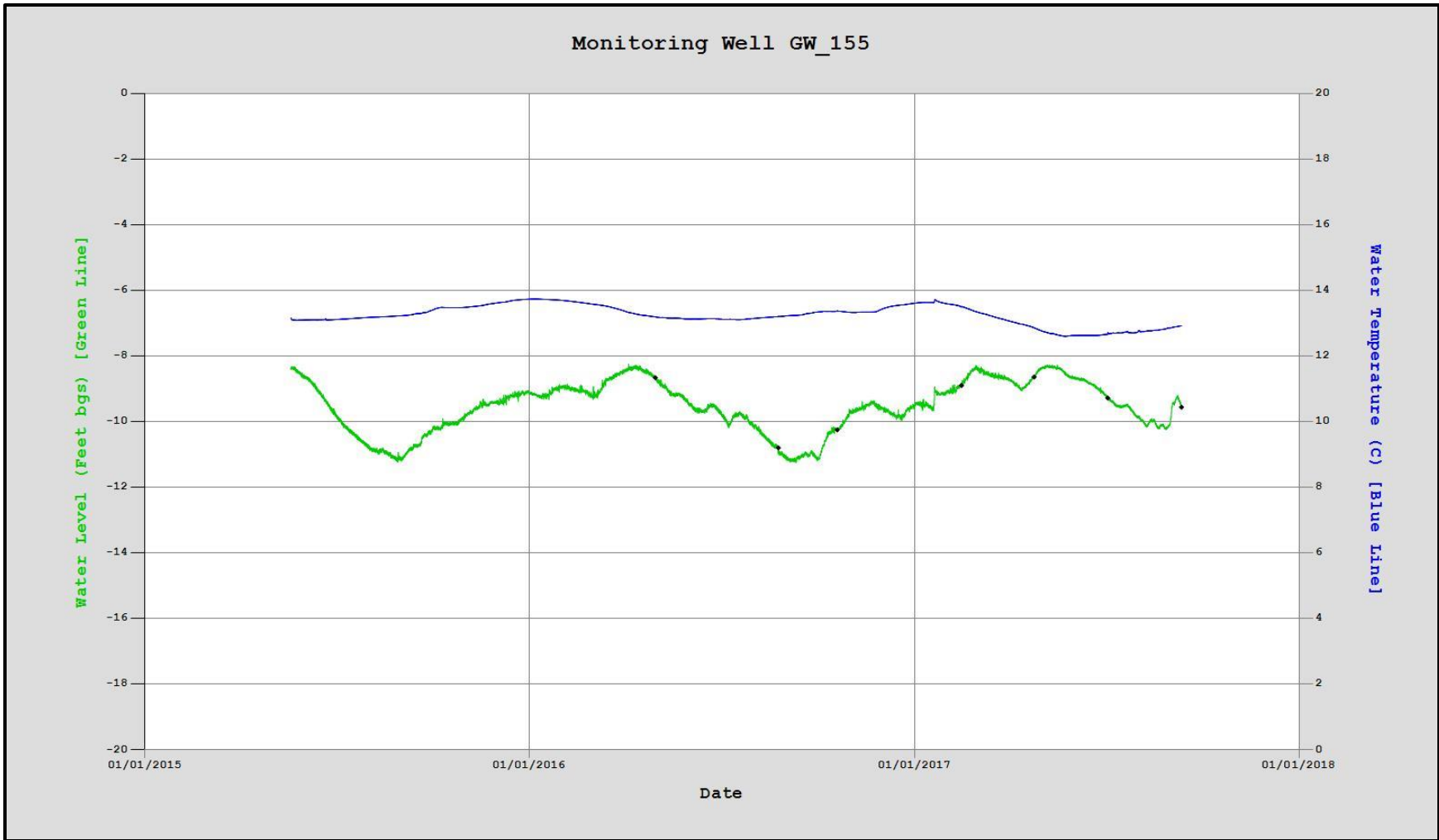
Monitoring Well GW_148

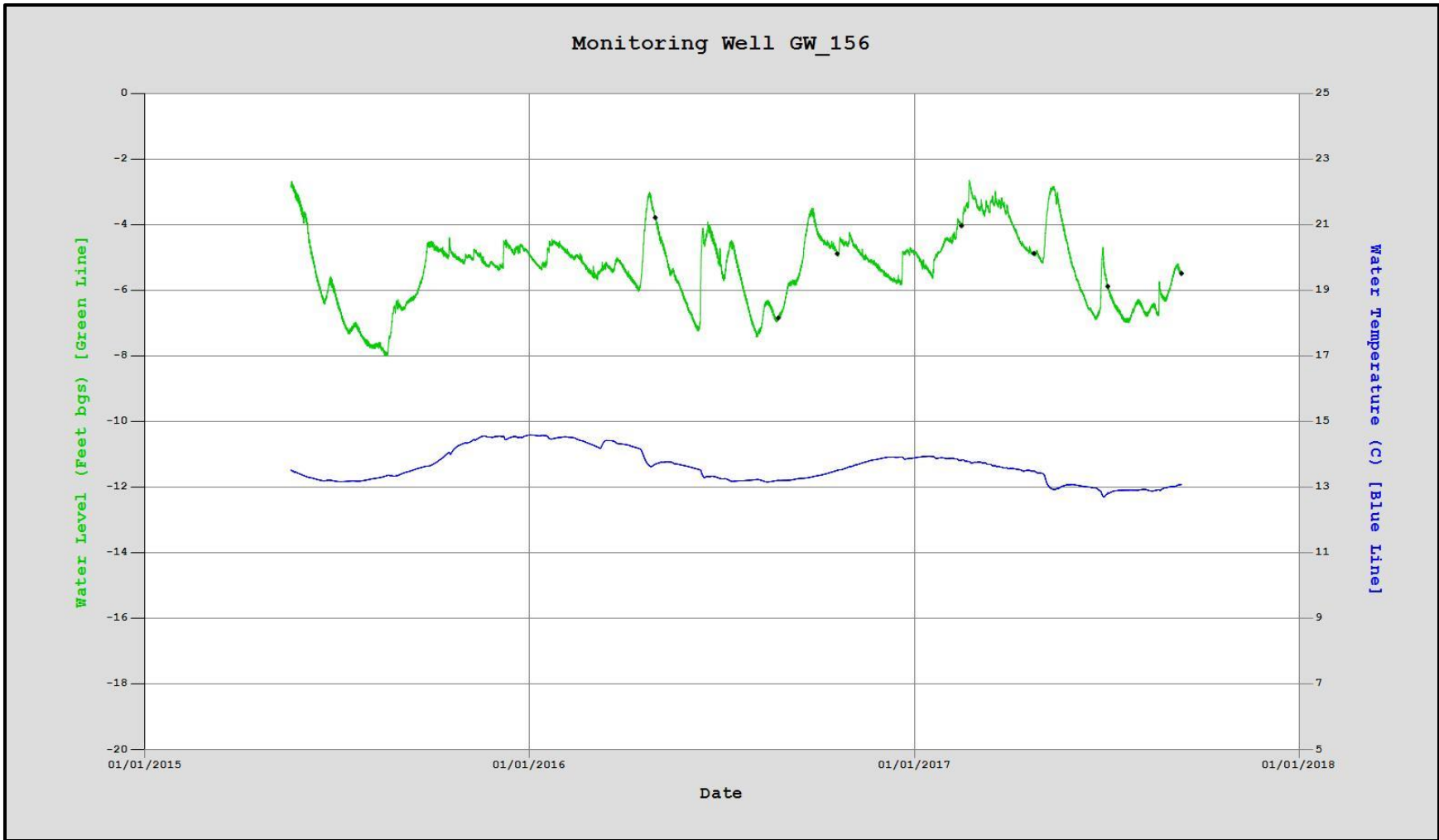


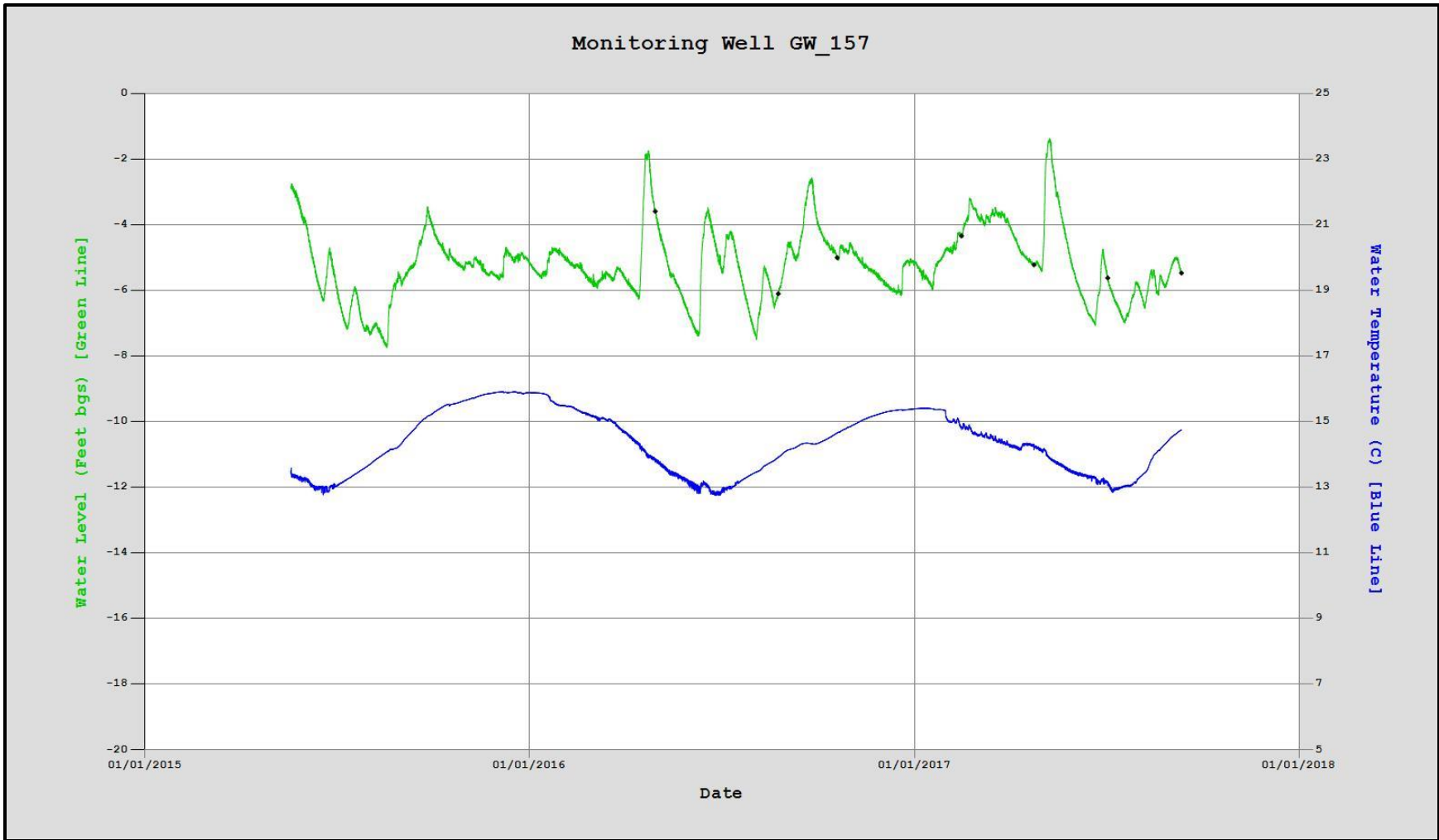




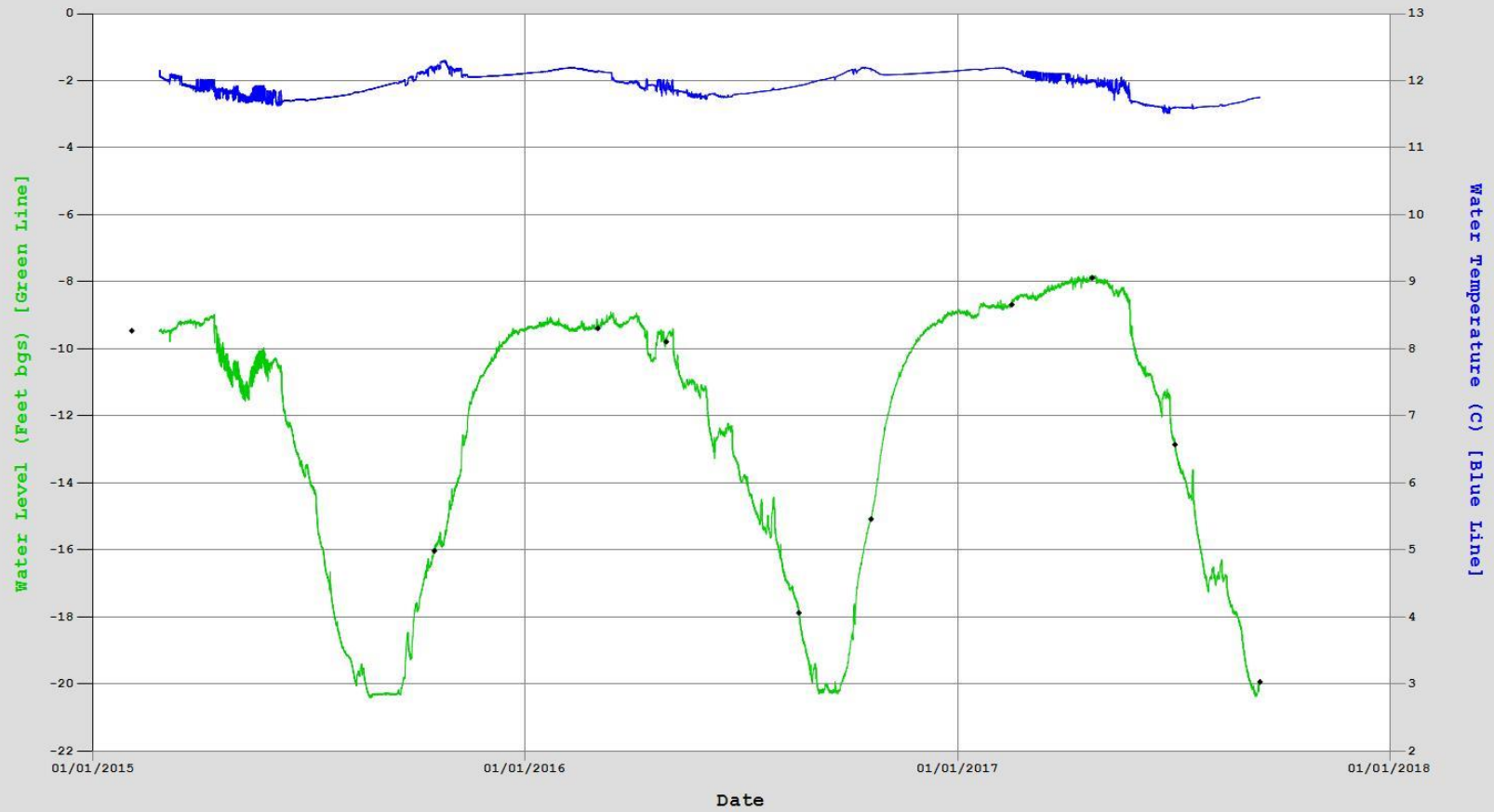


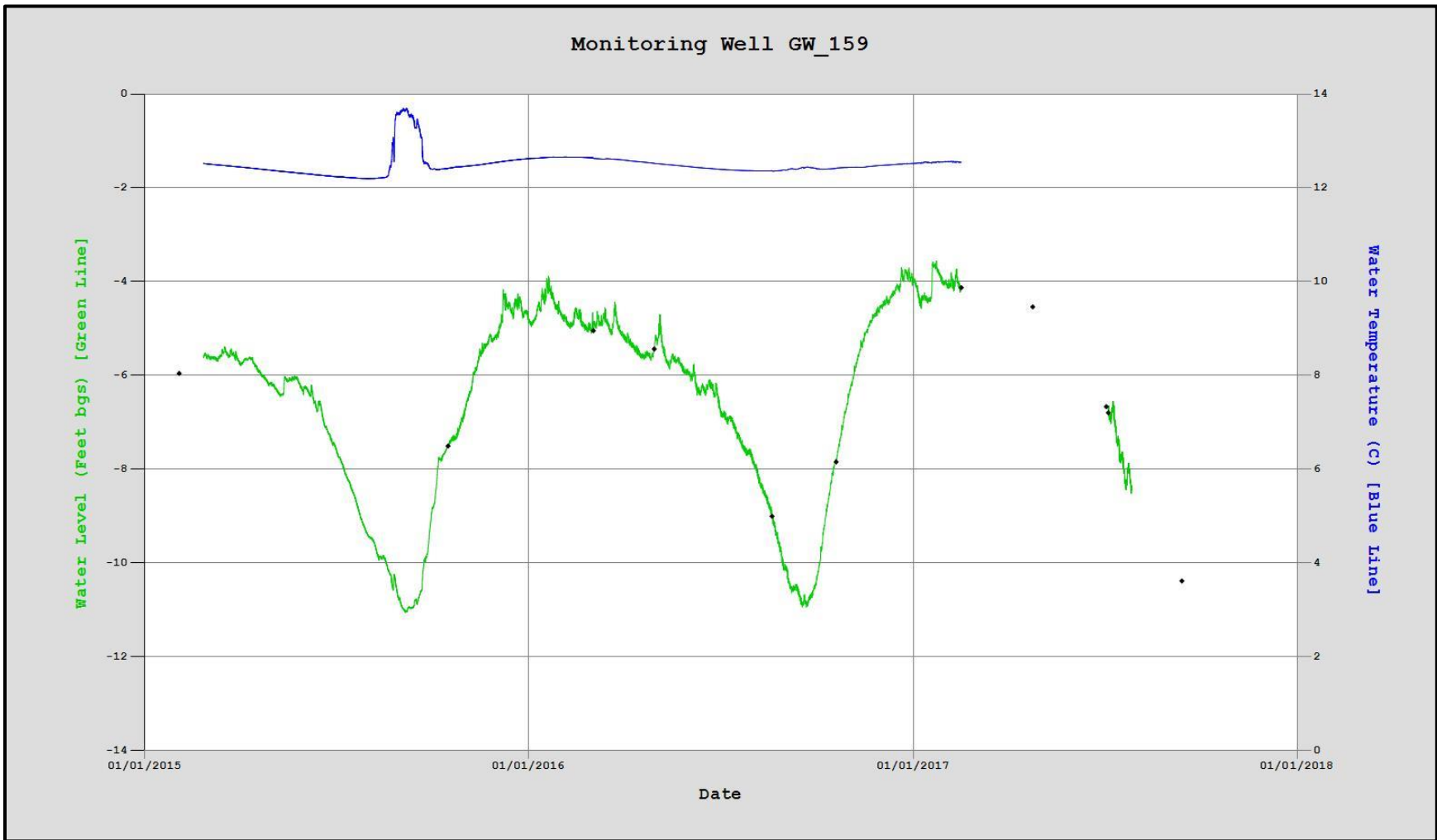






Monitoring Well GW_158





APPENDIX B - WATER & SOIL QUALITY RESULTS FOR WY2017

Download Water and Soil Quality Data (Lab reports and electronic data)

www.wbwc.org/images/Projects/AR/Reports/WY2017_Data.zip



| | | | | |
|----------------|----------------------------|--------------------------|-----------------------|-----------------------------|
| Burlington, WA | Corporate Laboratory (a) | 1620 S Walnut St | Burlington, WA 98233 | 800.755.9295 • 360.757.1400 |
| Bellingham, WA | Microbiology (b) | 805 Orchard Dr Ste 4 | Bellingham, WA 98225 | 360.715.1212 |
| Portland, OR | Microbiology/Chemistry (c) | 9150 SW Pioneer Ct Ste W | Wilsonville, OR 97070 | 503.682.7802 |
| Corvallis, OR | Microbiology (d) | 540 SW Third Street | Corvallis, OR 97333 | 541.753.4946 |

March 13, 2017

Page 1 of 1

Mr. Steve Patten
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862
RE: 17-04511 - Stiller Pond

Dear Mr. Steve Patten,

Your project: Stiller Pond, was received on Friday March 03, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

A handwritten signature in blue ink that reads "Pat Miller".

Patrick Miller, MS
QA Officer

Enclosures: Data Report
QC Reports
Chain of Custody




Data Report

Client Name: Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

Reference Number: **17-04511**
Project: **Stiller Pond**

Report Date: 3/13/17

Date Received: 3/3/17
Approved by: anp,bj,rnw
Authorized by:


Patrick Miller, MS
QA Officer

| Sample Description: GW-136 Stiller Pond | | | | | | | | | | Sample Date: 3/2/17 10:45 am | | |
|---|-------------------------------------|-----------------|-------|--------|-------|-----|--------------------------|-----|----------------------------|------------------------------|---------------|---------|
| Lab Number: 10598 | | Sample Comment: | | | | | | | Collected By: Steve Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 155 | 10 | | mg/L | 1.0 | SM2540 C | a | 3/3/17 | LRS | TDS_170303 | |
| 14797-55-8 | NITRATE-N | 0.58 | 0.01 | 0.002 | mg/L | 1.0 | SM4500-NO3 F | a | 3/3/17 | ANP | NO3NO2_170303 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.24 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 3/3/17 | RMW | OPHOS_170303 | |
| 7439-89-6 | IRON | 0.26 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7/3010A | a | 3/7/17 | ANP | 200.7_170307b | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.290 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 3/10/17 | RMW | tphos_170310 | |

| Sample Description: GW-145 Stiller Pond | | | | | | | | | | Sample Date: 3/2/17 11:05 am | | |
|---|-------------------------------------|-----------------|-------|--------|-------|-----|--------------------------|-----|----------------------------|------------------------------|---------------|---------|
| Lab Number: 10599 | | Sample Comment: | | | | | | | Collected By: Steve Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 268 | 10 | | mg/L | 1.0 | SM2540 C | a | 3/3/17 | LRS | TDS_170303 | |
| 14797-55-8 | NITRATE-N | 3.44 | 0.01 | 0.002 | mg/L | 1.0 | SM4500-NO3 F | a | 3/3/17 | ANP | NO3NO2_170303 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.15 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 3/3/17 | RMW | OPHOS_170303 | |
| 7439-89-6 | IRON | 0.06 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7/3010A | a | 3/7/17 | ANP | 200.7_170307b | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.141 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 3/10/17 | RMW | tphos_170310 | |

| Sample Description: GW-146 Stiller Pond | | | | | | | | | | Sample Date: 3/2/17 10:25 am | | |
|---|-------------------------------------|-----------------|-------|--------|-------|-----|--------------------------|-----|----------------------------|------------------------------|---------------|---------|
| Lab Number: 10600 | | Sample Comment: | | | | | | | Collected By: Steve Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 361 | 10 | | mg/L | 1.0 | SM2540 C | a | 3/3/17 | LRS | TDS_170303 | |
| 14797-55-8 | NITRATE-N | 7.49 | 0.05 | 0.002 | mg/L | 5.0 | SM4500-NO3 F | a | 3/3/17 | ANP | NO3NO2_170303 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.12 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 3/3/17 | RMW | OPHOS_170303 | |
| 7439-89-6 | IRON | 0.05 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7/3010A | a | 3/7/17 | ANP | 200.7_170307b | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.101 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 3/10/17 | RMW | tphos_170310 | |

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor

Data Report

| Sample Description: GW-147 Stiller Pond | | | | | | | | | | Sample Date: 3/2/17 9:45 am | | |
|---|-----------|-----------------|-----|-----|-------|----|--------|-----|----------|-----------------------------|-------|---------|
| Lab Number: 10601 | | Sample Comment: | | | | | | | | Collected By: Steve Patten | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |

| | | | | | | | | | | | | |
|------------|------------------------------|--------|-------|--------|------|-----|--------------------------|---|---------|-----|---------------|--|
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 263 | 10 | | mg/L | 1.0 | SM2540 C | a | 3/3/17 | LRS | TDS_170303 | |
| 14797-55-8 | NITRATE-N | 4.36 | 0.01 | 0.002 | mg/L | 1.0 | SM4500-NO3 F | a | 3/3/17 | ANP | NO3NO2_170303 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.19 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 3/3/17 | RMW | OPHOS_170303 | |
| 7439-89-6 | IRON | 0.03 J | 0.050 | 0.0012 | mg/L | 1.0 | 200.7/3010A | a | 3/7/17 | ANP | 200.7_170307b | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.179 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 3/10/17 | RMW | tphos_170310 | |

| Sample Description: Field Dup Stiller Pond | | | | | | | | | | Sample Date: 3/2/17 9:45 am | | |
|--|-----------|-----------------|-----|-----|-------|----|--------|-----|----------|-----------------------------|-------|---------|
| Lab Number: 10602 | | Sample Comment: | | | | | | | | Collected By: Steve Patten | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |

| | | | | | | | | | | | | |
|------------|------------------------------|--------|-------|--------|------|-----|--------------------------|---|---------|-----|---------------|--|
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 262 | 10 | | mg/L | 1.0 | SM2540 C | a | 3/3/17 | LRS | TDS_170303 | |
| 14797-55-8 | NITRATE-N | 4.30 | 0.01 | 0.002 | mg/L | 1.0 | SM4500-NO3 F | a | 3/3/17 | ANP | NO3NO2_170303 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.19 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 3/3/17 | RMW | OPHOS_170303 | |
| 7439-89-6 | IRON | 0.04 J | 0.050 | 0.0012 | mg/L | 1.0 | 200.7/3010A | a | 3/7/17 | ANP | 200.7_170307b | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.191 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 3/10/17 | RMW | tphos_170310 | |

| Sample Description: Trip Blank Stiller Pond | | | | | | | | | | Sample Date: 3/2/17 9:45 am | | |
|---|-----------|-----------------|-----|-----|-------|----|--------|-----|----------|-----------------------------|-------|---------|
| Lab Number: 10603 | | Sample Comment: | | | | | | | | Collected By: Steve Patten | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |

| | | | | | | | | | | | | |
|------------|------------------------------|-------|-------|--------|------|-----|--------------------------|---|---------|-----|---------------|--|
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | ND | 10 | | mg/L | 1.0 | SM2540 C | a | 3/3/17 | LRS | TDS_170303 | |
| 14797-55-8 | NITRATE-N | ND | 0.01 | 0.002 | mg/L | 1.0 | SM4500-NO3 F | a | 3/3/17 | ANP | NO3NO2_170303 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.003 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 3/3/17 | RMW | OPHOS_170303 | |
| 7439-89-6 | IRON | ND | 0.050 | 0.0012 | mg/L | 1.0 | 200.7/3010A | a | 3/7/17 | ANP | 200.7_170307b | |
| 7723-14-0 | TOTAL PHOSPHORUS | ND | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 3/10/17 | RMW | tphos_170310 | |

| Sample Description: Source Stiller Pond | | | | | | | | | | Sample Date: 3/2/17 10:05 am | | |
|---|-----------|-----------------|-----|-----|-------|----|--------|-----|----------|------------------------------|-------|---------|
| Lab Number: 10604 | | Sample Comment: | | | | | | | | Collected By: Steve Patten | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |

| | | | | | | | | | | | | |
|------------|------------------------------|-------|-------|--------|------|-----|--------------------------|---|---------|-----|---------------|--|
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 99 | 10 | | mg/L | 1.0 | SM2540 C | a | 3/3/17 | LRS | TDS_170303 | |
| 14797-55-8 | NITRATE-N | 1.45 | 0.01 | 0.002 | mg/L | 1.0 | SM4500-NO3 F | a | 3/3/17 | ANP | NO3NO2_170303 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.13 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 3/3/17 | RMW | OPHOS_170303 | |
| 7439-89-6 | IRON | 0.22 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7/3010A | a | 3/7/17 | ANP | 200.7_170307b | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.145 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 3/10/17 | RMW | tphos_170310 | |

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor



SAMPLE INDEPENDENT
QUALITY CONTROL REPORT

Calibration Check

Reference Number: **17-04511**

Report Date: 03/13/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|--------------------|--------|------------|-------|------------|------------|---------|--------------|---------|---------|
| 200.7_170307B | 2 IRON | 0.97 | 1 | mg/L | 200.7 | 97 | 90-110 | CAL | | |
| ophos_170303 | 0 ORTHO-PHOSPHATE | 1.04 | 1.00 | mg/L | SM4500-P F | 104 | 85-115 | CAL | | |
| tphos_170310 | 0 TOTAL PHOSPHORUS | 0.0966 | 0.100 | mg/L | SM4500-P F | 97 | 85-115 | CAL | | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: **17-04511**

Report Date: 03/13/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|-------------|--------|------------|-------|--------------|------------|---------|--------------|---------|---------|
| 200.7_170307B | 0 IRON | 0.47 | 0.5 | mg/L | 200.7 | 94 | 85-115 | LFB | | |
| NO3NO2_17030: | 0 NITRATE-N | 1.98 | 2.00 | mg/L | SM4500-NO3 F | 99 | 90-110 | LFB | | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT
QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **17-04511**

Report Date: 03/13/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|--------------------|--------|------------|-------|------------|------------|---------|--------------|---------|---------|
| 200.7_170307B | 0 IRON | ND | | mg/L | 200.7 | 0-0 | | LRB | | |
| ophos_170303 | 0 ORTHO-PHOSPHATE | ND | | mg/L | SM4500-P F | 0-0 | | LRB | | |
| tphos_170310 | 0 TOTAL PHOSPHORUS | ND | | mg/L | SM4500-P F | 0-0 | | LRB | | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT
QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-04511**

Report Date: 03/13/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|--------------------------------|--------|------------|-------|------------|------------|---------|--------------|---------|---------|
| 200.7_170307B | 0 IRON | ND | | mg/L | 200.7 | | 0-0 | | MB | |
| ophos_170303 | 0 ORTHO-PHOSPHATE | ND | | mg/L | SM4500-P F | | 0-0 | | MB | |
| TDS_170303 | 0 TOTAL DISSOLVED SOLIDS (TDS) | ND | | mg/L | SM2540 C | | 0-3 | | MB | |
| tphos_170310 | 0 TOTAL PHOSPHORUS | ND | | mg/L | SM4500-P F | | 0-0 | | MB | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-04511**

Report Date: 03/13/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|--------------------------------|--------|------------|-------|------------|------------|---------|--------------|---------|---------|
| 200.7_170307B | 0 IRON | 1.94 | 2 | mg/L | 200.7 | 97 | 95-105 | | QCS | |
| ophos_170303 | 0 ORTHO-PHOSPHATE | 0.750 | 0.719 | mg/L | SM4500-P F | 104 | 90-110 | | QCS | |
| TDS_170303 | 0 TOTAL DISSOLVED SOLIDS (TDS) | 502 | 500 | mg/L | SM2540 C | 100 | 80-120 | | QCS | |
| tphos_170310 | 0 TOTAL PHOSPHORUS | 0.165 | 0.153 | mg/L | SM4500-P F | 108 | 90-110 | | QCS | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

| Batch | Sample | Analyte | Result | Duplicate | | Units | %RPD | Limits | QC | | Comments |
|----------------------|--------|------------------------------|--------|-----------|--|-------|------|--------|-----------|------|----------|
| | | | | Result | | | | | Qualifier | Type | |
| Duplicate | | | | | | | | | | | |
| NO3NO2_170303 | | | | | | | | | | | |
| | 10598 | NITRATE-N | 0.58 | 0.60 | | mg/L | 3.4 | 0-20 | | | DUP |
| OPHOS_170303 | | | | | | | | | | | |
| | 10385 | ORTHO-PHOSPHATE | 0.24 | 0.24 | | mg/L | 0.0 | 0-20 | | | DUP |
| TDS_170303 | | | | | | | | | | | |
| | 9899 | TOTAL DISSOLVED SOLIDS (TDS) | ND | ND | | mg/L | NA | 0-10 | | | DUP |
| | 10604 | TOTAL DISSOLVED SOLIDS (TDS) | 99 | 99 | | mg/L | 0.0 | 0-10 | | | DUP |
| tphos_170310 | | | | | | | | | | | |
| | 10385 | TOTAL PHOSPHORUS | 0.348 | 0.337 | | mg/L | 3.2 | 0-20 | | | DUP |
| | 10604 | TOTAL PHOSPHORUS | 0.145 | 0.153 | | mg/L | 5.4 | 0-20 | | | DUP |
| | 11153 | TOTAL PHOSPHORUS | 0.059 | 0.0676 | | mg/L | 13.6 | 0-20 | | | DUP |

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt



| Batch | Sample | Analyte | Result | Duplicate | | Spike Conc | Units | Percent Recovery | | Limits* | %RPD | Limits* | QC Qualifier | Type | Comments |
|---|--------|------------------|--------|--------------|--------------|------------|-------|------------------|-----|---------|-------|---------|--------------|------|----------|
| | | | | Spike Result | Spike Result | | | MS | MSD | | | | | | |
| Laboratory Fortified Matrix (MS) | | | | | | | | | | | | | | | |
| NO3NO2_170303 | | | | | | | | | | | | | | | |
| | 10598 | NITRATE-N | 0.58 | 1.29 | 1.19 | 0.50 | mg/L | 142 | 122 | 80-120 | 15.2 | 0-20 | IM | LFM | |
| OPHOS_170303 | | | | | | | | | | | | | | | |
| | 10385 | ORTHO-PHOSPHATE | 0.24 | 1.15 | 1.19 | 1.00 | mg/L | 91 | 95 | 70-130 | 4.3 | 0-20 | | LFM | |
| | 10603 | ORTHO-PHOSPHATE | 0.003 | 0.897 | 1.01 | 1.00 | mg/L | 89 | 101 | 70-130 | 11.9 | 0-20 | | LFM | |
| tphos_170310 | | | | | | | | | | | | | | | |
| | 10385 | TOTAL PHOSPHORUS | 0.348 | 0.375 | 0.349 | 0.050 | mg/L | 54 | 2 | 70-130 | 185.7 | 0-20 | IS | LFM | |
| | 10604 | TOTAL PHOSPHORUS | 0.145 | 0.197 | 0.207 | 0.050 | mg/L | 104 | 124 | 70-130 | 17.5 | 0-20 | | LFM | |
| | 11153 | TOTAL PHOSPHORUS | 0.059 | 0.129 | 0.124 | 0.050 | mg/L | 140 | 130 | 70-130 | 7.4 | 0-20 | IM | LFM | |

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 17-04511

Report Date: 03/13/17

| Qualifier | Definition |
|-----------|---|
| IM | Matrix induced bias assumed |
| IS | The ratio of the spike concentration to sample background was too low to meet performance criteria |
| J | Indicates an estimated concentration. This occurs when an analyte concentration is below the calibration curve but is above the method detection limit. |

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

Prep Method Definitions

Reference Number: 17-04511

Report Date: 03/13/17

| Prep Method | Definition |
|---------------|---|
| 3010A | Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by FLAA or ICP |
| SM4500-P B(5) | Total P Persulfate Digestion |



ANALYTICAL
Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

Chain of Custody / Analysis Request (Please complete all applicable shaded sections)

| | | |
|---|---|--|
| Report to: Walla Walla Basin Watershed Cour | Bill to: Walla Walla Basin Watershed Council | 17-04511 10598 - 10604 |
| Ship Address: 810 S Main Street | Address: 810 South Main Street | |
| City: Milton-Freewater St: OR Zip: 97862 | City: Milton-Freewater St: OR Zip: 97862 | Check Regulatory Program <input type="checkbox"/> Safe Drinking Water Act <input type="checkbox"/> Clean Water Act <input type="checkbox"/> RCRA / CERCLA <input checked="" type="checkbox"/> Other |
| Attn: Steven Patten | Phone: FAX: | |
| Phone: 541.938-2170 FAX: | P.O.#: Attn: | |
| Email: steven.patten@wwbwc.org | <input type="checkbox"/> Visa <input type="checkbox"/> M/C <input type="checkbox"/> A/E Expires / | |
| Project: Stiller Pond | Card#: | |

Analyses Requested

- Instructions**
- Use one line per sample Location.
 - Be specific in analysis requests.
 - (NEW) List each metal individually (NEW)**
 - Check off analyses to be performed for each sample Location.
 - Enter number of containers.

Turn Around Time Required

Standard
 Half-time (50% surcharge)
 Quickest (100% surcharge) Phone Call Req.
 Emergency (Phone Call Req.)



| Field ID | Location | Grab/Comp. | Sample Matrix* | Date | Time | Fe | Fe (Field Dup) | Fe (Trip Blank) | TDS, NO3, o-PO4 | TDS, NO3, o-PO4 (Field Dup) | TDS, NO3, o-PO4 (Trip Blank) | Total P | Total P (Field Dup) | Number of Containers | Special Instructions Conditions on Receipt |
|----------|--------------|------------|----------------|--------|-------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------|---|
| 1 | Stiller Pond | GRAB | GW | 3-2-17 | 10:45 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 2 | | GRAB | GW | 3-2-17 | 11:05 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 3 | | GRAB | GW | 3-2-17 | 10:25 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 4 | | GRAB | GW | 3-2-17 | 9:45 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 5 | | GRAB | GW | 3-2-17 | 9:45 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| 6 | | GRAB | W | 3-2-17 | 9:45 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 7 | | GRAB | SW | 3-2-17 | 10:05 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 8 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 9 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 10 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |

Sampled by: STEVEN PATTEN Phone: 541-938-2170 FAX: _____ Email: steven.patten@wwbwc.org Total Containers _____

Sample Receipt Request (Must include FAX or Email) * W - water SW - surface water WW - waste water OL - oil
 DW - drinking water GW - Ground water S - soil Other _____

| Relinquished by | Date | Time | Received by | Date | Time |
|-----------------|--------|-------|-------------|--------|-------|
| STEVEN PATTEN | 3-2-17 | 12:00 | WPS | 3-2-17 | 12:00 |
| | | | DG | 3/3/17 | 0915 |

Custody seals intact Yes No N/A
 Sample temp 10 C satisfactory Yes No N/A
 Samples received intact Yes No N/A
 Chain of custody & labels agree Yes No N/A



ANALYTICAL
Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

Chain of Custody / Analysis Request (Please complete all applicable shaded sections)

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| | | |
|---|---|--|
| Report to: Walla Walla Basin Watershed Cour | Bill to: Walla Walla Basin Watershed Council | For Lab Use Only Ref # |
| Ship Address: 810 S Main Street | Address: 810 South Main Street | |
| City: Milton-Freewater St: OR Zip: 97862 | City: Milton-Freewater St: OR Zip: 97862 | Check Regulatory Program <input type="checkbox"/> Safe Drinking Water Act <input type="checkbox"/> Clean Water Act <input type="checkbox"/> RCRA / CERCLA <input checked="" type="checkbox"/> Other |
| Attn: Steven Patten | Phone: FAX: | |
| Phone: 541.938-2170 FAX: | P.O.#: Attn: | |
| Email: steven.patten@wwbwc.org | <input type="checkbox"/> Visa <input type="checkbox"/> M/C <input type="checkbox"/> A/E Expires / | |
| Project: Stiller Pond | Card#: | |

Analyses Requested

Instructions

- Use one line per sample Location.
- Be specific in analysis requests.
- (NEW) List each metal individually (NEW)**
- Check off analyses to be performed for each sample Location.
- Enter number of containers.

Turn Around Time Required

Standard
 Half-time (50% surcharge)
 Quickest (100% surcharge) Phone Call Req.
 Emergency (Phone Call Req.)



CO031696

Special Instructions
Conditions on Receipt

| Field ID | Location | Grab/Comp. | Sample Matrix* | Date | Time | Total P (Trip Blank) | TS, NO3, Total P | TS, NO3, Total P (Field Dup) | | | | | | | Number of Containers | Special Instructions Conditions on Receipt |
|----------|---------------|------------|----------------|--------|-------|-------------------------------------|--------------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|----------------------|---|
| 1 | GLW-136 | GRAB | GLW | 3-2-17 | 10:45 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 2 | GLW-145 | GRAB | GLW | 3-2-17 | 11:05 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 3 | GLW-146 | GRAB | GLW | 3-2-17 | 10:25 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 4 | GLW-147 | GRAB | GLW | 3-2-17 | 9:45 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 5 | FIELD DUP-147 | GRAB | GLW | 3-2-17 | 9:45 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 6 | TRIP BLANK | GRAB | W | 3-2-17 | 9:45 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 7 | SOURCE | GRAB | SW | 3-2-17 | 10:05 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 8 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 9 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 10 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |

Sampled by: STEVEN PATTEN Phone: 541-938-2170 FAX: _____ Email: steven.patten@wwbwc.org Total Containers _____

Sample Receipt Request (Must include FAX or Email) * W - water SW - surface water WW - waste water OL - oil
 DW - drinking water GW - Ground water S - soil Other _____

| Relinquished by | Date | Time | Received by | Date | Time | Custody seals intact | Yes | No | N/A |
|--------------------------|--------|-------|-------------|--------|-------|----------------------|-------------------------------------|--------------------------|-------------------------------------|
| STEVEN PATTEN <u>SPB</u> | 3-2-17 | 12:00 | UPS | 3-2-17 | 12:00 | UPS | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | | DB | 3/3/17 | 09:15 | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



| | | | | | |
|----------------|----------------------------|--------------|--------------------------|-----------------------|--------------|
| Burlington, WA | Corporate | 800 755 4272 | 1000 1st St | Burlington, WA 98225 | 360.715.1212 |
| Bellingham, WA | Microbiology (b) | | 805 Orchard Dr Ste 4 | Bellingham, WA 98225 | 360.715.1212 |
| Portland, OR | Microbiology/Chemistry (c) | | 9150 SW Pioneer Ct Ste W | Wilsonville, OR 97070 | 503.682.7802 |
| Corvallis, OR | Microbiology (d) | | 540 SW Third Street | Corvallis, OR 97333 | 541.753.4946 |

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

3/3/2017

Sample Receipt

Page 1 of 7

Mr. Steve Patten
 Walla Walla Basin Watershed Council
 810 South Main Street
 Milton-Freewater, OR 97862

We received the following samples for project "**Stiller Pond**" on **3/3/2017** at **9:15:00AM**. The turnaround is **Standard**; this project is expected to be completed by **03/17/2017**. The temperature of the sample cooler was **1C**. Listed below are the samples, analytical methods and parameters to be tested. If you have any questions concerning this project please refer to reference number **17-04511**.

| | | |
|-----------------------------|------------------------------------|-------------------------------|
| Lab Sample ID: 10598 | Sample Desc: GW-136 - Stiller Pond | Date Sampled: 3/2/17 10:45 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

Prep Method: 3010A - Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by FLAA or ICP

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|-------------------------------|
| Lab Sample ID: 10599 | Sample Desc: GW-145 - Stiller Pond | Date Sampled: 3/2/17 11:05 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

Prep Method: 3010A - Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by FLAA or ICP

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|-------------------------------|
| Lab Sample ID: 10600 | Sample Desc: GW-146 - Stiller Pond | Date Sampled: 3/2/17 10:25 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

Prep Method: 3010A - Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by FLAA or ICP

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|------------------------------|
| Lab Sample ID: 10601 | Sample Desc: GW-147 - Stiller Pond | Date Sampled: 3/2/17 9:45 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

Prep Method: 3010A - Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by FLAA or ICP

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|---------------------------------------|------------------------------|
| Lab Sample ID: 10602 | Sample Desc: Field Dup - Stiller Pond | Date Sampled: 3/2/17 9:45 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

Prep Method: 3010A - Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by FLAA or ICP

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|--|------------------------------|
| Lab Sample ID: 10603 | Sample Desc: Trip Blank - Stiller Pond | Date Sampled: 3/2/17 9:45 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

Prep Method: 3010A - Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by FLAA or ICP

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|-------------------------------|
| Lab Sample ID: 10604 | Sample Desc: Source - Stiller Pond | Date Sampled: 3/2/17 10:05 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

Prep Method: 3010A - Acid Digestion of Aqueous Samples and Extracts for Total Metals for Analysis by FLAA or ICP

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS



03 March 2017

Vista Project ID: 1700290

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862
RE: Stiller Pond

Dear Mr. Patten,

The sample(s) listed in the sample inventory were received by Vista Analytical Laboratory on 03-Mar-17.

Please find attached:

- Terms and Conditions
- Sample Inventory Report
- Chain-of-Custody
- Sample Log-in Checklist
- Additional sample documentation (if applicable)

Analytical results are scheduled to be reported to you on 24-Mar-17.

If you have any questions regarding the status of the work associated with these samples, please contact me at mmaier@vista-analytical.com or (916) 673-1520.

Sincerely,
Martha Maier
Laboratory Director

TERMS AND CONDITIONS

ACCEPTANCE

These terms and conditions are incorporated into, and made a part of, every agreement for services between **Vista Analytical Laboratory, Inc.** ("Vista") and its client ("Client"). The Client accepts these terms and conditions by agreeing to purchase services from Vista or by sending samples to Vista.

PAYMENT

The Client shall pay in full within 30 days after the date that Vista invoices it for services rendered. No payment terms or conditions of purchase orders different from the terms of Vista will become part of any sales agreement, purchase order, or other document unless specifically approved in writing by Vista. Should suit be instituted to collect any debts of the undersigned, the client is responsible to pay all actual costs of collection and attorney's fees and interests on the past due amount at the highest rate legally available.

TURNAROUND TIME

Standard turnaround time is 21 days unless a shorter turnaround time is expressly agreed to by Vista. Turnaround time is defined as the number of calendar days between the first business day after Vista receives a sample or is authorized by the Client to perform an analysis on a sample, whichever occurs last, and the date that Vista transmits the final report for that sample to the Client. Rush orders, i.e., those that the Client requests to have analyzed in less than the standard turnaround time, will be subject to the additional charges set forth in the applicable quotation. Delays caused by acts of God, natural disasters, governmental actions, fires, floods and accidents, and other circumstances for which Vista is not responsible, shall not be counted in determining turnaround time.

SHIPPING

The Client is responsible for delivering its samples to Vista in good condition and the Client shall bear the risk of any loss of or damage to its samples during shipping. Vista reserves the right to refuse to accept delivery of, to refuse to analyze and/or to return any sample to the Client that is not delivered to Vista in good condition or that poses a health or safety risk. The Client shall pay the cost of returning such samples to it.

LIMITATION OF LIABILITY

Vista makes no representations, guarantees or warranties, express or implied, regarding the fitness of its reports for any particular use or purpose and Vista shall not be liable for consequential damages under any circumstance. The client's sole remedy is a refund of the amount that is paid Vista to analyze the sample in question. If Vista loses or damages a sample, after accepting it for analysis, Vista's liability shall not exceed the lesser of \$50 or the amount that the Client expended to obtain the sample.

INDEMNITY

The Client agrees to indemnify and defend Vista, and to hold Vista harmless, against any and all claims, actions, lawsuits, arbitration awards, judgements, damages, liabilities, expenses and costs, including attorneys' fees and court costs, arising out of, or related in any way to, the use to Vista's reports by the Client or by any third party who obtains Vista's reports from the Client.

Effective: 2/14/2007



Sample Inventory Report

| Vista Sample ID | Client Sample ID | Sampled | Received | Components/ Containers |
|-----------------|------------------|------------------------|-----------------|--|
| 1700290-01 | GW-136 | 02-Mar-17 10:45 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700290-02 | GW-145 | 02-Mar-17 11:05 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700290-03 | GW-146 | 02-Mar-17 10:25 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700290-04 | GW-147 | MS/MSD 02-Mar-17 09:45 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700290-05 | Source | 02-Mar-17 10:05 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700290-06 | Field Dup-147 | 02-Mar-17 09:45 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700290-07 | Field Blank | 02-Mar-17 09:45 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |



Sample Analysis Report

| Vista Sample ID | Client Sample ID | Requested Analysis | Status |
|------------------------|-------------------------|---------------------------|---------------|
| 1700290-01 | GW-136 | EPA Method 1668C | In Process |
| 1700290-02 | GW-145 | EPA Method 1668C | In Process |
| 1700290-03 | GW-146 | EPA Method 1668C | In Process |
| 1700290-04 | GW-147 | EPA Method 1668C | In Process |
| 1700290-05 | Source | EPA Method 1668C | In Process |
| 1700290-06 | Field Dup-147 | EPA Method 1668C | In Process |
| 1700290-07 | Field Blank | EPA Method 1668C | In Process |



CHAIN OF CUSTODY

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

FOR LABORATORY USE ONLY

Storage Secured

Laboratory Project ID: 1700290 Yes No

Storage ID: WR-2 C6 Temp: 0.5 °C

Project I.D.: STILLER POND P.O.# _____ Sampler: STEVEN PATTON / TARA PATTON
(Name)

TAT: (Check One): 2.9c
Standard: 21 Days
Rush (surcharge may apply):
 14 days 7 days Specify: _____

| | | | | | | | |
|---|-------------------------|----------------------------------|---|------------------------|-----------------------|----------------------------|-----------------|
| Invoice to: Name <u>CHRIS STREETS</u> | Company <u>WLBWC</u> | Address <u>810 S. MADU ST</u> | City <u>MADON-FREELAND</u> | State <u>OR</u> | Zip <u>97862</u> | Ph# <u>541-938-2170</u> | Fax# <u></u> |
| Relinquished by: (Signature and Printed Name) <u>STEVEN PATTON</u> | Date: <u>3-2-17</u> | Time: <u>12:00</u> | Received by: (Signature and Printed Name) <u>UPS</u> | Date: <u>3-2-17</u> | Time: <u>12:00</u> | | |
| Relinquished by: (Signature and Printed Name) <u>UPS</u> | Date: <u></u> | Time: <u></u> | Received by: (Signature and Printed Name) <u>Judith Ruyton Sydney Raughton</u> | Date: <u>3/3/17</u> | Time: <u>1028</u> | | |

See "Sample Log-in Checklist" for additional sample information

| Sample ID | Date | Time | Location/Sample Description | Quantity | Type | Matrix | Add Analysis(es) Requested | | | | | | | | | | | | | | | | | |
|----------------------|--------|-------|-----------------------------|----------|------|--------|----------------------------|----------------|-----------|-----------|----------------|-----------|-----------|----------------|-----------|--------|----------------|---------------|------|-----|--------|--|---|---|
| | | | | | | | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | TOTALS | COPLANAR PCB'S | 209 CONGENERS | PBDE | PAH | WHO-29 | | | |
| GW-136 | 3-2-17 | 10:15 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | X | |
| GW-145 | 3-2-17 | 11:05 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | X |
| GW-146 | 3-2-17 | 10:25 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | X |
| GW-147 | 3-2-17 | 9:45 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | X |
| SOURCE | 3-2-17 | 10:05 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | X |
| FIELD DWP-147 | 3-2-17 | 9:45 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | X |
| FIELD BLANK | 3-2-17 | 9:45 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | X |
| MATRIX SPIKE-147 | 3-2-17 | 9:45 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | X |
| MATRIX SPIKE DWP-147 | 3-2-17 | 9:45 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | X |

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: STEVEN PATTON
Company: WLBWC
Address: 810 S. MADU
City: MADON-FREELAND State: OR Zip: 97862
Phone: 541-938-2170 Fax: SAME
Email: STEVEN.PATTON@WLBWC.ORG

Container Types: A = 1 Liter Amber, G = Glass Jar
P = PUF, T = MM5 Train, O = Other _____

*Bottle Preservative Type: T = Thiosulfate,
O = Other _____

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper,
SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum
AQ = Aqueous, O = Other _____

WHITE - ORIGINAL

YELLOW - ARCHIVE

PINK - COPY

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700290 TAT 21

| | | | |
|-----------------------------------|--|-----------------------------|-----------------------------------|
| Samples Arrival: | Date/Time 3/3/17 1019 | Initials: SR | Location: WR-2 Shelf/Rack: N/A |
| Logged In: | Date/Time 3/3/17 1307 | Initials: BSB SR | Location: WR-2 Shelf/Rack: C6 |
| Delivered By: | FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> On Trac <input type="checkbox"/> DHL <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Other <input type="checkbox"/> | | |
| Preservation: | Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> | | |
| Temp °C: 1.2 (uncorrected) | Time: 1024 | Thermometer ID: DT-3 | |
| Temp °C: 0.5 (corrected) | Probe used: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| | YES | NO | NA |
|--|--|-------------------------------------|--|
| Adequate Sample Volume Received? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holding Time Acceptable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Container(s) Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Custody Seals Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Documentation Present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Airbill | Trk # 1262E3F70134213767 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Sample Container Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample Custody Seals Intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Chain of Custody / Sample Documentation Present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC Anomaly/Sample Acceptance Form completed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Preservation Documented: | Na ₂ S ₂ O ₃ <input type="checkbox"/> Trizma <input type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/> NA <input checked="" type="checkbox"/> |
| Shipping Container | Vista <input type="checkbox"/> Client <input checked="" type="checkbox"/> | Retain <input type="checkbox"/> | Return <input checked="" type="checkbox"/> Dispose <input type="checkbox"/> |

Comments: sample label ID:
 Field Blank A/B containers
 Field Dup -147
 GW -147
 Source
 GW-146
 GW -136 1 Liter each
 GW-145

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700 290 TAT 21

| | | | |
|-----------------------------------|--|-----------------------------|------------------------|
| Samples Arrival: | Date/Time <u>3/3/17 1019</u> | Initials: <u>SR</u> | Location: <u>WR-2</u> |
| | | | Shelf/Rack: <u>N/A</u> |
| Logged In: | Date/Time <u>3/3/17 1307</u> | Initials: <u>SR URSB</u> | Location: <u>WR-2</u> |
| | | | Shelf/Rack: <u>C6</u> |
| Delivered By: | FedEx <input type="checkbox"/> <u>UPS</u> <input checked="" type="checkbox"/> On Trac <input type="checkbox"/> DHL <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Other <input type="checkbox"/> | | |
| Preservation: | <u>Ice</u> <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> | | |
| Temp °C: <u>3.6</u> (uncorrected) | Time: <u>1032</u> | Thermometer ID: <u>DT-3</u> | |
| Temp °C: <u>2.9</u> (corrected) | Probe used: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| | YES | NO | NA |
|--|--|-------------------------------------|--|
| Adequate Sample Volume Received? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holding Time Acceptable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Container(s) Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Custody Seals Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Documentation Present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Airbill | Trk # <u>1Z 62E 3F7 01 0088 1831</u> | | |
| Sample Container Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample Custody Seals Intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Chain of Custody / Sample Documentation Present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC Anomaly/Sample Acceptance Form completed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Preservation Documented: | <input type="checkbox"/> Na ₂ S ₂ O ₃ | <input type="checkbox"/> Trizma | <input checked="" type="checkbox"/> NA |
| Shipping Container | <u>Vista</u> <input checked="" type="checkbox"/> | Client <input type="checkbox"/> | <u>Retain</u> <input checked="" type="checkbox"/> Return <input type="checkbox"/> Dispose <input type="checkbox"/> |

Comments: Sample Label ID:
GW-145 1 Liter each
GW-136 ↓
Matrix Spike -147 A/B
Matrix Spike Dup 147 ↓



March 24, 2017

Vista Work Order No. 1700290

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862

Dear Mr. Patten,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on March 03, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name 'Stiller Pond'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1700290

Case Narrative

Sample Condition on Receipt:

Seven aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

EPA Method 1668C

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

As requested, an MS/MSD was performed using sample "GW-147".

TABLE OF CONTENTS

| | |
|-------------------------|----|
| Case Narrative..... | 1 |
| Table of Contents..... | 3 |
| Sample Inventory..... | 4 |
| Analytical Results..... | 5 |
| Qualifiers..... | 42 |
| Certifications..... | 43 |
| Sample Receipt..... | 46 |

Sample Inventory Report

| Vista Sample ID | Client Sample ID | | Sampled | Received | Components/Containers |
|-----------------|------------------|--------|-----------------|-----------------|--|
| 1700290-01 | GW-136 | | 02-Mar-17 10:45 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700290-02 | GW-145 | | 02-Mar-17 11:05 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700290-03 | GW-146 | | 02-Mar-17 10:25 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700290-04 | GW-147 | MS/MSD | 02-Mar-17 09:45 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L |
| | | MS/MSD | | | Amber Glass NM Bottle, 1L |
| | | MS/MSD | | | Amber Glass NM Bottle, 1L |
| | | MS/MSD | | | Amber Glass NM Bottle, 1L |
| | | MS/MSD | | | Amber Glass NM Bottle, 1L |
| | | MS/MSD | | | Amber Glass NM Bottle, 1L |
| 1700290-05 | Source | | 02-Mar-17 10:05 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700290-06 | Field Dup-147 | | 02-Mar-17 09:45 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700290-07 | Field Blank | | 02-Mar-17 09:45 | 03-Mar-17 10:19 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |

ANALYTICAL RESULTS

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | | EPA Method 1668C | | | | |
|-------------------------|--------------|-----------------------------------|------|------------|---|--------------|-------|------|------------|
| Matrix: Aqueous | | QC Batch: B7C0079 | | | Lab Sample: B7C0079-BLK1 | | | | |
| Sample Size: 1.00 L | | Date Extracted: 15-Mar-2017 10:04 | | | Date Analyzed: 17-Mar-17 16:22 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | ND | 2.67 | | | PCB-44 | ND | 1.76 | | |
| PCB-2 | ND | 2.59 | | | PCB-45 | ND | 1.71 | | |
| PCB-3 | ND | 2.51 | | | PCB-46 | ND | 1.83 | | |
| PCB-4/10 | ND | 1.94 | | | PCB-47 | ND | 0.785 | | |
| PCB-5/8 | ND | 1.52 | | | PCB-48/75 | ND | 1.25 | | |
| PCB-6 | ND | 1.60 | | | PCB-50 | ND | 1.42 | | |
| PCB-7/9 | ND | 1.19 | | | PCB-51 | ND | 1.53 | | |
| PCB-11 | 3.83 | | | J | PCB-52/69 | ND | 1.38 | | |
| PCB-12/13 | ND | 1.29 | | | PCB-53 | ND | 1.55 | | |
| PCB-14 | ND | 1.12 | | | PCB-54 | ND | 1.19 | | |
| PCB-15 | ND | 1.14 | | | PCB-55 | ND | 1.08 | | |
| PCB-16/32 | ND | 0.840 | | | PCB-56/60 | ND | 1.10 | | |
| PCB-17 | ND | 1.27 | | | PCB-57 | ND | 1.14 | | |
| PCB-18 | ND | 1.37 | | | PCB-58 | ND | 1.10 | | |
| PCB-19 | ND | 1.67 | | | PCB-61/70 | ND | 1.12 | | |
| PCB-20/21/33 | ND | 0.565 | | | PCB-62 | ND | 1.22 | | |
| PCB-22 | ND | 1.22 | | | PCB-63 | ND | 1.06 | | |
| PCB-23 | ND | 1.47 | | | PCB-65 | ND | 1.30 | | |
| PCB-24/27 | ND | 0.976 | | | PCB-66/76 | ND | 1.11 | | |
| PCB-25 | ND | 1.37 | | | PCB-67 | ND | 1.16 | | |
| PCB-26 | ND | 1.31 | | | PCB-68 | ND | 1.09 | | |
| PCB-28 | ND | 0.555 | | | PCB-73 | ND | 1.24 | | |
| PCB-29 | ND | 1.34 | | | PCB-74 | ND | 1.09 | | |
| PCB-30 | ND | 1.10 | | | PCB-77 | ND | 1.08 | | |
| PCB-31 | ND | 0.562 | | | PCB-78 | ND | 1.19 | | |
| PCB-34 | ND | 1.31 | | | PCB-79 | ND | 1.07 | | |
| PCB-35 | ND | 1.22 | | | PCB-80 | ND | 0.959 | | |
| PCB-36 | ND | 1.20 | | | PCB-81 | ND | 1.10 | | |
| PCB-37 | ND | 1.14 | | | PCB-82 | ND | 3.33 | | |
| PCB-38 | ND | 1.24 | | | PCB-83 | ND | 2.10 | | |
| PCB-39 | ND | 1.13 | | | PCB-84/92 | ND | 2.73 | | |
| PCB-40 | ND | 1.92 | | | PCB-85/116 | ND | 2.49 | | |
| PCB-41/64/71/72 | ND | 1.24 | | | PCB-86 | ND | 3.49 | | |
| PCB-42/59 | ND | 1.31 | | | PCB-87/117/125 | ND | 2.25 | | |
| PCB-43/49 | ND | 1.41 | | | PCB-88/91 | ND | 2.75 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | | EPA Method 1668C | | | | |
|-------------------------|--------------|-----------------------------------|------|------------|---|--------------|-------|------|------------|
| Matrix: Aqueous | | QC Batch: B7C0079 | | | Lab Sample: B7C0079-BLK1 | | | | |
| Sample Size: 1.00 L | | Date Extracted: 15-Mar-2017 10:04 | | | Date Analyzed: 17-Mar-17 16:22 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 2.86 | | | PCB-136 | ND | 1.93 | | |
| PCB-90/101 | ND | 2.50 | | | PCB-137 | ND | 1.15 | | |
| PCB-93 | ND | 2.84 | | | PCB-138/163/164 | ND | 1.09 | | |
| PCB-94 | ND | 2.88 | | | PCB-139/149 | ND | 2.52 | | |
| PCB-95/98/102 | ND | 2.59 | | | PCB-140 | ND | 2.74 | | |
| PCB-96 | ND | 2.13 | | | PCB-141 | ND | 1.18 | | |
| PCB-97 | ND | 2.72 | | | PCB-144 | ND | 2.48 | | |
| PCB-99 | ND | 2.50 | | | PCB-145 | ND | 2.00 | | |
| PCB-100 | ND | 2.38 | | | PCB-146/165 | ND | 1.12 | | |
| PCB-103 | ND | 2.39 | | | PCB-147 | ND | 2.84 | | |
| PCB-104 | ND | 1.88 | | | PCB-148 | ND | 2.79 | | |
| PCB-105 | ND | 1.45 | | | PCB-150 | ND | 1.99 | | |
| PCB-106/118 | ND | 2.06 | | | PCB-151 | ND | 2.68 | | |
| PCB-107/109 | ND | 2.02 | | | PCB-152 | ND | 1.92 | | |
| PCB-108/112 | ND | 2.49 | | | PCB-153 | ND | 1.04 | | |
| PCB-110 | ND | 2.03 | | | PCB-154 | ND | 2.52 | | |
| PCB-111/115 | ND | 1.93 | | | PCB-155 | ND | 1.82 | | |
| PCB-113 | ND | 2.15 | | | PCB-156 | ND | 0.914 | | |
| PCB-114 | ND | 1.46 | | | PCB-157 | ND | 0.927 | | |
| PCB-119 | ND | 1.91 | | | PCB-158/160 | ND | 1.01 | | |
| PCB-120 | ND | 1.87 | | | PCB-159 | ND | 0.886 | | |
| PCB-121 | ND | 1.95 | | | PCB-166 | ND | 0.949 | | |
| PCB-122 | ND | 1.65 | | | PCB-167 | ND | 0.937 | | |
| PCB-123 | ND | 2.01 | | | PCB-168 | ND | 0.865 | | |
| PCB-124 | ND | 2.09 | | | PCB-169 | ND | 1.02 | | |
| PCB-126 | ND | 1.70 | | | PCB-170 | ND | 0.775 | | |
| PCB-127 | ND | 1.63 | | | PCB-171 | ND | 0.742 | | |
| PCB-128/162 | ND | 1.07 | | | PCB-172 | ND | 0.810 | | |
| PCB-129 | ND | 1.47 | | | PCB-173 | ND | 0.912 | | |
| PCB-130 | ND | 1.36 | | | PCB-174 | ND | 0.830 | | |
| PCB-131 | ND | 1.35 | | | PCB-175 | ND | 0.789 | | |
| PCB-132/161 | ND | 1.07 | | | PCB-176 | ND | 0.570 | | |
| PCB-133/142 | ND | 1.39 | | | PCB-177 | ND | 0.864 | | |
| PCB-134/143 | ND | 1.34 | | | PCB-178 | ND | 0.739 | | |
| PCB-135 | ND | 2.78 | | | PCB-179 | ND | 0.610 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | | EPA Method 1668C | | | | |
|-------------------------|--------------|-----------------------------------|-------|------------|---|--------------|----|-------|------------|
| Matrix: Aqueous | | QC Batch: B7C0079 | | | Lab Sample: B7C0079-BLK1 | | | | |
| Sample Size: 1.00 L | | Date Extracted: 15-Mar-2017 10:04 | | | Date Analyzed: 17-Mar-17 16:22 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-180 | ND | 0.758 | | | Total octaCB | ND | | 0.356 | |
| PCB-181 | ND | 0.768 | | | Total nonaCB | ND | | 0.589 | |
| PCB-182/187 | ND | 0.714 | | | DecaCB | ND | | 0.535 | |
| PCB-183 | ND | 0.645 | | | Total PCB | 3.83 | | | |
| PCB-184 | ND | 0.616 | | | | | | | |
| PCB-185 | ND | 0.787 | | | | | | | |
| PCB-186 | ND | 0.568 | | | | | | | |
| PCB-188 | ND | 0.555 | | | | | | | |
| PCB-189 | ND | 0.591 | | | | | | | |
| PCB-190 | ND | 0.574 | | | | | | | |
| PCB-191 | ND | 0.595 | | | | | | | |
| PCB-192 | ND | 0.621 | | | | | | | |
| PCB-193 | ND | 0.600 | | | | | | | |
| PCB-194 | ND | | 0.356 | | | | | | |
| PCB-195 | ND | 0.649 | | | | | | | |
| PCB-196/203 | ND | 1.92 | | | | | | | |
| PCB-197 | ND | 1.38 | | | | | | | |
| PCB-198 | ND | 2.07 | | | | | | | |
| PCB-199 | ND | 2.09 | | | | | | | |
| PCB-200 | ND | 1.50 | | | | | | | |
| PCB-201 | ND | 1.44 | | | | | | | |
| PCB-202 | ND | 1.55 | | | | | | | |
| PCB-204 | ND | 1.53 | | | | | | | |
| PCB-205 | ND | 0.441 | | | | | | | |
| PCB-206 | ND | 0.589 | | | | | | | |
| PCB-207 | ND | 0.363 | | | | | | | |
| PCB-208 | ND | 0.361 | | | | | | | |
| PCB-209 | ND | 0.535 | | | | | | | |
| Total monoCB | ND | 2.67 | | | | | | | |
| Total diCB | 3.83 | | | | | | | | |
| Total triCB | ND | 1.67 | | | | | | | |
| Total tetraCB | ND | 1.92 | | | | | | | |
| Total pentaCB | ND | 3.49 | | | | | | | |
| Total hexaCB | ND | 2.84 | | | | | | | |
| Total heptaCB | ND | 0.912 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | EPA Method 1668C | | | |
|-------------------------|------|-----------------------------------|------------|--------------------------------|------|--------------|------------|
| Matrix: Aqueous | | QC Batch: B7C0079 | | Lab Sample: B7C0079-BLK1 | | | |
| Sample Size: 1.00 L | | Date Extracted: 15-Mar-2017 10:04 | | Date Analyzed: 17-Mar-17 16:22 | | Column: ZB-1 | |
| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
| IS 13C-PCB-1 | 29.9 | 5 - 145 | | 13C-PCB-157 | 93.9 | 10 - 145 | |
| 13C-PCB-3 | 32.5 | 5 - 145 | | 13C-PCB-159 | 95.4 | 10 - 145 | |
| 13C-PCB-4 | 51.1 | 5 - 145 | | 13C-PCB-167 | 97.0 | 10 - 145 | |
| 13C-PCB-11 | 67.6 | 5 - 145 | | 13C-PCB-169 | 92.3 | 10 - 145 | |
| 13C-PCB-9 | 55.1 | 5 - 145 | | 13C-PCB-170 | 85.8 | 10 - 145 | |
| 13C-PCB-19 | 48.8 | 5 - 145 | | 13C-PCB-180 | 87.8 | 10 - 145 | |
| 13C-PCB-28 | 73.7 | 5 - 145 | | 13C-PCB-188 | 91.7 | 10 - 145 | |
| 13C-PCB-32 | 56.5 | 5 - 145 | | 13C-PCB-189 | 82.3 | 10 - 145 | |
| 13C-PCB-37 | 76.6 | 5 - 145 | | 13C-PCB-194 | 101 | 10 - 145 | |
| 13C-PCB-47 | 81.7 | 5 - 145 | | 13C-PCB-202 | 64.2 | 10 - 145 | |
| 13C-PCB-52 | 82.9 | 5 - 145 | | 13C-PCB-206 | 96.3 | 10 - 145 | |
| 13C-PCB-54 | 83.5 | 5 - 145 | | 13C-PCB-208 | 102 | 10 - 145 | |
| 13C-PCB-70 | 88.8 | 5 - 145 | | 13C-PCB-209 | 83.6 | 10 - 145 | |
| 13C-PCB-77 | 93.7 | 10 - 145 | | CRS 13C-PCB-79 | 93.0 | 10 - 145 | |
| 13C-PCB-80 | 87.5 | 10 - 145 | | 13C-PCB-178 | 91.7 | 10 - 145 | |
| 13C-PCB-81 | 93.7 | 10 - 145 | | | | | |
| 13C-PCB-95 | 92.0 | 10 - 145 | | | | | |
| 13C-PCB-97 | 93.1 | 10 - 145 | | | | | |
| 13C-PCB-101 | 94.5 | 10 - 145 | | | | | |
| 13C-PCB-104 | 92.6 | 10 - 145 | | | | | |
| 13C-PCB-105 | 93.4 | 10 - 145 | | | | | |
| 13C-PCB-114 | 97.7 | 10 - 145 | | | | | |
| 13C-PCB-118 | 92.6 | 10 - 145 | | | | | |
| 13C-PCB-123 | 95.0 | 10 - 145 | | | | | |
| 13C-PCB-126 | 89.3 | 10 - 145 | | | | | |
| 13C-PCB-127 | 90.9 | 10 - 145 | | | | | |
| 13C-PCB-138 | 93.7 | 10 - 145 | | | | | |
| 13C-PCB-141 | 95.4 | 10 - 145 | | | | | |
| 13C-PCB-153 | 97.8 | 10 - 145 | | | | | |
| 13C-PCB-155 | 79.5 | 10 - 145 | | | | | |
| 13C-PCB-156 | 96.2 | 10 - 145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit
See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: OPR | | | | | EPA Method 1668C | | | |
|---------------------|-----------------------------------|-------------------------|------|----------|---|------|----------|--|
| Matrix: Aqueous | QC Batch: B7C0079 | Lab Sample: B7C0079-BS1 | | | Date Analyzed: 17-Mar-17 13:07 Column: ZB-1 | | | |
| Sample Size: 1.00 L | Date Extracted: 15-Mar-2017 10:04 | | | | | | | |
| Analyte | Amt Found (pg/L) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL | |
| PCB-1 | 1350 | 1000 | 135 | 60 - 135 | IS 13C-PCB-1 | 24.0 | 15 - 145 | |
| PCB-3 | 1330 | 1000 | 133 | 60 - 135 | IS 13C-PCB-3 | 26.3 | 15 - 145 | |
| PCB-4/10 | 1950 | 2000 | 97.4 | 60 - 135 | IS 13C-PCB-4 | 42.2 | 15 - 145 | |
| PCB-15 | 918 | 1000 | 91.8 | 60 - 135 | IS 13C-PCB-11 | 61.5 | 15 - 145 | |
| PCB-19 | 1060 | 1000 | 106 | 60 - 135 | IS 13C-PCB-9 | 47.8 | 15 - 145 | |
| PCB-37 | 800 | 1000 | 80.0 | 60 - 135 | IS 13C-PCB-19 | 36.8 | 15 - 145 | |
| PCB-54 | 900 | 1000 | 90.0 | 60 - 135 | IS 13C-PCB-28 | 53.9 | 15 - 145 | |
| PCB-77 | 951 | 1000 | 95.1 | 60 - 135 | IS 13C-PCB-32 | 47.7 | 15 - 145 | |
| PCB-81 | 992 | 1000 | 99.2 | 60 - 135 | IS 13C-PCB-37 | 66.4 | 15 - 145 | |
| PCB-104 | 924 | 1000 | 92.4 | 60 - 135 | IS 13C-PCB-47 | 81.9 | 15 - 145 | |
| PCB-105 | 1020 | 1000 | 102 | 60 - 135 | IS 13C-PCB-52 | 80.9 | 15 - 145 | |
| PCB-106/118 | 1910 | 2000 | 95.3 | 60 - 135 | IS 13C-PCB-54 | 71.1 | 15 - 145 | |
| PCB-114 | 1060 | 1000 | 106 | 60 - 135 | IS 13C-PCB-70 | 89.7 | 15 - 145 | |
| PCB-123 | 948 | 1000 | 94.8 | 60 - 135 | IS 13C-PCB-77 | 89.5 | 40 - 145 | |
| PCB-126 | 994 | 1000 | 99.4 | 60 - 135 | IS 13C-PCB-80 | 89.1 | 40 - 145 | |
| PCB-155 | 921 | 1000 | 92.1 | 60 - 135 | IS 13C-PCB-81 | 90.1 | 40 - 145 | |
| PCB-156 | 935 | 1000 | 93.5 | 60 - 135 | IS 13C-PCB-95 | 90.5 | 40 - 145 | |
| PCB-157 | 944 | 1000 | 94.4 | 60 - 135 | IS 13C-PCB-97 | 92.1 | 40 - 145 | |
| PCB-167 | 910 | 1000 | 91.0 | 60 - 135 | IS 13C-PCB-101 | 90.0 | 40 - 145 | |
| PCB-169 | 944 | 1000 | 94.4 | 60 - 135 | IS 13C-PCB-104 | 86.4 | 40 - 145 | |
| PCB-188 | 910 | 1000 | 91.0 | 60 - 135 | IS 13C-PCB-105 | 84.8 | 40 - 145 | |
| PCB-189 | 956 | 1000 | 95.6 | 60 - 135 | IS 13C-PCB-114 | 89.1 | 40 - 145 | |
| PCB-202 | 979 | 1000 | 97.9 | 60 - 135 | IS 13C-PCB-118 | 91.2 | 40 - 145 | |
| PCB-205 | 865 | 1000 | 86.5 | 60 - 135 | IS 13C-PCB-123 | 93.4 | 40 - 145 | |
| PCB-206 | 944 | 1000 | 94.4 | 60 - 135 | IS 13C-PCB-126 | 81.7 | 40 - 145 | |
| PCB-208 | 924 | 1000 | 92.4 | 60 - 135 | IS 13C-PCB-127 | 85.3 | 40 - 145 | |
| PCB-209 | 968 | 1000 | 96.8 | 60 - 135 | IS 13C-PCB-138 | 92.5 | 40 - 145 | |
| | | | | | IS 13C-PCB-141 | 91.2 | 40 - 145 | |
| | | | | | IS 13C-PCB-153 | 92.2 | 40 - 145 | |
| | | | | | IS 13C-PCB-155 | 80.5 | 40 - 145 | |
| | | | | | IS 13C-PCB-156 | 94.5 | 40 - 145 | |
| | | | | | IS 13C-PCB-157 | 91.8 | 40 - 145 | |
| | | | | | IS 13C-PCB-159 | 92.3 | 40 - 145 | |
| | | | | | IS 13C-PCB-167 | 93.6 | 40 - 145 | |
| | | | | | IS 13C-PCB-169 | 88.9 | 40 - 145 | |
| | | | | | IS 13C-PCB-170 | 83.6 | 40 - 145 | |
| | | | | | IS 13C-PCB-180 | 84.4 | 40 - 145 | |
| | | | | | IS 13C-PCB-188 | 85.9 | 40 - 145 | |
| | | | | | IS 13C-PCB-189 | 81.3 | 40 - 145 | |
| | | | | | IS 13C-PCB-194 | 96.4 | 40 - 145 | |

| Sample ID: OPR | | | | | EPA Method 1668C | | |
|--|--|-----------|--|--------|------------------|------|----------|
| Matrix: Aqueous Sample Size: 1.00 L | QC Batch: B7C0079 Date Extracted: 15-Mar-2017 10:04 | | Lab Sample: B7C0079-BS1 Date Analyzed: 17-Mar-17 13:07 Column: ZB-1 | | | | |
| Analyte | Amt Found (pg/L) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL |
| | | | | | IS 13C-PCB-202 | 61.6 | 40 - 145 |
| | | | | | IS 13C-PCB-206 | 93.9 | 40 - 145 |
| | | | | | IS 13C-PCB-208 | 103 | 40 - 145 |
| | | | | | IS 13C-PCB-209 | 83.9 | 40 - 145 |
| | | | | | CRS 13C-PCB-79 | 87.3 | 40 - 145 |
| | | | | | CRS 13C-PCB-178 | 85.2 | 40 - 145 |

LCL-UCL - Lower control limit - upper control limit

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW-136 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|--------------|------------|------------------|------------------------------|-----------------|-------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: | Aqueous | Lab Sample: | 1700290-01 | Date Received: | 03-Mar-2017 10:19 | |
| Project: Stiller Pond | | | Sample Size: | 0.990 L | QC Batch: | B7C0079 | Date Extracted: | 15-Mar-2017 10:04 | |
| Date Collected: 02-Mar-2017 10:45 | | | | | Date Analyzed: | 17-Mar-17 17:27 Column: ZB-1 | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | 33.1 | | | | PCB-44 | ND | | 6.54 | |
| PCB-2 | 2.48 | | | J | PCB-45 | 3.20 | | | J |
| PCB-3 | 10.9 | | | | PCB-46 | 1.32 | | | J |
| PCB-4/10 | 54.4 | | | | PCB-47 | 2.16 | | | J |
| PCB-5/8 | 107 | | | | PCB-48/75 | 1.72 | | | J |
| PCB-6 | 20.0 | | | | PCB-50 | ND | 1.20 | | |
| PCB-7/9 | 9.08 | | | J | PCB-51 | ND | | 0.591 | |
| PCB-11 | 7.77 | | | B | PCB-52/69 | 7.03 | | | J |
| PCB-12/13 | ND | 2.81 | | | PCB-53 | 1.95 | | | J |
| PCB-14 | ND | 0.898 | | | PCB-54 | ND | 1.00 | | |
| PCB-15 | 18.3 | | | | PCB-55 | ND | 0.822 | | |
| PCB-16/32 | 45.1 | | | | PCB-56/60 | ND | | 1.47 | |
| PCB-17 | 21.9 | | | | PCB-57 | ND | 0.781 | | |
| PCB-18 | 62.9 | | | | PCB-58 | ND | 0.755 | | |
| PCB-19 | 9.69 | | | | PCB-61/70 | 2.95 | | | J |
| PCB-20/21/33 | 21.6 | | | | PCB-62 | ND | 0.994 | | |
| PCB-22 | 12.2 | | | | PCB-63 | ND | 0.729 | | |
| PCB-23 | ND | 1.22 | | | PCB-65 | ND | 1.06 | | |
| PCB-24/27 | 5.54 | | | J | PCB-66/76 | 1.87 | | | J |
| PCB-25 | 3.16 | | | J | PCB-67 | ND | 0.796 | | |
| PCB-26 | 6.27 | | | | PCB-68 | ND | | 0.327 | |
| PCB-28 | 24.7 | | | | PCB-73 | ND | 0.901 | | |
| PCB-29 | ND | 1.11 | | | PCB-74 | 1.41 | | | J |
| PCB-30 | ND | 0.818 | | | PCB-77 | ND | 0.799 | | |
| PCB-31 | 24.3 | | | | PCB-78 | ND | 0.854 | | |
| PCB-34 | ND | 1.09 | | | PCB-79 | ND | 0.816 | | |
| PCB-35 | ND | 0.866 | | | PCB-80 | ND | 0.731 | | |
| PCB-36 | ND | 0.851 | | | PCB-81 | ND | 0.789 | | |
| PCB-37 | 2.88 | | | J | PCB-82 | ND | 2.22 | | |
| PCB-38 | ND | 0.879 | | | PCB-83 | ND | 1.46 | | |
| PCB-39 | ND | 0.803 | | | PCB-84/92 | ND | 1.87 | | |
| PCB-40 | 1.40 | | | J | PCB-85/116 | ND | 1.72 | | |
| PCB-41/64/71/72 | 6.07 | | | J | PCB-86 | ND | 2.42 | | |
| PCB-42/59 | 2.68 | | | J | PCB-87/117/125 | ND | 1.56 | | |
| PCB-43/49 | 4.62 | | | J | PCB-88/91 | ND | 1.87 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: GW-136

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-01 |
| Project: | Stiller Pond | Sample Size: | 0.990 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 10:45 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed : | 17-Mar-17 17:27 Column: ZB-1 |
| | | | | Date Extracted: | 15-Mar-2017 10:04 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|------|------------|-----------------|--------------|-------|------|------------|
| PCB-89 | ND | 1.95 | | | PCB-136 | ND | 1.24 | | |
| PCB-90/101 | ND | | 1.13 | | PCB-137 | ND | 0.746 | | |
| PCB-93 | ND | 1.93 | | | PCB-138/163/164 | 0.630 | | | J |
| PCB-94 | ND | 1.95 | | | PCB-139/149 | ND | 1.61 | | |
| PCB-95/98/102 | 1.47 | | | J | PCB-140 | ND | 1.76 | | |
| PCB-96 | ND | 1.50 | | | PCB-141 | ND | 0.765 | | |
| PCB-97 | ND | 1.88 | | | PCB-144 | ND | 1.59 | | |
| PCB-99 | ND | 1.71 | | | PCB-145 | ND | 1.28 | | |
| PCB-100 | ND | 1.68 | | | PCB-146/165 | ND | 0.753 | | |
| PCB-103 | ND | 1.68 | | | PCB-147 | ND | 1.82 | | |
| PCB-104 | ND | 1.32 | | | PCB-148 | ND | 1.79 | | |
| PCB-105 | ND | 0.475 | | | PCB-150 | ND | 1.28 | | |
| PCB-106/118 | 0.890 | | | J | PCB-151 | ND | 1.72 | | |
| PCB-107/109 | ND | 1.35 | | | PCB-152 | ND | 1.23 | | |
| PCB-108/112 | ND | 1.72 | | | PCB-153 | ND | 0.702 | | |
| PCB-110 | 1.21 | | | J | PCB-154 | ND | 1.62 | | |
| PCB-111/115 | ND | 1.34 | | | PCB-155 | ND | 1.17 | | |
| PCB-113 | ND | 1.47 | | | PCB-156 | ND | 0.577 | | |
| PCB-114 | ND | 1.01 | | | PCB-157 | ND | 0.604 | | |
| PCB-119 | ND | 1.32 | | | PCB-158/160 | ND | 0.630 | | |
| PCB-120 | ND | 1.29 | | | PCB-159 | ND | 0.565 | | |
| PCB-121 | ND | 1.32 | | | PCB-166 | ND | 0.606 | | |
| PCB-122 | ND | 1.14 | | | PCB-167 | ND | 0.588 | | |
| PCB-123 | ND | 1.34 | | | PCB-168 | ND | 0.583 | | |
| PCB-124 | ND | 1.39 | | | PCB-169 | ND | 0.656 | | |
| PCB-126 | ND | 1.08 | | | PCB-170 | ND | 0.623 | | |
| PCB-127 | ND | 1.03 | | | PCB-171 | ND | 0.613 | | |
| PCB-128/162 | ND | 0.684 | | | PCB-172 | ND | 0.669 | | |
| PCB-129 | ND | 0.919 | | | PCB-173 | ND | 0.753 | | |
| PCB-130 | ND | 0.883 | | | PCB-174 | ND | 0.686 | | |
| PCB-131 | ND | 0.909 | | | PCB-175 | ND | 0.635 | | |
| PCB-132/161 | ND | 0.721 | | | PCB-176 | ND | 0.458 | | |
| PCB-133/142 | ND | 0.937 | | | PCB-177 | ND | 0.714 | | |
| PCB-134/143 | ND | 0.902 | | | PCB-178 | ND | 0.595 | | |
| PCB-135 | ND | 1.78 | | | PCB-179 | ND | 0.491 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Sample ID: GW-136

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-01 |
| Project: | Stiller Pond | Sample Size: | 0.990 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 10:45 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed : | 17-Mar-17 17:27 Column: ZB-1 |
| | | | | Date Extracted: | 15-Mar-2017 10:04 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|-------|------------|--------------|--------------|-------|-------|------------|
| PCB-180 | ND | 0.626 | | | Total octaCB | ND | | 0.464 | |
| PCB-181 | ND | 0.635 | | | Total nonaCB | ND | 0.506 | | |
| PCB-182/187 | ND | 0.575 | | | DecaCB | ND | 0.538 | | |
| PCB-183 | ND | 0.519 | | | Total PCB | 545 | | | |
| PCB-184 | ND | 0.496 | | | | | | | |
| PCB-185 | ND | 0.650 | | | | | | | |
| PCB-186 | ND | 0.457 | | | | | | | |
| PCB-188 | ND | 0.447 | | | | | | | |
| PCB-189 | ND | 0.449 | | | | | | | |
| PCB-190 | ND | 0.461 | | | | | | | |
| PCB-191 | ND | 0.491 | | | | | | | |
| PCB-192 | ND | 0.513 | | | | | | | |
| PCB-193 | ND | 0.495 | | | | | | | |
| PCB-194 | ND | | 0.464 | | | | | | |
| PCB-195 | ND | 0.604 | | | | | | | |
| PCB-196/203 | ND | 1.36 | | | | | | | |
| PCB-197 | ND | 0.978 | | | | | | | |
| PCB-198 | ND | 1.47 | | | | | | | |
| PCB-199 | ND | 1.48 | | | | | | | |
| PCB-200 | ND | 1.06 | | | | | | | |
| PCB-201 | ND | 1.02 | | | | | | | |
| PCB-202 | ND | 1.10 | | | | | | | |
| PCB-204 | ND | 1.09 | | | | | | | |
| PCB-205 | ND | 0.411 | | | | | | | |
| PCB-206 | ND | 0.506 | | | | | | | |
| PCB-207 | ND | 0.347 | | | | | | | |
| PCB-208 | ND | 0.344 | | | | | | | |
| PCB-209 | ND | 0.538 | | | | | | | |
| Total monoCB | 46.4 | | | | | | | | |
| Total diCB | 216 | | | | | | | | |
| Total triCB | 240 | | | | | | | | |
| Total tetraCB | 38.4 | | 47.3 | | | | | | |
| Total pentaCB | 3.57 | | 4.70 | | | | | | |
| Total hexaCB | 0.630 | | | | | | | | |
| Total heptaCB | ND | 0.753 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

| Sample ID: GW-136 | | | | EPA Method 1668C | | | |
|---|------|----------------------|------------|---|------|-----------------------------------|------------|
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: Walla Walla Basin Watershed Council | | Matrix: Aqueous | | Lab Sample: 1700290-01 | | Date Received: 03-Mar-2017 10:19 | |
| Project: Stiller Pond | | Sample Size: 0.990 L | | QC Batch: B7C0079 | | Date Extracted: 15-Mar-2017 10:04 | |
| Date Collected: 02-Mar-2017 10:45 | | | | Date Analyzed: 17-Mar-17 17:27 Column: ZB-1 | | | |
| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
| IS 13C-PCB-1 | 20.3 | 5 -145 | | 13C-PCB-170 | 79.6 | 10 -145 | |
| 13C-PCB-3 | 23.2 | 5 -145 | | 13C-PCB-180 | 81.3 | 10 -145 | |
| 13C-PCB-4 | 40.2 | 5 -145 | | 13C-PCB-188 | 84.1 | 10 -145 | |
| 13C-PCB-11 | 60.8 | 5 -145 | | 13C-PCB-189 | 77.3 | 10 -145 | |
| 13C-PCB-9 | 46.8 | 5 -145 | | 13C-PCB-194 | 95.2 | 10 -145 | |
| 13C-PCB-19 | 40.6 | 5 -145 | | 13C-PCB-202 | 56.9 | 10 -145 | |
| 13C-PCB-28 | 67.0 | 5 -145 | | 13C-PCB-206 | 90.8 | 10 -145 | |
| 13C-PCB-32 | 51.2 | 5 -145 | | 13C-PCB-208 | 95.8 | 10 -145 | |
| 13C-PCB-37 | 79.5 | 5 -145 | | 13C-PCB-209 | 75.2 | 10 -145 | |
| 13C-PCB-47 | 74.0 | 5 -145 | | CRS 13C-PCB-79 | 91.3 | 10 -145 | |
| 13C-PCB-52 | 78.7 | 5 -145 | | 13C-PCB-178 | 86.7 | 10 -145 | |
| 13C-PCB-54 | 70.7 | 5 -145 | | | | | |
| 13C-PCB-70 | 90.7 | 5 -145 | | | | | |
| 13C-PCB-77 | 93.0 | 10 -145 | | | | | |
| 13C-PCB-80 | 85.0 | 10 -145 | | | | | |
| 13C-PCB-81 | 90.0 | 10 -145 | | | | | |
| 13C-PCB-95 | 85.7 | 10 -145 | | | | | |
| 13C-PCB-97 | 88.4 | 10 -145 | | | | | |
| 13C-PCB-101 | 88.2 | 10 -145 | | | | | |
| 13C-PCB-104 | 82.8 | 10 -145 | | | | | |
| 13C-PCB-105 | 89.6 | 10 -145 | | | | | |
| 13C-PCB-114 | 92.7 | 10 -145 | | | | | |
| 13C-PCB-118 | 91.7 | 10 -145 | | | | | |
| 13C-PCB-123 | 91.9 | 10 -145 | | | | | |
| 13C-PCB-126 | 85.6 | 10 -145 | | | | | |
| 13C-PCB-127 | 86.7 | 10 -145 | | | | | |
| 13C-PCB-138 | 92.5 | 10 -145 | | | | | |
| 13C-PCB-141 | 93.9 | 10 -145 | | | | | |
| 13C-PCB-153 | 95.3 | 10 -145 | | | | | |
| 13C-PCB-155 | 74.5 | 10 -145 | | | | | |
| 13C-PCB-156 | 94.4 | 10 -145 | | | | | |
| 13C-PCB-157 | 91.6 | 10 -145 | | | | | |
| 13C-PCB-159 | 92.1 | 10 -145 | | | | | |
| 13C-PCB-167 | 94.1 | 10 -145 | | | | | |
| 13C-PCB-169 | 87.7 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW-145 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|----------------------|------------|---|--------------|-----------------------------------|------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700290-02 | | Date Received: 03-Mar-2017 10:19 | | |
| Project: Stiller Pond | | | Sample Size: 0.991 L | | QC Batch: B7C0079 | | Date Extracted: 15-Mar-2017 10:04 | | |
| Date Collected: 02-Mar-2017 11:05 | | | | | Date Analyzed: 17-Mar-17 18:32 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | 28.8 | | | | PCB-44 | 5.43 | | | |
| PCB-2 | 2.07 | | | J | PCB-45 | 2.02 | | | J |
| PCB-3 | 9.92 | | | | PCB-46 | 1.01 | | | J |
| PCB-4/10 | 50.7 | | | | PCB-47 | 3.17 | | | J |
| PCB-5/8 | 92.7 | | | | PCB-48/75 | 1.45 | | | J |
| PCB-6 | 18.4 | | | | PCB-50 | ND | 0.463 | | |
| PCB-7/9 | 8.66 | | | J | PCB-51 | 1.00 | | | J |
| PCB-11 | 10.0 | | | B | PCB-52/69 | 5.24 | | | J |
| PCB-12/13 | ND | | 1.97 | | PCB-53 | 1.85 | | | J |
| PCB-14 | ND | 0.494 | | | PCB-54 | ND | 0.387 | | |
| PCB-15 | 15.5 | | | | PCB-55 | ND | 0.377 | | |
| PCB-16/32 | 38.6 | | | | PCB-56/60 | ND | | 1.14 | |
| PCB-17 | 20.9 | | | | PCB-57 | ND | 0.377 | | |
| PCB-18 | 60.8 | | | | PCB-58 | ND | 0.365 | | |
| PCB-19 | 8.03 | | | | PCB-61/70 | 2.38 | | | J |
| PCB-20/21/33 | 18.7 | | | | PCB-62 | ND | 0.409 | | |
| PCB-22 | 8.90 | | | | PCB-63 | ND | 0.352 | | |
| PCB-23 | ND | 0.631 | | | PCB-65 | ND | 0.437 | | |
| PCB-24/27 | 4.70 | | | J | PCB-66/76 | 1.59 | | | J |
| PCB-25 | 2.38 | | | J | PCB-67 | ND | 0.385 | | |
| PCB-26 | 5.38 | | | | PCB-68 | 0.579 | | | J |
| PCB-28 | 17.7 | | | | PCB-73 | ND | 0.389 | | |
| PCB-29 | ND | 0.574 | | | PCB-74 | 0.903 | | | J |
| PCB-30 | ND | 0.496 | | | PCB-77 | ND | 0.375 | | |
| PCB-31 | 20.0 | | | | PCB-78 | ND | 0.388 | | |
| PCB-34 | ND | 0.560 | | | PCB-79 | ND | 0.374 | | |
| PCB-35 | ND | 0.496 | | | PCB-80 | ND | 0.335 | | |
| PCB-36 | ND | 0.488 | | | PCB-81 | ND | 0.359 | | |
| PCB-37 | 1.43 | | | J | PCB-82 | ND | 1.49 | | |
| PCB-38 | ND | 0.504 | | | PCB-83 | ND | 0.955 | | |
| PCB-39 | ND | 0.461 | | | PCB-84/92 | ND | 1.27 | | |
| PCB-40 | 0.958 | | | J | PCB-85/116 | ND | 1.13 | | |
| PCB-41/64/71/72 | 3.87 | | | J | PCB-86 | ND | 1.59 | | |
| PCB-42/59 | ND | | 1.48 | | PCB-87/117/125 | ND | 1.02 | | |
| PCB-43/49 | 2.80 | | | J | PCB-88/91 | ND | 1.28 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

| Sample ID: GW-145 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|----------------------|------------|---|--------------|-----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700290-02 | | Date Received: 03-Mar-2017 10:19 | | |
| Project: Stiller Pond | | | Sample Size: 0.991 L | | QC Batch: B7C0079 | | Date Extracted: 15-Mar-2017 10:04 | | |
| Date Collected: 02-Mar-2017 11:05 | | | | | Date Analyzed: 17-Mar-17 18:32 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 1.33 | | | PCB-136 | ND | 0.862 | | |
| PCB-90/101 | ND | | 0.628 | | PCB-137 | ND | 0.600 | | |
| PCB-93 | ND | 1.32 | | | PCB-138/163/164 | ND | | 0.471 | |
| PCB-94 | ND | 1.34 | | | PCB-139/149 | ND | 0.847 | | |
| PCB-95/98/102 | 1.49 | | | J | PCB-140 | ND | 1.22 | | |
| PCB-96 | ND | 0.949 | | | PCB-141 | ND | 0.616 | | |
| PCB-97 | ND | 1.24 | | | PCB-144 | ND | 1.10 | | |
| PCB-99 | ND | 1.17 | | | PCB-145 | ND | 0.892 | | |
| PCB-100 | ND | 1.06 | | | PCB-146/165 | ND | 0.556 | | |
| PCB-103 | ND | 1.07 | | | PCB-147 | ND | 1.27 | | |
| PCB-104 | ND | 0.838 | | | PCB-148 | ND | 1.25 | | |
| PCB-105 | ND | 0.740 | | | PCB-150 | ND | 0.889 | | |
| PCB-106/118 | ND | 0.659 | | | PCB-151 | ND | 1.19 | | |
| PCB-107/109 | ND | 0.908 | | | PCB-152 | ND | 0.857 | | |
| PCB-108/112 | ND | 1.13 | | | PCB-153 | ND | 0.518 | | |
| PCB-110 | 0.880 | | | J | PCB-154 | ND | 1.12 | | |
| PCB-111/115 | ND | 0.877 | | | PCB-155 | ND | 0.812 | | |
| PCB-113 | ND | 1.00 | | | PCB-156 | ND | 0.456 | | |
| PCB-114 | ND | 0.760 | | | PCB-157 | ND | 0.478 | | |
| PCB-119 | ND | 0.866 | | | PCB-158/160 | ND | 0.464 | | |
| PCB-120 | ND | 0.848 | | | PCB-159 | ND | 0.438 | | |
| PCB-121 | ND | 0.907 | | | PCB-166 | ND | 0.470 | | |
| PCB-122 | ND | 0.859 | | | PCB-167 | ND | 0.449 | | |
| PCB-123 | ND | 0.902 | | | PCB-168 | ND | 0.431 | | |
| PCB-124 | ND | 0.935 | | | PCB-169 | ND | 0.517 | | |
| PCB-126 | ND | 0.847 | | | PCB-170 | ND | 0.477 | | |
| PCB-127 | ND | 0.823 | | | PCB-171 | ND | 0.434 | | |
| PCB-128/162 | ND | 0.530 | | | PCB-172 | ND | 0.473 | | |
| PCB-129 | ND | 0.677 | | | PCB-173 | ND | 0.533 | | |
| PCB-130 | ND | 0.711 | | | PCB-174 | ND | 0.485 | | |
| PCB-131 | ND | 0.672 | | | PCB-175 | ND | 0.461 | | |
| PCB-132/161 | ND | 0.532 | | | PCB-176 | ND | 0.333 | | |
| PCB-133/142 | ND | 0.692 | | | PCB-177 | ND | 0.505 | | |
| PCB-134/143 | ND | 0.666 | | | PCB-178 | ND | 0.432 | | |
| PCB-135 | ND | 1.24 | | | PCB-179 | ND | 0.356 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Sample ID: GW-145

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-02 |
| Project: | Stiller Pond | Sample Size: | 0.991 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 11:05 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed : | 17-Mar-17 18:32 Column: ZB-1 |
| | | | | Date Extracted: | 15-Mar-2017 10:04 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|-------|------------|--------------|--------------|-------|-------|------------|
| PCB-180 | ND | 0.443 | | | Total octaCB | ND | | 0.456 | |
| PCB-181 | ND | 0.449 | | | Total nonaCB | ND | 0.520 | | |
| PCB-182/187 | ND | 0.417 | | | DecaCB | ND | 0.378 | | |
| PCB-183 | ND | 0.377 | | | Total PCB | 481 | | | |
| PCB-184 | ND | 0.360 | | | | | | | |
| PCB-185 | ND | 0.460 | | | | | | | |
| PCB-186 | ND | 0.332 | | | | | | | |
| PCB-188 | ND | 0.324 | | | | | | | |
| PCB-189 | ND | 0.357 | | | | | | | |
| PCB-190 | ND | 0.353 | | | | | | | |
| PCB-191 | ND | 0.348 | | | | | | | |
| PCB-192 | ND | 0.363 | | | | | | | |
| PCB-193 | ND | 0.351 | | | | | | | |
| PCB-194 | ND | | 0.456 | | | | | | |
| PCB-195 | ND | 0.479 | | | | | | | |
| PCB-196/203 | ND | 1.19 | | | | | | | |
| PCB-197 | ND | 0.853 | | | | | | | |
| PCB-198 | ND | 1.28 | | | | | | | |
| PCB-199 | ND | 1.29 | | | | | | | |
| PCB-200 | ND | 0.928 | | | | | | | |
| PCB-201 | ND | 0.893 | | | | | | | |
| PCB-202 | ND | 0.956 | | | | | | | |
| PCB-204 | ND | 0.946 | | | | | | | |
| PCB-205 | ND | 0.326 | | | | | | | |
| PCB-206 | ND | 0.520 | | | | | | | |
| PCB-207 | ND | 0.306 | | | | | | | |
| PCB-208 | ND | 0.304 | | | | | | | |
| PCB-209 | ND | 0.378 | | | | | | | |
| Total monoCB | 40.8 | | | | | | | | |
| Total diCB | 196 | | 198 | | | | | | |
| Total triCB | 207 | | | | | | | | |
| Total tetraCB | 34.2 | | 36.9 | | | | | | |
| Total pentaCB | 2.37 | | 2.99 | | | | | | |
| Total hexaCB | ND | | 0.471 | | | | | | |
| Total heptaCB | ND | 0.533 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: GW-145

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|-------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-02 |
| Project: | Stiller Pond | Sample Size: | 0.991 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 11:05 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed: | 17-Mar-17 18:32 |
| | | | | Column: | ZB-1 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 33.2 | 5 -145 | | 13C-PCB-170 | 77.9 | 10 -145 | |
| 13C-PCB-3 | 35.2 | 5 -145 | | 13C-PCB-180 | 80.4 | 10 -145 | |
| 13C-PCB-4 | 58.5 | 5 -145 | | 13C-PCB-188 | 83.2 | 10 -145 | |
| 13C-PCB-11 | 75.2 | 5 -145 | | 13C-PCB-189 | 71.4 | 10 -145 | |
| 13C-PCB-9 | 65.2 | 5 -145 | | 13C-PCB-194 | 98.4 | 10 -145 | |
| 13C-PCB-19 | 49.6 | 5 -145 | | 13C-PCB-202 | 51.7 | 10 -145 | |
| 13C-PCB-28 | 68.3 | 5 -145 | | 13C-PCB-206 | 91.6 | 10 -145 | |
| 13C-PCB-32 | 53.2 | 5 -145 | | 13C-PCB-208 | 105 | 10 -145 | |
| 13C-PCB-37 | 78.0 | 5 -145 | | 13C-PCB-209 | 76.5 | 10 -145 | |
| 13C-PCB-47 | 83.0 | 5 -145 | | CRS 13C-PCB-79 | 90.4 | 10 -145 | |
| 13C-PCB-52 | 84.6 | 5 -145 | | 13C-PCB-178 | 86.5 | 10 -145 | |
| 13C-PCB-54 | 86.0 | 5 -145 | | | | | |
| 13C-PCB-70 | 87.4 | 5 -145 | | | | | |
| 13C-PCB-77 | 88.0 | 10 -145 | | | | | |
| 13C-PCB-80 | 87.1 | 10 -145 | | | | | |
| 13C-PCB-81 | 89.7 | 10 -145 | | | | | |
| 13C-PCB-95 | 87.5 | 10 -145 | | | | | |
| 13C-PCB-97 | 89.0 | 10 -145 | | | | | |
| 13C-PCB-101 | 88.5 | 10 -145 | | | | | |
| 13C-PCB-104 | 89.2 | 10 -145 | | | | | |
| 13C-PCB-105 | 90.2 | 10 -145 | | | | | |
| 13C-PCB-114 | 95.6 | 10 -145 | | | | | |
| 13C-PCB-118 | 91.7 | 10 -145 | | | | | |
| 13C-PCB-123 | 93.9 | 10 -145 | | | | | |
| 13C-PCB-126 | 84.1 | 10 -145 | | | | | |
| 13C-PCB-127 | 85.4 | 10 -145 | | | | | |
| 13C-PCB-138 | 93.6 | 10 -145 | | | | | |
| 13C-PCB-141 | 93.9 | 10 -145 | | | | | |
| 13C-PCB-153 | 95.8 | 10 -145 | | | | | |
| 13C-PCB-155 | 70.0 | 10 -145 | | | | | |
| 13C-PCB-156 | 94.0 | 10 -145 | | | | | |
| 13C-PCB-157 | 90.8 | 10 -145 | | | | | |
| 13C-PCB-159 | 93.2 | 10 -145 | | | | | |
| 13C-PCB-167 | 92.5 | 10 -145 | | | | | |
| 13C-PCB-169 | 85.5 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW-146 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|--------------|------------|------------------|------------------------------|-----------------|-------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: | Aqueous | Lab Sample: | 1700290-03 | Date Received: | 03-Mar-2017 10:19 | |
| Project: Stiller Pond | | | Sample Size: | 1.04 L | QC Batch: | B7C0079 | Date Extracted: | 15-Mar-2017 10:04 | |
| Date Collected: 02-Mar-2017 10:25 | | | | | Date Analyzed : | 22-Mar-17 12:44 Column: ZB-1 | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | 29.8 | | | | PCB-44 | 8.33 | | | |
| PCB-2 | 1.89 | | | J | PCB-45 | 2.89 | | | J |
| PCB-3 | 9.23 | | | | PCB-46 | 1.34 | | | J |
| PCB-4/10 | 59.1 | | | | PCB-47 | ND | | 2.34 | |
| PCB-5/8 | 104 | | | | PCB-48/75 | 2.18 | | | J |
| PCB-6 | 20.3 | | | | PCB-50 | ND | 0.714 | | |
| PCB-7/9 | 9.08 | | | J | PCB-51 | 0.687 | | | J |
| PCB-11 | 8.97 | | | B | PCB-52/69 | 7.45 | | | J |
| PCB-12/13 | ND | 2.76 | | | PCB-53 | 2.28 | | | J |
| PCB-14 | ND | 0.498 | | | PCB-54 | ND | 0.597 | | |
| PCB-15 | 19.4 | | | | PCB-55 | ND | 0.430 | | |
| PCB-16/32 | 48.3 | | | | PCB-56/60 | 2.19 | | | J |
| PCB-17 | 25.3 | | | | PCB-57 | ND | 0.457 | | |
| PCB-18 | 72.5 | | | | PCB-58 | ND | 0.442 | | |
| PCB-19 | 9.43 | | | | PCB-61/70 | 3.10 | | | J |
| PCB-20/21/33 | 25.8 | | | | PCB-62 | ND | 0.529 | | |
| PCB-22 | 13.6 | | | | PCB-63 | ND | 0.427 | | |
| PCB-23 | ND | 0.688 | | | PCB-65 | ND | 0.564 | | |
| PCB-24/27 | 5.08 | | | J | PCB-66/76 | 2.12 | | | J |
| PCB-25 | 3.00 | | | J | PCB-67 | ND | 0.467 | | |
| PCB-26 | 6.78 | | | | PCB-68 | ND | 0.471 | | |
| PCB-28 | 26.5 | | | | PCB-73 | ND | 0.512 | | |
| PCB-29 | ND | 0.520 | | | PCB-74 | 1.50 | | | J |
| PCB-30 | ND | 0.435 | | | PCB-77 | ND | 0.418 | | |
| PCB-31 | 28.1 | | | | PCB-78 | ND | 0.461 | | |
| PCB-34 | ND | 0.610 | | | PCB-79 | ND | 0.427 | | |
| PCB-35 | ND | 0.552 | | | PCB-80 | ND | 0.382 | | |
| PCB-36 | ND | 0.542 | | | PCB-81 | ND | 0.426 | | |
| PCB-37 | 3.39 | | | J | PCB-82 | ND | 1.49 | | |
| PCB-38 | ND | 0.560 | | | PCB-83 | ND | 0.976 | | |
| PCB-39 | ND | 0.512 | | | PCB-84/92 | ND | | 0.492 | |
| PCB-40 | 1.60 | | | J | PCB-85/116 | ND | 1.15 | | |
| PCB-41/64/71/72 | 6.59 | | | J | PCB-86 | ND | 1.62 | | |
| PCB-42/59 | 2.90 | | | J | PCB-87/117/125 | ND | 1.04 | | |
| PCB-43/49 | 4.81 | | | J | PCB-88/91 | ND | 1.32 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: GW-146

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-03 |
| Project: | Stiller Pond | Sample Size: | 1.04 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 10:25 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed : | 22-Mar-17 12:44 Column: ZB-1 |
| | | | | Date Extracted: | 15-Mar-2017 10:04 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|------|------------|-----------------|--------------|-------|-------|------------|
| PCB-89 | ND | 1.35 | | | PCB-136 | ND | 0.965 | | |
| PCB-90/101 | 0.979 | | | J | PCB-137 | ND | 0.550 | | |
| PCB-93 | ND | 1.37 | | | PCB-138/163/164 | ND | | 0.554 | |
| PCB-94 | ND | 1.38 | | | PCB-139/149 | ND | 1.26 | | |
| PCB-95/98/102 | 1.55 | | | J | PCB-140 | ND | 1.37 | | |
| PCB-96 | ND | 1.10 | | | PCB-141 | ND | 0.565 | | |
| PCB-97 | ND | 1.26 | | | PCB-144 | ND | 1.24 | | |
| PCB-99 | 0.733 | | | J | PCB-145 | ND | 0.999 | | |
| PCB-100 | ND | 1.23 | | | PCB-146/165 | ND | 0.542 | | |
| PCB-103 | ND | 1.23 | | | PCB-147 | ND | 1.42 | | |
| PCB-104 | ND | 0.967 | | | PCB-148 | ND | 1.39 | | |
| PCB-105 | ND | 0.781 | | | PCB-150 | ND | 0.995 | | |
| PCB-106/118 | 0.846 | | | J | PCB-151 | ND | 1.34 | | |
| PCB-107/109 | ND | 0.906 | | | PCB-152 | ND | 0.960 | | |
| PCB-108/112 | ND | 1.15 | | | PCB-153 | ND | 0.505 | | |
| PCB-110 | 1.45 | | | J | PCB-154 | ND | 1.26 | | |
| PCB-111/115 | ND | 0.896 | | | PCB-155 | ND | 0.909 | | |
| PCB-113 | ND | 1.02 | | | PCB-156 | ND | 0.394 | | |
| PCB-114 | ND | 0.615 | | | PCB-157 | ND | 0.414 | | |
| PCB-119 | ND | 0.886 | | | PCB-158/160 | ND | 0.445 | | |
| PCB-120 | ND | 0.867 | | | PCB-159 | ND | 0.409 | | |
| PCB-121 | ND | 0.938 | | | PCB-166 | ND | 0.438 | | |
| PCB-122 | ND | 0.696 | | | PCB-167 | ND | 0.416 | | |
| PCB-123 | ND | 0.900 | | | PCB-168 | ND | 0.420 | | |
| PCB-124 | ND | 0.934 | | | PCB-169 | ND | 0.425 | | |
| PCB-126 | ND | 0.653 | | | PCB-170 | ND | 0.353 | | |
| PCB-127 | ND | 0.632 | | | PCB-171 | ND | 0.352 | | |
| PCB-128/162 | ND | 0.495 | | | PCB-172 | ND | 0.384 | | |
| PCB-129 | ND | 0.649 | | | PCB-173 | ND | 0.433 | | |
| PCB-130 | ND | 0.652 | | | PCB-174 | ND | 0.394 | | |
| PCB-131 | ND | 0.654 | | | PCB-175 | ND | 0.411 | | |
| PCB-132/161 | ND | 0.518 | | | PCB-176 | ND | 0.297 | | |
| PCB-133/142 | ND | 0.674 | | | PCB-177 | ND | 0.410 | | |
| PCB-134/143 | ND | 0.649 | | | PCB-178 | ND | 0.385 | | |
| PCB-135 | ND | 1.39 | | | PCB-179 | ND | 0.318 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Sample ID: GW-146

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-03 |
| Project: | Stiller Pond | Sample Size: | 1.04 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 10:25 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed : | 22-Mar-17 12:44 Column: ZB-1 |
| | | | | Date Extracted: | 15-Mar-2017 10:04 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|-------|------------|--------------|--------------|----|-------|------------|
| PCB-180 | ND | 0.359 | | | Total octaCB | ND | | 0.444 | |
| PCB-181 | ND | 0.364 | | | Total nonaCB | ND | | 0.211 | |
| PCB-182/187 | ND | 0.372 | | | DecaCB | 0.869 | | | |
| PCB-183 | ND | 0.336 | | | Total PCB | 586 | | | |
| PCB-184 | ND | 0.321 | | | | | | | |
| PCB-185 | ND | 0.374 | | | | | | | |
| PCB-186 | ND | 0.296 | | | | | | | |
| PCB-188 | ND | 0.289 | | | | | | | |
| PCB-189 | ND | 0.236 | | | | | | | |
| PCB-190 | ND | 0.262 | | | | | | | |
| PCB-191 | ND | 0.282 | | | | | | | |
| PCB-192 | ND | 0.294 | | | | | | | |
| PCB-193 | ND | 0.285 | | | | | | | |
| PCB-194 | ND | | 0.444 | | | | | | |
| PCB-195 | ND | 0.303 | | | | | | | |
| PCB-196/203 | ND | 0.978 | | | | | | | |
| PCB-197 | ND | 0.704 | | | | | | | |
| PCB-198 | ND | 1.06 | | | | | | | |
| PCB-199 | ND | 1.07 | | | | | | | |
| PCB-200 | ND | 0.766 | | | | | | | |
| PCB-201 | ND | 0.737 | | | | | | | |
| PCB-202 | ND | 0.789 | | | | | | | |
| PCB-204 | ND | 0.781 | | | | | | | |
| PCB-205 | ND | 0.206 | | | | | | | |
| PCB-206 | ND | 0.210 | | | | | | | |
| PCB-207 | ND | 0.170 | | | | | | | |
| PCB-208 | ND | | 0.211 | | | | | | |
| PCB-209 | 0.869 | | | J | | | | | |
| Total monoCB | 41.0 | | | | | | | | |
| Total diCB | 221 | | | | | | | | |
| Total triCB | 268 | | | | | | | | |
| Total tetraCB | 50.0 | | 52.3 | | | | | | |
| Total pentaCB | 5.56 | | 6.05 | | | | | | |
| Total hexaCB | ND | | 0.554 | | | | | | |
| Total heptaCB | ND | 0.433 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: GW-146

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-03 |
| Project: | Stiller Pond | Sample Size: | 1.04 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 10:25 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed: | 22-Mar-17 12:44 Column: ZB-1 |
| | | | | Date Extracted: | 15-Mar-2017 10:04 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 37.1 | 5 -145 | | 13C-PCB-170 | 92.1 | 10 -145 | |
| 13C-PCB-3 | 41.8 | 5 -145 | | 13C-PCB-180 | 93.5 | 10 -145 | |
| 13C-PCB-4 | 57.6 | 5 -145 | | 13C-PCB-188 | 84.0 | 10 -145 | |
| 13C-PCB-11 | 74.1 | 5 -145 | | 13C-PCB-189 | 94.5 | 10 -145 | |
| 13C-PCB-9 | 62.7 | 5 -145 | | 13C-PCB-194 | 112 | 10 -145 | |
| 13C-PCB-19 | 54.3 | 5 -145 | | 13C-PCB-202 | 68.7 | 10 -145 | |
| 13C-PCB-28 | 72.4 | 5 -145 | | 13C-PCB-206 | 123 | 10 -145 | |
| 13C-PCB-32 | 61.6 | 5 -145 | | 13C-PCB-208 | 140 | 10 -145 | |
| 13C-PCB-37 | 80.6 | 5 -145 | | 13C-PCB-209 | 119 | 10 -145 | |
| 13C-PCB-47 | 83.3 | 5 -145 | | CRS 13C-PCB-79 | 101 | 10 -145 | |
| 13C-PCB-52 | 83.4 | 5 -145 | | 13C-PCB-178 | 86.4 | 10 -145 | |
| 13C-PCB-54 | 73.2 | 5 -145 | | | | | |
| 13C-PCB-70 | 94.6 | 5 -145 | | | | | |
| 13C-PCB-77 | 104 | 10 -145 | | | | | |
| 13C-PCB-80 | 95.6 | 10 -145 | | | | | |
| 13C-PCB-81 | 101 | 10 -145 | | | | | |
| 13C-PCB-95 | 89.1 | 10 -145 | | | | | |
| 13C-PCB-97 | 95.5 | 10 -145 | | | | | |
| 13C-PCB-101 | 92.2 | 10 -145 | | | | | |
| 13C-PCB-104 | 83.3 | 10 -145 | | | | | |
| 13C-PCB-105 | 99.5 | 10 -145 | | | | | |
| 13C-PCB-114 | 102 | 10 -145 | | | | | |
| 13C-PCB-118 | 101 | 10 -145 | | | | | |
| 13C-PCB-123 | 102 | 10 -145 | | | | | |
| 13C-PCB-126 | 93.2 | 10 -145 | | | | | |
| 13C-PCB-127 | 94.6 | 10 -145 | | | | | |
| 13C-PCB-138 | 99.2 | 10 -145 | | | | | |
| 13C-PCB-141 | 100 | 10 -145 | | | | | |
| 13C-PCB-153 | 101 | 10 -145 | | | | | |
| 13C-PCB-155 | 84.6 | 10 -145 | | | | | |
| 13C-PCB-156 | 107 | 10 -145 | | | | | |
| 13C-PCB-157 | 103 | 10 -145 | | | | | |
| 13C-PCB-159 | 102 | 10 -145 | | | | | |
| 13C-PCB-167 | 103 | 10 -145 | | | | | |
| 13C-PCB-169 | 103 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

Sample ID: GW-147

EPA Method 1668C

| Client Data | | Sample Data | | Laboratory Data | | | |
|-----------------|-------------------------------------|--------------|---------|-----------------|-----------------|-----------------|-------------------|
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-04 | Date Received: | 03-Mar-2017 10:19 |
| Project: | Stiller Pond | Sample Size: | 1.03 L | QC Batch: | B7C0079 | Date Extracted: | 15-Mar-2017 10:04 |
| Date Collected: | 02-Mar-2017 9:45 | | | Date Analyzed: | 17-Mar-17 19:37 | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|-----------------|--------------|-------|------|------------|----------------|--------------|-------|-------|------------|
| PCB-1 | 39.9 | | | | PCB-44 | 9.14 | | | |
| PCB-2 | 2.41 | | | J | PCB-45 | 3.86 | | | J |
| PCB-3 | 12.1 | | | | PCB-46 | 1.44 | | | J |
| PCB-4/10 | 70.4 | | | | PCB-47 | 2.29 | | | J |
| PCB-5/8 | 128 | | | | PCB-48/75 | 2.70 | | | J |
| PCB-6 | 25.4 | | | | PCB-50 | ND | 0.910 | | |
| PCB-7/9 | 11.1 | | | | PCB-51 | 1.26 | | | J |
| PCB-11 | 12.7 | | | B | PCB-52/69 | 8.69 | | 2.35 | J |
| PCB-12/13 | ND | 2.47 | | | PCB-53 | ND | | | |
| PCB-14 | ND | 0.947 | | | PCB-54 | ND | 0.761 | | |
| PCB-15 | 29.2 | | | | PCB-55 | ND | 0.496 | | |
| PCB-16/32 | 62.2 | | | | PCB-56/60 | 1.80 | | | J |
| PCB-17 | 30.9 | | | | PCB-57 | ND | 0.506 | | |
| PCB-18 | 88.3 | | | | PCB-58 | ND | 0.489 | | |
| PCB-19 | 12.8 | | | | PCB-61/70 | 3.63 | | | J |
| PCB-20/21/33 | 28.1 | | | | PCB-62 | ND | 0.627 | | |
| PCB-22 | 16.3 | | | | PCB-63 | ND | 0.472 | | |
| PCB-23 | ND | 0.921 | | | PCB-65 | ND | 0.669 | | |
| PCB-24/27 | 7.04 | | | J | PCB-66/76 | 2.77 | | | J |
| PCB-25 | 3.18 | | | J | PCB-67 | ND | 0.516 | | |
| PCB-26 | 7.57 | | | | PCB-68 | ND | 0.558 | | |
| PCB-28 | 30.5 | | | | PCB-73 | ND | 0.630 | | |
| PCB-29 | ND | 0.838 | | | PCB-74 | 1.54 | | | J |
| PCB-30 | ND | 1.16 | | | PCB-77 | ND | 0.493 | | |
| PCB-31 | 33.3 | | | | PCB-78 | ND | 0.534 | | |
| PCB-34 | ND | 0.817 | | | PCB-79 | ND | 0.493 | | |
| PCB-35 | ND | 0.696 | | | PCB-80 | ND | 0.441 | | |
| PCB-36 | ND | 0.684 | | | PCB-81 | ND | 0.494 | | |
| PCB-37 | 4.53 | | | J | PCB-82 | ND | 1.94 | | |
| PCB-38 | ND | 0.706 | | | PCB-83 | ND | 1.26 | | |
| PCB-39 | ND | 0.646 | | | PCB-84/92 | ND | 1.67 | | |
| PCB-40 | 2.18 | | | J | PCB-85/116 | ND | 1.49 | | |
| PCB-41/64/71/72 | 7.74 | | | J | PCB-86 | ND | 2.09 | | |
| PCB-42/59 | 3.34 | | | J | PCB-87/117/125 | ND | | 0.954 | |
| PCB-43/49 | 5.95 | | | J | PCB-88/91 | ND | 1.71 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW-147 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|--------------|------------|------------------|------------------------------|-----------------|-------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: | Aqueous | Lab Sample: | 1700290-04 | Date Received: | 03-Mar-2017 10:19 | |
| Project: Stiller Pond | | | Sample Size: | 1.03 L | QC Batch: | B7C0079 | Date Extracted: | 15-Mar-2017 10:04 | |
| Date Collected: 02-Mar-2017 9:45 | | | | | Date Analyzed: | 17-Mar-17 19:37 Column: ZB-1 | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 1.75 | | | PCB-136 | ND | 0.900 | | |
| PCB-90/101 | 1.16 | | | J | PCB-137 | ND | 0.651 | | |
| PCB-93 | ND | 1.77 | | | PCB-138/163/164 | ND | | 0.477 | |
| PCB-94 | ND | 1.79 | | | PCB-139/149 | 1.08 | | | J |
| PCB-95/98/102 | 1.35 | | | J | PCB-140 | ND | 1.28 | | |
| PCB-96 | ND | 1.43 | | | PCB-141 | ND | 0.668 | | |
| PCB-97 | ND | 1.63 | | | PCB-144 | ND | 1.15 | | |
| PCB-99 | ND | 1.54 | | | PCB-145 | ND | 0.931 | | |
| PCB-100 | ND | 1.60 | | | PCB-146/165 | ND | 0.645 | | |
| PCB-103 | ND | 1.61 | | | PCB-147 | ND | 1.32 | | |
| PCB-104 | ND | 1.26 | | | PCB-148 | ND | 1.30 | | |
| PCB-105 | ND | 0.889 | | | PCB-150 | ND | 0.927 | | |
| PCB-106/118 | ND | | 0.885 | | PCB-151 | ND | 1.24 | | |
| PCB-107/109 | ND | 1.18 | | | PCB-152 | ND | 0.894 | | |
| PCB-108/112 | ND | 1.49 | | | PCB-153 | 0.563 | | | J |
| PCB-110 | 1.26 | | | J | PCB-154 | ND | 1.17 | | |
| PCB-111/115 | ND | 1.16 | | | PCB-155 | ND | 0.848 | | |
| PCB-113 | ND | 1.32 | | | PCB-156 | ND | 0.476 | | |
| PCB-114 | ND | 0.990 | | | PCB-157 | ND | 0.477 | | |
| PCB-119 | ND | 1.14 | | | PCB-158/160 | ND | 0.523 | | |
| PCB-120 | ND | 1.12 | | | PCB-159 | ND | 0.476 | | |
| PCB-121 | ND | 1.22 | | | PCB-166 | ND | 0.510 | | |
| PCB-122 | ND | 1.12 | | | PCB-167 | ND | 0.502 | | |
| PCB-123 | ND | 1.17 | | | PCB-168 | ND | 0.499 | | |
| PCB-124 | ND | 1.21 | | | PCB-169 | ND | 0.511 | | |
| PCB-126 | ND | 1.03 | | | PCB-170 | ND | 0.507 | | |
| PCB-127 | ND | 0.567 | | | PCB-171 | ND | 0.488 | | |
| PCB-128/162 | ND | 0.576 | | | PCB-172 | ND | 0.533 | | |
| PCB-129 | ND | 0.763 | | | PCB-173 | ND | 0.600 | | |
| PCB-130 | ND | 0.771 | | | PCB-174 | ND | 0.546 | | |
| PCB-131 | ND | 0.778 | | | PCB-175 | ND | 0.548 | | |
| PCB-132/161 | ND | 0.617 | | | PCB-176 | ND | 0.396 | | |
| PCB-133/142 | ND | 0.802 | | | PCB-177 | ND | 0.569 | | |
| PCB-134/143 | ND | 0.772 | | | PCB-178 | ND | 0.514 | | |
| PCB-135 | ND | 1.29 | | | PCB-179 | ND | 0.424 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Sample ID: GW-147

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-04 |
| Project: | Stiller Pond | Sample Size: | 1.03 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 9:45 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed : | 17-Mar-17 19:37 Column: ZB-1 |
| | | | | Date Extracted: | 15-Mar-2017 10:04 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|------|------------|--------------|--------------|-------|------|------------|
| PCB-180 | ND | 0.499 | | | Total octaCB | ND | 1.35 | | |
| PCB-181 | ND | 0.506 | | | Total nonaCB | ND | 0.499 | | |
| PCB-182/187 | ND | 0.497 | | | DecaCB | ND | 0.315 | | |
| PCB-183 | ND | 0.448 | | | Total PCB | 720 | | | |
| PCB-184 | ND | 0.428 | | | | | | | |
| PCB-185 | ND | 0.518 | | | | | | | |
| PCB-186 | ND | 0.395 | | | | | | | |
| PCB-188 | ND | 0.386 | | | | | | | |
| PCB-189 | ND | 0.368 | | | | | | | |
| PCB-190 | ND | 0.375 | | | | | | | |
| PCB-191 | ND | 0.391 | | | | | | | |
| PCB-192 | ND | 0.408 | | | | | | | |
| PCB-193 | ND | 0.395 | | | | | | | |
| PCB-194 | ND | 0.496 | | | | | | | |
| PCB-195 | ND | 0.539 | | | | | | | |
| PCB-196/203 | ND | 1.23 | | | | | | | |
| PCB-197 | ND | 0.888 | | | | | | | |
| PCB-198 | ND | 1.33 | | | | | | | |
| PCB-199 | ND | 1.35 | | | | | | | |
| PCB-200 | ND | 0.966 | | | | | | | |
| PCB-201 | ND | 0.930 | | | | | | | |
| PCB-202 | ND | 0.996 | | | | | | | |
| PCB-204 | ND | 0.985 | | | | | | | |
| PCB-205 | ND | 0.367 | | | | | | | |
| PCB-206 | ND | 0.499 | | | | | | | |
| PCB-207 | ND | 0.314 | | | | | | | |
| PCB-208 | ND | 0.312 | | | | | | | |
| PCB-209 | ND | 0.315 | | | | | | | |
| Total monoCB | 54.4 | | | | | | | | |
| Total diCB | 277 | | | | | | | | |
| Total triCB | 325 | | | | | | | | |
| Total tetraCB | 58.3 | | 60.7 | | | | | | |
| Total pentaCB | 3.77 | | 5.60 | | | | | | |
| Total hexaCB | 1.65 | | 2.12 | | | | | | |
| Total heptaCB | ND | 0.600 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: GW-147

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|-------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-04 |
| Project: | Stiller Pond | Sample Size: | 1.03 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 9:45 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed: | 17-Mar-17 19:37 |
| | | | | Column: | ZB-1 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 20.4 | 5 -145 | | 13C-PCB-170 | 87.0 | 10 -145 | |
| 13C-PCB-3 | 22.8 | 5 -145 | | 13C-PCB-180 | 90.3 | 10 -145 | |
| 13C-PCB-4 | 39.8 | 5 -145 | | 13C-PCB-188 | 88.3 | 10 -145 | |
| 13C-PCB-11 | 56.3 | 5 -145 | | 13C-PCB-189 | 85.6 | 10 -145 | |
| 13C-PCB-9 | 44.1 | 5 -145 | | 13C-PCB-194 | 104 | 10 -145 | |
| 13C-PCB-19 | 34.0 | 5 -145 | | 13C-PCB-202 | 62.7 | 10 -145 | |
| 13C-PCB-28 | 58.9 | 5 -145 | | 13C-PCB-206 | 101 | 10 -145 | |
| 13C-PCB-32 | 43.1 | 5 -145 | | 13C-PCB-208 | 111 | 10 -145 | |
| 13C-PCB-37 | 70.2 | 5 -145 | | 13C-PCB-209 | 87.4 | 10 -145 | |
| 13C-PCB-47 | 75.0 | 5 -145 | | CRS 13C-PCB-79 | 94.0 | 10 -145 | |
| 13C-PCB-52 | 71.2 | 5 -145 | | 13C-PCB-178 | 88.1 | 10 -145 | |
| 13C-PCB-54 | 61.8 | 5 -145 | | | | | |
| 13C-PCB-70 | 89.4 | 5 -145 | | | | | |
| 13C-PCB-77 | 93.3 | 10 -145 | | | | | |
| 13C-PCB-80 | 89.8 | 10 -145 | | | | | |
| 13C-PCB-81 | 91.2 | 10 -145 | | | | | |
| 13C-PCB-95 | 88.7 | 10 -145 | | | | | |
| 13C-PCB-97 | 94.1 | 10 -145 | | | | | |
| 13C-PCB-101 | 92.2 | 10 -145 | | | | | |
| 13C-PCB-104 | 82.2 | 10 -145 | | | | | |
| 13C-PCB-105 | 92.9 | 10 -145 | | | | | |
| 13C-PCB-114 | 91.9 | 10 -145 | | | | | |
| 13C-PCB-118 | 98.6 | 10 -145 | | | | | |
| 13C-PCB-123 | 98.3 | 10 -145 | | | | | |
| 13C-PCB-126 | 86.5 | 10 -145 | | | | | |
| 13C-PCB-127 | 86.9 | 10 -145 | | | | | |
| 13C-PCB-138 | 98.8 | 10 -145 | | | | | |
| 13C-PCB-141 | 98.8 | 10 -145 | | | | | |
| 13C-PCB-153 | 99.8 | 10 -145 | | | | | |
| 13C-PCB-155 | 76.3 | 10 -145 | | | | | |
| 13C-PCB-156 | 104 | 10 -145 | | | | | |
| 13C-PCB-157 | 101 | 10 -145 | | | | | |
| 13C-PCB-159 | 99.9 | 10 -145 | | | | | |
| 13C-PCB-167 | 99.8 | 10 -145 | | | | | |
| 13C-PCB-169 | 97.5 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Sample ID: Matrix Spike

EPA Method 1668C

| | | |
|------------------------------|-----------------------------------|---|
| Source Client ID: GW-147 | QC Batch: B7C0079 | Lab Sample: B7C0079-MS1/B7C0079-MSD1 |
| Source LabNumber: 1700290-04 | Date Extracted: 15-Mar-2017 10:04 | Date Analyzed: 17-Mar-17 21:46 Column: ZB-1 |
| Matrix: Aqueous | | 17-Mar-17 22:51 Column: ZB-1 |
| Sample Size: 0.995/0.995 L | | |

| Analyte | Spike-MS (pg/L) | MS %R | MS Qualifiers | Spike-MSD (pg/L) | MSD %R | RPD | MSD Qualifiers | Labeled Standard | MS %R | MS Qualifiers | MSD %R | MSD Qualifiers |
|-------------|-----------------|-------|---------------|------------------|--------|-------|----------------|------------------|-------|---------------|--------|----------------|
| PCB-1 | 1000 | 143 | | 1000 | 137 | 4.29 | | IS 13C-PCB-1 | 14.0 | | 28.3 | |
| PCB-3 | 1000 | 145 | | 1000 | 137 | 5.67 | | IS 13C-PCB-3 | 15.7 | | 31.5 | |
| PCB-4/10 | 2010 | 97.4 | | 2010 | 97.3 | 0.103 | | IS 13C-PCB-4 | 29.4 | | 51.6 | |
| PCB-15 | 1000 | 95.6 | | 1000 | 93.4 | 2.33 | | IS 13C-PCB-11 | 44.0 | | 69.7 | |
| PCB-19 | 1000 | 108 | | 1000 | 109 | 0.922 | | IS 13C-PCB-9 | 33.6 | | 58.9 | |
| PCB-37 | 1000 | 76.4 | | 1000 | 79.8 | 4.35 | | IS 13C-PCB-19 | 25.7 | | 43.9 | |
| PCB-54 | 1000 | 87.2 | | 1000 | 88.2 | 1.14 | | IS 13C-PCB-28 | 43.4 | | 76.7 | |
| PCB-77 | 1000 | 94.7 | | 1000 | 95.1 | 0.421 | | IS 13C-PCB-32 | 31.5 | | 50.9 | |
| PCB-81 | 1000 | 97.3 | | 1000 | 99.1 | 1.83 | | IS 13C-PCB-37 | 59.5 | | 84.1 | |
| PCB-104 | 1000 | 95.8 | | 1000 | 98.5 | 2.78 | | IS 13C-PCB-47 | 61.1 | | 80.6 | |
| PCB-105 | 1000 | 100 | | 1000 | 104 | 3.92 | | IS 13C-PCB-52 | 58.8 | | 80.7 | |
| PCB-106/118 | 2010 | 99.1 | | 2010 | 103 | 3.86 | | IS 13C-PCB-54 | 49.5 | | 78.2 | |
| PCB-114 | 1000 | 108 | | 1000 | 109 | 0.922 | | IS 13C-PCB-70 | 68.7 | | 87.3 | |
| PCB-123 | 1000 | 100 | | 1000 | 101 | 0.995 | | IS 13C-PCB-77 | 75.5 | | 89.2 | |
| PCB-126 | 1000 | 99.4 | | 1000 | 102 | 2.58 | | IS 13C-PCB-80 | 71.4 | | 87.7 | |
| PCB-155 | 1000 | 100 | | 1000 | 102 | 1.98 | | IS 13C-PCB-81 | 75.3 | | 87.4 | |
| PCB-156 | 1000 | 93.9 | | 1000 | 96.7 | 2.94 | | IS 13C-PCB-95 | 71.8 | | 85.4 | |
| PCB-157 | 1000 | 94.8 | | 1000 | 98.8 | 4.13 | | IS 13C-PCB-97 | 75.1 | | 86.9 | |
| PCB-167 | 1000 | 92.2 | | 1000 | 94.7 | 2.68 | | IS 13C-PCB-101 | 73.1 | | 86.5 | |
| PCB-169 | 1000 | 95.3 | | 1000 | 96.9 | 1.66 | | IS 13C-PCB-104 | 65.0 | | 85.3 | |
| PCB-188 | 1000 | 93.8 | | 1000 | 96.6 | 2.94 | | IS 13C-PCB-105 | 76.5 | | 85.8 | |
| PCB-189 | 1000 | 99.2 | | 1000 | 104 | 4.72 | | IS 13C-PCB-114 | 75.1 | | 92.2 | |
| PCB-202 | 1000 | 103 | | 1000 | 108 | 4.74 | | IS 13C-PCB-118 | 76.4 | | 86.5 | |
| PCB-205 | 1000 | 85.3 | | 1000 | 87.7 | 2.77 | | IS 13C-PCB-123 | 77.6 | | 89.1 | |
| PCB-206 | 1000 | 93.2 | | 1000 | 93.5 | 0.321 | | IS 13C-PCB-126 | 70.1 | | 80.3 | |
| PCB-208 | 1000 | 94.2 | | 1000 | 95.1 | 0.951 | | IS 13C-PCB-127 | 70.0 | | 83.4 | |
| PCB-209 | 1000 | 101 | | 1000 | 102 | 0.985 | | IS 13C-PCB-138 | 81.0 | | 94.8 | |
| | | | | | | | | IS 13C-PCB-141 | 80.8 | | 95.1 | |
| | | | | | | | | IS 13C-PCB-153 | 82.3 | | 97.7 | |
| | | | | | | | | IS 13C-PCB-155 | 55.1 | | 65.2 | |
| | | | | | | | | IS 13C-PCB-156 | 82.8 | | 94.5 | |
| | | | | | | | | IS 13C-PCB-157 | 80.4 | | 91.2 | |
| | | | | | | | | IS 13C-PCB-159 | 82.7 | | 96.2 | |
| | | | | | | | | IS 13C-PCB-167 | 82.3 | | 94.4 | |
| | | | | | | | | IS 13C-PCB-169 | 78.0 | | 89.7 | |
| | | | | | | | | IS 13C-PCB-170 | 68.9 | | 72.5 | |
| | | | | | | | | IS 13C-PCB-180 | 71.9 | | 77.1 | |
| | | | | | | | | IS 13C-PCB-188 | 73.0 | | 85.8 | |

| Sample ID: Matrix Spike | | | | | | | | EPA Method 1668C | | | | |
|--------------------------------|--------------------|-----------------------------------|------------------|---|-----------|-----|-------------------|-------------------------|----------|------------------|-----------|-------------------|
| Source Client ID: GW-147 | | QC Batch: B7C0079 | | Lab Sample: B7C0079-MS1/B7C0079-MSD1 | | | | | | | | |
| Source LabNumber: 1700290-04 | | Date Extracted: 15-Mar-2017 10:04 | | Date Analyzed: 17-Mar-17 21:46 Column: ZB-1 | | | | | | | | |
| Matrix: Aqueous | | | | 17-Mar-17 22:51 Column: ZB-1 | | | | | | | | |
| Sample Size: 0.995/0.995 L | | | | | | | | | | | | |
| Analyte | Spike-MS (pg/L) | MS %R | MS Qualifiers | Spike-MSD (pg/L) | MSD %R | RPD | MSD Qualifiers | Labeled Standard | MS %R | MS Qualifiers | MSD %R | MSD Qualifiers |
| | | | | | | | | IS 13C-PCB-189 | 66.9 | | 73.0 | |
| | | | | | | | | IS 13C-PCB-194 | 84.6 | | 95.0 | |
| | | | | | | | | IS 13C-PCB-202 | 45.2 | | 42.8 | |
| | | | | | | | | IS 13C-PCB-206 | 86.1 | | 93.7 | |
| | | | | | | | | IS 13C-PCB-208 | 93.1 | | 98.7 | |
| | | | | | | | | IS 13C-PCB-209 | 73.3 | | 81.2 | |
| | | | | | | | | CRS 13C-PCB-79 | 85.3 | | 93.0 | |
| | | | | | | | | CRS 13C-PCB-178 | 81.7 | | 87.3 | |

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

Sample ID: Source **EPA Method 1668C**

| | | |
|---|--|--|
| Client Data Name: Walla Walla Basin Watershed Council Project: Stiller Pond Date Collected: 02-Mar-2017 10:05 | Sample Data Matrix: Aqueous Sample Size: 1.00 L | Laboratory Data Lab Sample: 1700290-05 Date Received: 03-Mar-2017 10:19 QC Batch: B7C0079 Date Extracted: 15-Mar-2017 10:04 Date Analyzed: 22-Mar-17 13:49 Column: ZB-1 |
|---|--|--|

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|-----------------|--------------|-------|-------|------------|----------------|--------------|-------|-------|------------|
| PCB-1 | ND | 1.23 | | | PCB-44 | 1.67 | | | J |
| PCB-2 | ND | 1.20 | | | PCB-45 | ND | 0.531 | | |
| PCB-3 | ND | 1.16 | | | PCB-46 | ND | 0.568 | | |
| PCB-4/10 | ND | 1.42 | | | PCB-47 | 2.70 | | | J |
| PCB-5/8 | ND | | 1.48 | | PCB-48/75 | ND | 0.393 | | |
| PCB-6 | ND | 1.58 | | | PCB-50 | ND | 0.528 | | |
| PCB-7/9 | ND | 0.757 | | | PCB-51 | ND | | 0.396 | |
| PCB-11 | 5.04 | | | B | PCB-52/69 | 2.01 | | | J |
| PCB-12/13 | ND | 0.688 | | | PCB-53 | ND | 0.480 | | |
| PCB-14 | ND | 0.596 | | | PCB-54 | ND | 0.442 | | |
| PCB-15 | ND | 0.942 | | | PCB-55 | ND | 0.330 | | |
| PCB-16/32 | 2.23 | | | J | PCB-56/60 | 0.920 | | | J |
| PCB-17 | 1.23 | | | J | PCB-57 | ND | 0.334 | | |
| PCB-18 | 3.58 | | | J | PCB-58 | ND | 0.323 | | |
| PCB-19 | ND | 0.760 | | | PCB-61/70 | 1.72 | | | J |
| PCB-20/21/33 | ND | | 1.38 | | PCB-62 | ND | 0.383 | | |
| PCB-22 | ND | | 0.725 | | PCB-63 | ND | 0.311 | | |
| PCB-23 | ND | 0.604 | | | PCB-65 | ND | 0.408 | | |
| PCB-24/27 | ND | 0.894 | | | PCB-66/76 | ND | | 1.07 | |
| PCB-25 | ND | 0.561 | | | PCB-67 | ND | 0.340 | | |
| PCB-26 | ND | 0.618 | | | PCB-68 | 0.410 | | | J |
| PCB-28 | 2.09 | | | J | PCB-73 | ND | 0.385 | | |
| PCB-29 | ND | 0.550 | | | PCB-74 | 0.787 | | | J |
| PCB-30 | ND | 0.499 | | | PCB-77 | ND | 0.281 | | |
| PCB-31 | 1.93 | | | J | PCB-78 | ND | 0.329 | | |
| PCB-34 | ND | 0.536 | | | PCB-79 | ND | 0.327 | | |
| PCB-35 | ND | 0.449 | | | PCB-80 | ND | 0.293 | | |
| PCB-36 | ND | 0.442 | | | PCB-81 | ND | 0.304 | | |
| PCB-37 | 0.648 | | | J | PCB-82 | ND | 1.20 | | |
| PCB-38 | ND | 0.456 | | | PCB-83 | ND | 0.783 | | |
| PCB-39 | ND | 0.417 | | | PCB-84/92 | ND | 1.05 | | |
| PCB-40 | ND | 0.602 | | | PCB-85/116 | ND | 0.925 | | |
| PCB-41/64/71/72 | 1.13 | | | J | PCB-86 | ND | 1.30 | | |
| PCB-42/59 | 0.535 | | | J | PCB-87/117/125 | ND | 0.838 | | |
| PCB-43/49 | 0.941 | | | J | PCB-88/91 | ND | 1.10 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Source | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|-----------------------------------|------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700290-05 | | Date Received: 03-Mar-2017 10:19 | | |
| Project: Stiller Pond | | | Sample Size: 1.00 L | | QC Batch: B7C0079 | | Date Extracted: 15-Mar-2017 10:04 | | |
| Date Collected: 02-Mar-2017 10:05 | | | | | Date Analyzed: 22-Mar-17 13:49 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 1.10 | | | PCB-136 | ND | 0.499 | | |
| PCB-90/101 | 2.69 | | | J | PCB-137 | ND | 0.427 | | |
| PCB-93 | ND | 1.13 | | | PCB-138/163/164 | 2.07 | | | J |
| PCB-94 | ND | 1.15 | | | PCB-139/149 | ND | | 1.10 | |
| PCB-95/98/102 | 1.81 | | | J | PCB-140 | ND | 1.07 | | |
| PCB-96 | ND | 0.926 | | | PCB-141 | ND | 0.439 | | |
| PCB-97 | ND | 1.01 | | | PCB-144 | ND | 0.970 | | |
| PCB-99 | ND | 0.896 | | | PCB-145 | ND | 0.784 | | |
| PCB-100 | ND | 1.04 | | | PCB-146/165 | ND | 0.405 | | |
| PCB-103 | ND | 1.04 | | | PCB-147 | ND | 1.11 | | |
| PCB-104 | ND | 0.817 | | | PCB-148 | ND | 1.09 | | |
| PCB-105 | 0.609 | | | J | PCB-150 | ND | 0.781 | | |
| PCB-106/118 | 1.55 | | | J | PCB-151 | ND | 0.767 | | |
| PCB-107/109 | ND | 0.728 | | | PCB-152 | ND | 0.753 | | |
| PCB-108/112 | ND | 0.925 | | | PCB-153 | 1.94 | | | J |
| PCB-110 | 2.45 | | | J | PCB-154 | ND | 0.987 | | |
| PCB-111/115 | ND | 0.718 | | | PCB-155 | ND | 0.714 | | |
| PCB-113 | ND | 0.828 | | | PCB-156 | ND | 0.362 | | |
| PCB-114 | ND | 0.635 | | | PCB-157 | ND | 0.312 | | |
| PCB-119 | ND | 0.710 | | | PCB-158/160 | ND | 0.397 | | |
| PCB-120 | ND | 0.695 | | | PCB-159 | ND | 0.311 | | |
| PCB-121 | ND | 0.779 | | | PCB-166 | ND | 0.334 | | |
| PCB-122 | ND | 0.719 | | | PCB-167 | ND | 0.310 | | |
| PCB-123 | ND | 0.723 | | | PCB-168 | ND | 0.314 | | |
| PCB-124 | ND | 0.750 | | | PCB-169 | ND | 0.317 | | |
| PCB-126 | ND | 0.709 | | | PCB-170 | ND | 0.289 | | |
| PCB-127 | ND | 0.689 | | | PCB-171 | ND | 0.370 | | |
| PCB-128/162 | ND | 0.444 | | | PCB-172 | ND | 0.403 | | |
| PCB-129 | ND | 0.491 | | | PCB-173 | ND | 0.454 | | |
| PCB-130 | ND | 0.507 | | | PCB-174 | ND | 0.291 | | |
| PCB-131 | ND | 0.489 | | | PCB-175 | ND | 0.441 | | |
| PCB-132/161 | 0.545 | | | J | PCB-176 | ND | 0.318 | | |
| PCB-133/142 | ND | 0.504 | | | PCB-177 | ND | 0.431 | | |
| PCB-134/143 | ND | 0.485 | | | PCB-178 | ND | 0.413 | | |
| PCB-135 | ND | 1.09 | | | PCB-179 | ND | 0.341 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

| Sample ID: Source | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|-----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700290-05 | | Date Received: 03-Mar-2017 10:19 | | |
| Project: Stiller Pond | | | Sample Size: 1.00 L | | QC Batch: B7C0079 | | Date Extracted: 15-Mar-2017 10:04 | | |
| Date Collected: 02-Mar-2017 10:05 | | | | | Date Analyzed: 22-Mar-17 13:49 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-180 | ND | | 0.696 | | Total octaCB | 0.661 | | | |
| PCB-181 | ND | 0.269 | | | Total nonaCB | ND | | 0.806 | |
| PCB-182/187 | ND | | 0.899 | | DecaCB | ND | | 1.06 | |
| PCB-183 | ND | 0.304 | | | Total PCB | 43.9 | | | |
| PCB-184 | ND | 0.344 | | | | | | | |
| PCB-185 | ND | 0.392 | | | | | | | |
| PCB-186 | ND | 0.317 | | | | | | | |
| PCB-188 | ND | 0.310 | | | | | | | |
| PCB-189 | ND | 0.248 | | | | | | | |
| PCB-190 | ND | 0.273 | | | | | | | |
| PCB-191 | ND | 0.296 | | | | | | | |
| PCB-192 | ND | 0.309 | | | | | | | |
| PCB-193 | ND | 0.299 | | | | | | | |
| PCB-194 | 0.661 | | | J | | | | | |
| PCB-195 | ND | 0.440 | | | | | | | |
| PCB-196/203 | ND | 0.674 | | | | | | | |
| PCB-197 | ND | 0.533 | | | | | | | |
| PCB-198 | ND | 0.800 | | | | | | | |
| PCB-199 | ND | 0.734 | | | | | | | |
| PCB-200 | ND | 0.580 | | | | | | | |
| PCB-201 | ND | 0.558 | | | | | | | |
| PCB-202 | ND | 0.598 | | | | | | | |
| PCB-204 | ND | 0.591 | | | | | | | |
| PCB-205 | ND | 0.299 | | | | | | | |
| PCB-206 | ND | | 0.583 | | | | | | |
| PCB-207 | ND | 0.233 | | | | | | | |
| PCB-208 | ND | | 0.223 | | | | | | |
| PCB-209 | ND | | 1.06 | | | | | | |
| Total monoCB | ND | 1.23 | | | | | | | |
| Total diCB | 5.04 | | 6.52 | | | | | | |
| Total triCB | 11.7 | | 13.8 | | | | | | |
| Total tetraCB | 12.8 | | 14.3 | | | | | | |
| Total pentaCB | 9.11 | | | | | | | | |
| Total hexaCB | 4.55 | | 5.65 | | | | | | |
| Total heptaCB | ND | | 1.60 | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

| Sample ID: Source | | | | EPA Method 1668C | | | |
|---|------|---------------------|------------|---|------|-----------------------------------|------------|
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: Walla Walla Basin Watershed Council | | Matrix: Aqueous | | Lab Sample: 1700290-05 | | Date Received: 03-Mar-2017 10:19 | |
| Project: Stiller Pond | | Sample Size: 1.00 L | | QC Batch: B7C0079 | | Date Extracted: 15-Mar-2017 10:04 | |
| Date Collected: 02-Mar-2017 10:05 | | | | Date Analyzed: 22-Mar-17 13:49 Column: ZB-1 | | | |
| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
| IS 13C-PCB-1 | 38.0 | 5 -145 | | 13C-PCB-170 | 93.1 | 10 -145 | |
| 13C-PCB-3 | 43.0 | 5 -145 | | 13C-PCB-180 | 92.9 | 10 -145 | |
| 13C-PCB-4 | 60.9 | 5 -145 | | 13C-PCB-188 | 82.4 | 10 -145 | |
| 13C-PCB-11 | 79.6 | 5 -145 | | 13C-PCB-189 | 94.6 | 10 -145 | |
| 13C-PCB-9 | 67.0 | 5 -145 | | 13C-PCB-194 | 109 | 10 -145 | |
| 13C-PCB-19 | 55.5 | 5 -145 | | 13C-PCB-202 | 63.3 | 10 -145 | |
| 13C-PCB-28 | 68.9 | 5 -145 | | 13C-PCB-206 | 126 | 10 -145 | |
| 13C-PCB-32 | 65.4 | 5 -145 | | 13C-PCB-208 | 133 | 10 -145 | |
| 13C-PCB-37 | 87.7 | 5 -145 | | 13C-PCB-209 | 116 | 10 -145 | |
| 13C-PCB-47 | 84.2 | 5 -145 | | CRS 13C-PCB-79 | 94.6 | 10 -145 | |
| 13C-PCB-52 | 83.1 | 5 -145 | | 13C-PCB-178 | 84.9 | 10 -145 | |
| 13C-PCB-54 | 74.1 | 5 -145 | | | | | |
| 13C-PCB-70 | 94.7 | 5 -145 | | | | | |
| 13C-PCB-77 | 99.6 | 10 -145 | | | | | |
| 13C-PCB-80 | 95.6 | 10 -145 | | | | | |
| 13C-PCB-81 | 103 | 10 -145 | | | | | |
| 13C-PCB-95 | 92.2 | 10 -145 | | | | | |
| 13C-PCB-97 | 100 | 10 -145 | | | | | |
| 13C-PCB-101 | 97.3 | 10 -145 | | | | | |
| 13C-PCB-104 | 86.2 | 10 -145 | | | | | |
| 13C-PCB-105 | 95.7 | 10 -145 | | | | | |
| 13C-PCB-114 | 100 | 10 -145 | | | | | |
| 13C-PCB-118 | 105 | 10 -145 | | | | | |
| 13C-PCB-123 | 106 | 10 -145 | | | | | |
| 13C-PCB-126 | 90.8 | 10 -145 | | | | | |
| 13C-PCB-127 | 91.2 | 10 -145 | | | | | |
| 13C-PCB-138 | 102 | 10 -145 | | | | | |
| 13C-PCB-141 | 101 | 10 -145 | | | | | |
| 13C-PCB-153 | 103 | 10 -145 | | | | | |
| 13C-PCB-155 | 86.9 | 10 -145 | | | | | |
| 13C-PCB-156 | 106 | 10 -145 | | | | | |
| 13C-PCB-157 | 103 | 10 -145 | | | | | |
| 13C-PCB-159 | 102 | 10 -145 | | | | | |
| 13C-PCB-167 | 104 | 10 -145 | | | | | |
| 13C-PCB-169 | 105 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

Sample ID: Field Dup-147

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-06 |
| Project: | Stiller Pond | Sample Size: | 0.997 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 9:45 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed : | 17-Mar-17 20:41 Column: ZB-1 |
| | | | | Date Extracted: | 15-Mar-2017 10:04 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|-----------------|--------------|-------|------|------------|----------------|--------------|-------|-------|------------|
| PCB-1 | 42.2 | | | | PCB-44 | 8.48 | | | |
| PCB-2 | 2.24 | | | J | PCB-45 | 3.92 | | | J |
| PCB-3 | 12.7 | | | | PCB-46 | 1.95 | | | J |
| PCB-4/10 | 68.9 | | | | PCB-47 | 3.58 | | | J |
| PCB-5/8 | 125 | | | | PCB-48/75 | 2.61 | | | J |
| PCB-6 | 23.8 | | | | PCB-50 | ND | 0.909 | | |
| PCB-7/9 | 9.80 | | | J | PCB-51 | 1.17 | | | J |
| PCB-11 | 9.53 | | | B | PCB-52/69 | 7.94 | | | J |
| PCB-12/13 | ND | 3.16 | | | PCB-53 | 3.21 | | | J |
| PCB-14 | ND | 0.938 | | | PCB-54 | ND | 0.761 | | |
| PCB-15 | 28.1 | | | | PCB-55 | ND | 0.591 | | |
| PCB-16/32 | 63.1 | | | | PCB-56/60 | 2.24 | | | J |
| PCB-17 | 33.8 | | | | PCB-57 | ND | 0.628 | | |
| PCB-18 | 97.0 | | | | PCB-58 | ND | 0.607 | | |
| PCB-19 | 12.8 | | | | PCB-61/70 | 3.39 | | | J |
| PCB-20/21/33 | 29.5 | | | | PCB-62 | ND | 0.679 | | |
| PCB-22 | 14.7 | | | | PCB-63 | ND | 0.586 | | |
| PCB-23 | ND | 1.15 | | | PCB-65 | ND | 0.724 | | |
| PCB-24/27 | 7.03 | | | J | PCB-66/76 | 2.62 | | | J |
| PCB-25 | 3.11 | | | J | PCB-67 | ND | 0.640 | | |
| PCB-26 | 8.41 | | | | PCB-68 | ND | | 0.407 | |
| PCB-28 | 32.3 | | | | PCB-73 | ND | 0.699 | | |
| PCB-29 | ND | 1.05 | | | PCB-74 | 1.55 | | | J |
| PCB-30 | ND | 0.826 | | | PCB-77 | ND | 0.615 | | |
| PCB-31 | 34.2 | | | | PCB-78 | ND | 0.663 | | |
| PCB-34 | ND | 1.02 | | | PCB-79 | ND | 0.586 | | |
| PCB-35 | ND | 0.888 | | | PCB-80 | ND | 0.525 | | |
| PCB-36 | ND | 0.873 | | | PCB-81 | ND | 0.612 | | |
| PCB-37 | 4.00 | | | J | PCB-82 | ND | 2.07 | | |
| PCB-38 | ND | 0.901 | | | PCB-83 | ND | 1.31 | | |
| PCB-39 | ND | 0.824 | | | PCB-84/92 | ND | 1.75 | | |
| PCB-40 | ND | | 1.17 | | PCB-85/116 | ND | 1.55 | | |
| PCB-41/64/71/72 | 6.96 | | | J | PCB-86 | ND | 2.18 | | |
| PCB-42/59 | 3.24 | | | J | PCB-87/117/125 | ND | 1.40 | | |
| PCB-43/49 | 5.64 | | | J | PCB-88/91 | ND | 1.75 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

| Sample ID: Field Dup-147 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|----------------------|------------|--------------------------------|--------------|-----------------------------------|------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700290-06 | | Date Received: 03-Mar-2017 10:19 | | |
| Project: Stiller Pond | | | Sample Size: 0.997 L | | QC Batch: B7C0079 | | Date Extracted: 15-Mar-2017 10:04 | | |
| Date Collected: 02-Mar-2017 9:45 | | | | | Date Analyzed: 17-Mar-17 20:41 | | Column: ZB-1 | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 1.83 | | | PCB-136 | ND | 1.18 | | |
| PCB-90/101 | 1.33 | | | J | PCB-137 | ND | 0.692 | | |
| PCB-93 | ND | 1.80 | | | PCB-138/163/164 | ND | 0.552 | | |
| PCB-94 | ND | 1.83 | | | PCB-139/149 | ND | 1.53 | | |
| PCB-95/98/102 | 1.72 | | | J | PCB-140 | ND | 1.67 | | |
| PCB-96 | ND | 1.43 | | | PCB-141 | ND | 0.710 | | |
| PCB-97 | ND | 1.70 | | | PCB-144 | ND | 1.51 | | |
| PCB-99 | ND | | 0.807 | | PCB-145 | ND | 1.22 | | |
| PCB-100 | ND | 1.60 | | | PCB-146/165 | ND | 0.659 | | |
| PCB-103 | ND | 1.61 | | | PCB-147 | ND | 1.73 | | |
| PCB-104 | ND | 1.26 | | | PCB-148 | ND | 1.70 | | |
| PCB-105 | ND | 0.954 | | | PCB-150 | ND | 1.22 | | |
| PCB-106/118 | ND | | 0.666 | | PCB-151 | ND | 1.63 | | |
| PCB-107/109 | ND | 1.26 | | | PCB-152 | ND | 1.17 | | |
| PCB-108/112 | ND | 1.55 | | | PCB-153 | ND | 0.615 | | |
| PCB-110 | ND | | 1.22 | | PCB-154 | ND | 1.54 | | |
| PCB-111/115 | ND | 1.20 | | | PCB-155 | ND | 1.11 | | |
| PCB-113 | ND | 1.38 | | | PCB-156 | ND | 0.512 | | |
| PCB-114 | ND | 0.975 | | | PCB-157 | ND | 0.534 | | |
| PCB-119 | ND | 1.19 | | | PCB-158/160 | ND | 0.552 | | |
| PCB-120 | ND | 1.17 | | | PCB-159 | ND | 0.499 | | |
| PCB-121 | ND | 1.24 | | | PCB-166 | ND | 0.534 | | |
| PCB-122 | ND | 1.10 | | | PCB-167 | ND | 0.514 | | |
| PCB-123 | ND | 1.25 | | | PCB-168 | ND | 0.511 | | |
| PCB-124 | ND | 1.30 | | | PCB-169 | ND | 0.582 | | |
| PCB-126 | ND | 1.03 | | | PCB-170 | ND | 0.490 | | |
| PCB-127 | ND | 1.08 | | | PCB-171 | ND | 0.472 | | |
| PCB-128/162 | ND | 0.604 | | | PCB-172 | ND | 0.515 | | |
| PCB-129 | ND | 0.804 | | | PCB-173 | ND | 0.580 | | |
| PCB-130 | ND | 0.820 | | | PCB-174 | ND | 0.528 | | |
| PCB-131 | ND | 0.796 | | | PCB-175 | ND | 0.484 | | |
| PCB-132/161 | ND | 0.631 | | | PCB-176 | ND | 0.349 | | |
| PCB-133/142 | ND | 0.820 | | | PCB-177 | ND | 0.550 | | |
| PCB-134/143 | ND | 0.790 | | | PCB-178 | ND | 0.454 | | |
| PCB-135 | ND | 1.69 | | | PCB-179 | ND | 0.374 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

| Sample ID: Field Dup-147 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|----------------------|------------|--------------------------------|--------------|-----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700290-06 | | Date Received: 03-Mar-2017 10:19 | | |
| Project: Stiller Pond | | | Sample Size: 0.997 L | | QC Batch: B7C0079 | | Date Extracted: 15-Mar-2017 10:04 | | |
| Date Collected: 02-Mar-2017 9:45 | | | | | Date Analyzed: 17-Mar-17 20:41 | | Column: ZB-1 | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-180 | ND | 0.482 | | | Total octaCB | ND | | 0.425 | |
| PCB-181 | ND | 0.488 | | | Total nonaCB | ND | 0.542 | | |
| PCB-182/187 | ND | 0.438 | | | DecaCB | ND | 0.404 | | |
| PCB-183 | ND | 0.396 | | | Total PCB | 724 | | | |
| PCB-184 | ND | 0.378 | | | | | | | |
| PCB-185 | ND | 0.500 | | | | | | | |
| PCB-186 | ND | 0.349 | | | | | | | |
| PCB-188 | ND | 0.341 | | | | | | | |
| PCB-189 | ND | 0.350 | | | | | | | |
| PCB-190 | ND | 0.363 | | | | | | | |
| PCB-191 | ND | 0.378 | | | | | | | |
| PCB-192 | ND | 0.395 | | | | | | | |
| PCB-193 | ND | 0.381 | | | | | | | |
| PCB-194 | ND | | 0.425 | | | | | | |
| PCB-195 | ND | 0.536 | | | | | | | |
| PCB-196/203 | ND | 1.34 | | | | | | | |
| PCB-197 | ND | 0.966 | | | | | | | |
| PCB-198 | ND | 1.45 | | | | | | | |
| PCB-199 | ND | 1.46 | | | | | | | |
| PCB-200 | ND | 1.05 | | | | | | | |
| PCB-201 | ND | 1.01 | | | | | | | |
| PCB-202 | ND | 1.08 | | | | | | | |
| PCB-204 | ND | 1.07 | | | | | | | |
| PCB-205 | ND | 0.365 | | | | | | | |
| PCB-206 | ND | 0.542 | | | | | | | |
| PCB-207 | ND | 0.316 | | | | | | | |
| PCB-208 | ND | 0.313 | | | | | | | |
| PCB-209 | ND | 0.404 | | | | | | | |
| Total monoCB | 57.1 | | | | | | | | |
| Total diCB | 265 | | | | | | | | |
| Total triCB | 340 | | | | | | | | |
| Total tetraCB | 58.5 | | 60.1 | | | | | | |
| Total pentaCB | 3.05 | | 5.74 | | | | | | |
| Total hexaCB | ND | 1.73 | | | | | | | |
| Total heptaCB | ND | 0.580 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: Field Dup-147

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|-------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-06 |
| Project: | Stiller Pond | Sample Size: | 0.997 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 9:45 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed: | 17-Mar-17 20:41 |
| | | | | Column: | ZB-1 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 24.3 | 5 -145 | | 13C-PCB-170 | 77.7 | 10 -145 | |
| 13C-PCB-3 | 26.8 | 5 -145 | | 13C-PCB-180 | 81.8 | 10 -145 | |
| 13C-PCB-4 | 45.7 | 5 -145 | | 13C-PCB-188 | 83.4 | 10 -145 | |
| 13C-PCB-11 | 61.1 | 5 -145 | | 13C-PCB-189 | 75.8 | 10 -145 | |
| 13C-PCB-9 | 51.8 | 5 -145 | | 13C-PCB-194 | 93.6 | 10 -145 | |
| 13C-PCB-19 | 35.8 | 5 -145 | | 13C-PCB-202 | 52.1 | 10 -145 | |
| 13C-PCB-28 | 60.3 | 5 -145 | | 13C-PCB-206 | 93.8 | 10 -145 | |
| 13C-PCB-32 | 43.7 | 5 -145 | | 13C-PCB-208 | 102 | 10 -145 | |
| 13C-PCB-37 | 69.5 | 5 -145 | | 13C-PCB-209 | 79.0 | 10 -145 | |
| 13C-PCB-47 | 77.3 | 5 -145 | | CRS 13C-PCB-79 | 87.0 | 10 -145 | |
| 13C-PCB-52 | 72.6 | 5 -145 | | 13C-PCB-178 | 86.0 | 10 -145 | |
| 13C-PCB-54 | 67.1 | 5 -145 | | | | | |
| 13C-PCB-70 | 79.9 | 5 -145 | | | | | |
| 13C-PCB-77 | 84.2 | 10 -145 | | | | | |
| 13C-PCB-80 | 84.4 | 10 -145 | | | | | |
| 13C-PCB-81 | 82.2 | 10 -145 | | | | | |
| 13C-PCB-95 | 87.3 | 10 -145 | | | | | |
| 13C-PCB-97 | 89.9 | 10 -145 | | | | | |
| 13C-PCB-101 | 86.7 | 10 -145 | | | | | |
| 13C-PCB-104 | 82.3 | 10 -145 | | | | | |
| 13C-PCB-105 | 82.0 | 10 -145 | | | | | |
| 13C-PCB-114 | 88.6 | 10 -145 | | | | | |
| 13C-PCB-118 | 90.8 | 10 -145 | | | | | |
| 13C-PCB-123 | 91.9 | 10 -145 | | | | | |
| 13C-PCB-126 | 80.5 | 10 -145 | | | | | |
| 13C-PCB-127 | 78.3 | 10 -145 | | | | | |
| 13C-PCB-138 | 92.2 | 10 -145 | | | | | |
| 13C-PCB-141 | 91.9 | 10 -145 | | | | | |
| 13C-PCB-153 | 94.6 | 10 -145 | | | | | |
| 13C-PCB-155 | 69.4 | 10 -145 | | | | | |
| 13C-PCB-156 | 95.1 | 10 -145 | | | | | |
| 13C-PCB-157 | 92.1 | 10 -145 | | | | | |
| 13C-PCB-159 | 92.5 | 10 -145 | | | | | |
| 13C-PCB-167 | 93.1 | 10 -145 | | | | | |
| 13C-PCB-169 | 89.4 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

| Sample ID: Field Blank | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|-----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700290-07 | | Date Received: 03-Mar-2017 10:19 | | |
| Project: Stiller Pond | | | Sample Size: 1.00 L | | QC Batch: B7C0079 | | Date Extracted: 15-Mar-2017 10:04 | | |
| Date Collected: 02-Mar-2017 9:45 | | | | | Date Analyzed: 22-Mar-17 11:39 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | 50.5 | | | | PCB-44 | ND | | 3.33 | |
| PCB-2 | 4.87 | | | J | PCB-45 | 1.22 | | | J |
| PCB-3 | 28.7 | | | | PCB-46 | ND | | 0.432 | |
| PCB-4/10 | 18.3 | | | | PCB-47 | ND | | 1.88 | |
| PCB-5/8 | 134 | | | | PCB-48/75 | 0.849 | | | J |
| PCB-6 | 18.1 | | | | PCB-50 | ND | 0.744 | | |
| PCB-7/9 | 8.65 | | | J | PCB-51 | 0.678 | | | J |
| PCB-11 | 14.9 | | | B | PCB-52/69 | 3.25 | | | J |
| PCB-12/13 | 4.63 | | | J | PCB-53 | 1.04 | | | J |
| PCB-14 | ND | 0.699 | | | PCB-54 | ND | 0.622 | | |
| PCB-15 | 43.1 | | | | PCB-55 | ND | 0.425 | | |
| PCB-16/32 | 14.6 | | | | PCB-56/60 | 1.29 | | | J |
| PCB-17 | 7.41 | | | | PCB-57 | ND | 0.436 | | |
| PCB-18 | 16.9 | | | | PCB-58 | ND | 0.421 | | |
| PCB-19 | 1.39 | | | J | PCB-61/70 | 1.98 | | | J |
| PCB-20/21/33 | 18.7 | | | | PCB-62 | ND | 0.519 | | |
| PCB-22 | 11.9 | | | | PCB-63 | ND | 0.407 | | |
| PCB-23 | ND | 0.664 | | | PCB-65 | ND | 0.554 | | |
| PCB-24/27 | 1.47 | | | J | PCB-66/76 | 1.72 | | | J |
| PCB-25 | 2.21 | | | J | PCB-67 | ND | 0.445 | | |
| PCB-26 | 3.58 | | | J | PCB-68 | 0.467 | | | J |
| PCB-28 | 27.5 | | | | PCB-73 | ND | 0.508 | | |
| PCB-29 | ND | 0.605 | | | PCB-74 | 0.973 | | | J |
| PCB-30 | ND | 0.501 | | | PCB-77 | ND | 0.394 | | |
| PCB-31 | 22.0 | | | | PCB-78 | ND | 0.457 | | |
| PCB-34 | ND | 0.589 | | | PCB-79 | ND | 0.422 | | |
| PCB-35 | ND | 0.450 | | | PCB-80 | ND | 0.378 | | |
| PCB-36 | ND | 0.443 | | | PCB-81 | ND | 0.422 | | |
| PCB-37 | 3.07 | | | J | PCB-82 | ND | 1.55 | | |
| PCB-38 | ND | 0.457 | | | PCB-83 | ND | 0.982 | | |
| PCB-39 | ND | 0.418 | | | PCB-84/92 | ND | | 0.662 | |
| PCB-40 | ND | 0.816 | | | PCB-85/116 | ND | 1.16 | | |
| PCB-41/64/71/72 | 3.62 | | | J | PCB-86 | ND | 1.63 | | |
| PCB-42/59 | 1.47 | | | J | PCB-87/117/125 | ND | 1.05 | | |
| PCB-43/49 | 2.19 | | | J | PCB-88/91 | ND | 1.40 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

| Sample ID: Field Blank | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|-----------------------------------|------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700290-07 | | Date Received: 03-Mar-2017 10:19 | | |
| Project: Stiller Pond | | | Sample Size: 1.00 L | | QC Batch: B7C0079 | | Date Extracted: 15-Mar-2017 10:04 | | |
| Date Collected: 02-Mar-2017 9:45 | | | | | Date Analyzed: 22-Mar-17 11:39 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 1.38 | | | PCB-136 | ND | 0.845 | | |
| PCB-90/101 | 1.40 | | | J | PCB-137 | ND | 0.582 | | |
| PCB-93 | ND | 1.45 | | | PCB-138/163/164 | ND | | 1.16 | |
| PCB-94 | ND | 1.46 | | | PCB-139/149 | 0.660 | | | J |
| PCB-95/98/102 | ND | | 1.38 | | PCB-140 | ND | 1.20 | | |
| PCB-96 | ND | 1.17 | | | PCB-141 | ND | 0.597 | | |
| PCB-97 | ND | 1.27 | | | PCB-144 | ND | 1.08 | | |
| PCB-99 | 1.01 | | | J | PCB-145 | ND | 0.874 | | |
| PCB-100 | ND | 1.31 | | | PCB-146/165 | ND | 0.564 | | |
| PCB-103 | ND | 1.32 | | | PCB-147 | ND | 1.24 | | |
| PCB-104 | ND | 1.03 | | | PCB-148 | ND | 1.22 | | |
| PCB-105 | 0.416 | | | J | PCB-150 | ND | 0.871 | | |
| PCB-106/118 | 1.04 | | | J | PCB-151 | ND | 1.17 | | |
| PCB-107/109 | ND | 0.941 | | | PCB-152 | ND | 0.840 | | |
| PCB-108/112 | ND | 1.16 | | | PCB-153 | ND | 0.442 | | |
| PCB-110 | 1.35 | | | J | PCB-154 | ND | 1.10 | | |
| PCB-111/115 | ND | 0.901 | | | PCB-155 | ND | 0.796 | | |
| PCB-113 | ND | 1.04 | | | PCB-156 | ND | 0.436 | | |
| PCB-114 | ND | 0.758 | | | PCB-157 | ND | 0.454 | | |
| PCB-119 | ND | 0.890 | | | PCB-158/160 | ND | 0.470 | | |
| PCB-120 | ND | 0.872 | | | PCB-159 | ND | 0.450 | | |
| PCB-121 | ND | 0.993 | | | PCB-166 | ND | 0.482 | | |
| PCB-122 | ND | 0.858 | | | PCB-167 | ND | 0.446 | | |
| PCB-123 | ND | 0.935 | | | PCB-168 | ND | 0.437 | | |
| PCB-124 | ND | 0.970 | | | PCB-169 | ND | 0.485 | | |
| PCB-126 | ND | 0.790 | | | PCB-170 | ND | 0.497 | | |
| PCB-127 | ND | 0.806 | | | PCB-171 | ND | 0.500 | | |
| PCB-128/162 | ND | 0.545 | | | PCB-172 | ND | 0.546 | | |
| PCB-129 | ND | 0.685 | | | PCB-173 | ND | 0.614 | | |
| PCB-130 | ND | 0.689 | | | PCB-174 | ND | 0.559 | | |
| PCB-131 | ND | 0.681 | | | PCB-175 | ND | 0.536 | | |
| PCB-132/161 | ND | 0.540 | | | PCB-176 | ND | 0.387 | | |
| PCB-133/142 | ND | 0.702 | | | PCB-177 | ND | 0.582 | | |
| PCB-134/143 | ND | 0.676 | | | PCB-178 | ND | 0.503 | | |
| PCB-135 | ND | 1.21 | | | PCB-179 | ND | 0.415 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

| Sample ID: Field Blank | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|-----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700290-07 | | Date Received: 03-Mar-2017 10:19 | | |
| Project: Stiller Pond | | | Sample Size: 1.00 L | | QC Batch: B7C0079 | | Date Extracted: 15-Mar-2017 10:04 | | |
| Date Collected: 02-Mar-2017 9:45 | | | | | Date Analyzed: 22-Mar-17 11:39 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-180 | ND | 0.510 | | | Total octaCB | ND | | 0.550 | |
| PCB-181 | ND | 0.518 | | | Total nonaCB | 0.822 | | | |
| PCB-182/187 | ND | 0.486 | | | DecaCB | 1.13 | | | |
| PCB-183 | ND | 0.439 | | | Total PCB | 485 | | | |
| PCB-184 | ND | 0.419 | | | | | | | |
| PCB-185 | ND | 0.530 | | | | | | | |
| PCB-186 | ND | 0.386 | | | | | | | |
| PCB-188 | ND | 0.378 | | | | | | | |
| PCB-189 | ND | 0.356 | | | | | | | |
| PCB-190 | ND | 0.368 | | | | | | | |
| PCB-191 | ND | 0.401 | | | | | | | |
| PCB-192 | ND | 0.418 | | | | | | | |
| PCB-193 | ND | 0.404 | | | | | | | |
| PCB-194 | ND | | 0.550 | | | | | | |
| PCB-195 | ND | 0.528 | | | | | | | |
| PCB-196/203 | ND | 0.987 | | | | | | | |
| PCB-197 | ND | 0.710 | | | | | | | |
| PCB-198 | ND | 1.07 | | | | | | | |
| PCB-199 | ND | 1.08 | | | | | | | |
| PCB-200 | ND | 0.773 | | | | | | | |
| PCB-201 | ND | 0.743 | | | | | | | |
| PCB-202 | ND | 0.796 | | | | | | | |
| PCB-204 | ND | 0.788 | | | | | | | |
| PCB-205 | ND | 0.359 | | | | | | | |
| PCB-206 | 0.554 | | | J | | | | | |
| PCB-207 | ND | 0.249 | | | | | | | |
| PCB-208 | 0.268 | | | J | | | | | |
| PCB-209 | 1.13 | | | J | | | | | |
| Total monoCB | 84.1 | | | | | | | | |
| Total diCB | 242 | | | | | | | | |
| Total triCB | 131 | | | | | | | | |
| Total tetraCB | 20.7 | | 26.4 | | | | | | |
| Total pentaCB | 5.22 | | 7.26 | | | | | | |
| Total hexaCB | 0.660 | | 1.82 | | | | | | |
| Total heptaCB | ND | 0.614 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: Field Blank

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|-------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700290-07 |
| Project: | Stiller Pond | Sample Size: | 1.00 L | Date Received: | 03-Mar-2017 10:19 |
| Date Collected: | 02-Mar-2017 9:45 | | | QC Batch: | B7C0079 |
| | | | | Date Analyzed: | 22-Mar-17 11:39 |
| | | | | Column: | ZB-1 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 40.3 | 5 -145 | | 13C-PCB-170 | 91.2 | 10 -145 | |
| 13C-PCB-3 | 45.3 | 5 -145 | | 13C-PCB-180 | 91.8 | 10 -145 | |
| 13C-PCB-4 | 60.0 | 5 -145 | | 13C-PCB-188 | 87.1 | 10 -145 | |
| 13C-PCB-11 | 79.4 | 5 -145 | | 13C-PCB-189 | 90.7 | 10 -145 | |
| 13C-PCB-9 | 64.5 | 5 -145 | | 13C-PCB-194 | 114 | 10 -145 | |
| 13C-PCB-19 | 57.4 | 5 -145 | | 13C-PCB-202 | 72.3 | 10 -145 | |
| 13C-PCB-28 | 72.8 | 5 -145 | | 13C-PCB-206 | 121 | 10 -145 | |
| 13C-PCB-32 | 66.1 | 5 -145 | | 13C-PCB-208 | 137 | 10 -145 | |
| 13C-PCB-37 | 94.5 | 5 -145 | | 13C-PCB-209 | 112 | 10 -145 | |
| 13C-PCB-47 | 84.8 | 5 -145 | | CRS 13C-PCB-79 | 95.1 | 10 -145 | |
| 13C-PCB-52 | 84.2 | 5 -145 | | 13C-PCB-178 | 84.8 | 10 -145 | |
| 13C-PCB-54 | 70.1 | 5 -145 | | | | | |
| 13C-PCB-70 | 98.9 | 5 -145 | | | | | |
| 13C-PCB-77 | 105 | 10 -145 | | | | | |
| 13C-PCB-80 | 99.3 | 10 -145 | | | | | |
| 13C-PCB-81 | 100 | 10 -145 | | | | | |
| 13C-PCB-95 | 95.4 | 10 -145 | | | | | |
| 13C-PCB-97 | 103 | 10 -145 | | | | | |
| 13C-PCB-101 | 101 | 10 -145 | | | | | |
| 13C-PCB-104 | 87.9 | 10 -145 | | | | | |
| 13C-PCB-105 | 103 | 10 -145 | | | | | |
| 13C-PCB-114 | 107 | 10 -145 | | | | | |
| 13C-PCB-118 | 107 | 10 -145 | | | | | |
| 13C-PCB-123 | 107 | 10 -145 | | | | | |
| 13C-PCB-126 | 102 | 10 -145 | | | | | |
| 13C-PCB-127 | 100 | 10 -145 | | | | | |
| 13C-PCB-138 | 103 | 10 -145 | | | | | |
| 13C-PCB-141 | 103 | 10 -145 | | | | | |
| 13C-PCB-153 | 106 | 10 -145 | | | | | |
| 13C-PCB-155 | 90.2 | 10 -145 | | | | | |
| 13C-PCB-156 | 107 | 10 -145 | | | | | |
| 13C-PCB-157 | 103 | 10 -145 | | | | | |
| 13C-PCB-159 | 104 | 10 -145 | | | | | |
| 13C-PCB-167 | 104 | 10 -145 | | | | | |
| 13C-PCB-169 | 102 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

DATA QUALIFIERS & ABBREVIATIONS

| | |
|--------------|--|
| B | This compound was also detected in the method blank. |
| D | Dilution |
| E | The associated compound concentration exceeded the calibration range of the instrument. |
| H | Recovery and/or RPD was outside laboratory acceptance limits. |
| I | Chemical Interference |
| J | The amount detected is below the Reporting Limit/LOQ. |
| M | Estimated Maximum Possible Concentration. (CA Region 2 projects only) |
| * | See Cover Letter |
| Conc. | Concentration |
| NA | Not applicable |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| California Department of Health – ELAP | 2892 |
| DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005 | 3091.01 |
| Florida Department of Health | E87777 |
| Hawaii Department of Health | N/A |
| Louisiana Department of Environmental Quality | 01977 |
| Maine Department of Health | 2014022 |
| Nevada Division of Environmental Protection | CA004132015-1 |
| New Jersey Department of Environmental Protection | CA003 |
| New York Department of Health | 11411 |
| Oregon Laboratory Accreditation Program | 4042-004 |
| Pennsylvania Department of Environmental Protection | 012 |
| South Carolina Department of Health | 87002001 |
| Texas Commission on Environmental Quality | T104704189-15-6 |
| Virginia Department of General Services | 7923 |
| Washington Department of Ecology | C584 |
| Wisconsin Department of Natural Resources | 998036160 |

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request

NELAP Accredited Test Methods

| MATRIX: Air | |
|--|--------|
| Description of Test | Method |
| Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans | EPA 23 |

| MATRIX: Biological Tissue | |
|---|----------------|
| Description of Test | Method |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

| MATRIX: Drinking Water | |
|--|----------|
| Description of Test | Method |
| 2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS | EPA 1613 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |

| MATRIX: Non-Potable Water | |
|---|----------------|
| Description of Test | Method |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Dioxin by GC/HRMS | EPA 613 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

| MATRIX: Solids | |
|---|-----------|
| Description of Test | Method |
| Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613 |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope | EPA 1613B |

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| | |
|---|----------------|
| Dilution GC/HRMS | |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |



CHAIN OF CUSTODY

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

FOR LABORATORY USE ONLY

Storage Secured

Laboratory Project ID: 1700290

Yes No

Storage ID WR-2 C6

Temp 0.5 °C

TAT: (Check One): 2.9°C

Standard: 21 Days

Rush (surcharge may apply):

14 days 7 days Specify: _____

Project I.D.: STILLER POND P.O.# _____

Sampler: S. PATTEN / T. PATTEN
(Name)

Invoice to: Name CHARIS STREETS Company WWBWC Address 910 S. MAIN City MELTON-FREEMAN State OR Zip 97562 Ph# 541-938-2170 Fax# _____

Relinquished by: (Signature and Printed Name) STEVEN PATTEN Date: 3-2-17 Time: 12:00 Received by: (Signature and Printed Name) UPS Date: 3-2-17 Time: 12:00

Relinquished by: (Signature and Printed Name) UPS Date: _____ Time: _____ Received by: (Signature and Printed Name) Sydney Roughton Date: 3/3/17 Time: 1031

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Vista Analytical Laboratory
1104 Windfield Way
El Dorado Hills, CA 95762
(916) 673-1520 • Fax (916) 673-0106

Method of Shipment: _____

Add Analysis(es) Requested

ATTN: _____

Tracking No.: _____

Container(s)

Quantity Type Matrix

2378-TCDD
2378-TCDD/TCDF
PCDD/PCDF
2378-TCDD
2378-TCDD/TCDF
PCDD/PCDF
2378-TCDD
2378-TCDD/TCDF
PCDD/PCDF
TOTALS
COPLANAR PCB'S
209 CONGENERS
PBDE
PAH
WHO-29
EPA1613
EPA8290
EPA8280
EPA1668
EPA1614
CARB429

| Sample ID | Date | Time | Location/Sample Description | Quantity | Type | Matrix | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | TOTALS | COPLANAR PCB'S | 209 CONGENERS | PBDE | PAH | WHO-29 | | |
|---------------------|--------|-------|-----------------------------|----------|------|--------|-----------|----------------|-----------|-----------|----------------|-----------|-----------|----------------|-----------|--------|----------------|---------------|------|-----|--------|---|---|
| GW-136 | 3-2-17 | 10:45 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | X | |
| GW-145 | 3-2-17 | 11:05 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | X |
| GW-146 | 3-2-17 | 6:25 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | X |
| GW-147 | 3-2-17 | 9:45 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | X |
| SOURCE | 3-2-17 | 10:05 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | X |
| FIELD RP-147 | 3-2-17 | 9:45 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | X |
| FIELD BLANK | 3-2-17 | 9:45 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | X |
| MATRIX SPOKE-147 | 3-2-17 | 9:45 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | X |
| MATRIX SPOKE RP-147 | 3-2-17 | 9:45 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | X |

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: STEVEN PATTEN
Company: WWBWC
Address: 910 S. MAIN
City: MELTON-FREEMAN State: OR Zip: 97562
Phone: 541-938-2170 Fax: _____
Email: steven.patten@wwbwc.org

Container Types: A = 1 Liter Amber, G = Glass Jar
P = PUF, T = MMS Train, O = Other _____

*Bottle Preservative Type: T = Thiosulfate,
O = Other _____

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper,
SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum
AQ = Aqueous, O = Other _____



CHAIN OF CUSTODY

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

FOR LABORATORY USE ONLY
 Storage Secured
 Laboratory Project ID: 1700290 Yes No
 Storage ID: WR-2 C6 Temp: 0.5 °C

Project I.D.: STILLER POND P.O.# _____ Sampler: STEVEN PATTEN / TRACY PATTEN
 (Name)

TAT: (Check One): 2.9c
 Standard: 21 Days
 Rush (surcharge may apply):
 14 days 7 days Specify: _____

Invoice to: Name CHRIS STREETS Company WLBWC Address 810 S. MADU ST City MADON-FREELAND State OR Zip 97862 Ph# 541-938-2170 Fax# _____
 Relinquished by: (Signature and Printed Name) STEVEN PATTEN Date: 3-2-17 Time: 12:00 Received by: (Signature and Printed Name) UPS Date: 3-2-17 Time: 12:00
 Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) Judith Boylan Date: 3/3/17 Time: 1028

See "Sample Log-in Checklist" for additional sample information

SHIP TO: Vista Analytical Laboratory
 1104 Windfield Way
 El Dorado Hills, CA 95762
 (916) 673-1520 • Fax (916) 673-0106

ATTN: _____

Method of Shipment: _____
 Tracking No.: _____

| Sample ID | Date | Time | Location/Sample Description | Container(s) | | Add Analysis(es) Requested | | | | | | | | | | | | | | | | | |
|-----------------------------|---------------|--------------|-----------------------------|--------------|----------|----------------------------|-----------|----------------|-----------|-----------|----------------|-----------|-----------|----------------|-----------|--------|----------------|---------------|------|-----|--------|--|----------|
| | | | | Quantity | Type | Matrix | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | TOTALS | COPLANAR PCB'S | 209 CONGENERS | PBDE | PAH | WHO-29 | | |
| <u>GW-136</u> | <u>3-2-17</u> | <u>10:45</u> | <u>STILLER POND</u> | <u>2L</u> | <u>A</u> | <u>AQ</u> | | | | | | | | | | | | | | | | | <u>X</u> |
| <u>GW-145</u> | <u>3-2-17</u> | <u>11:05</u> | <u>STILLER POND</u> | <u>2L</u> | <u>A</u> | <u>AQ</u> | | | | | | | | | | | | | | | | | <u>X</u> |
| <u>GW-146</u> | <u>3-2-17</u> | <u>10:25</u> | <u>STILLER POND</u> | <u>2L</u> | <u>A</u> | <u>AQ</u> | | | | | | | | | | | | | | | | | <u>X</u> |
| <u>GW-147</u> | <u>3-2-17</u> | <u>9:45</u> | <u>STILLER POND</u> | <u>2L</u> | <u>A</u> | <u>AQ</u> | | | | | | | | | | | | | | | | | <u>X</u> |
| <u>SOURCE</u> | <u>3-2-17</u> | <u>10:05</u> | <u>STILLER POND</u> | <u>2L</u> | <u>A</u> | <u>AQ</u> | | | | | | | | | | | | | | | | | <u>X</u> |
| <u>FIELD DUP-147</u> | <u>3-2-17</u> | <u>9:45</u> | <u>STILLER POND</u> | <u>2L</u> | <u>A</u> | <u>AQ</u> | | | | | | | | | | | | | | | | | <u>X</u> |
| <u>FIELD BLANK</u> | <u>3-2-17</u> | <u>7:45</u> | <u>STILLER POND</u> | <u>2L</u> | <u>A</u> | <u>AQ</u> | | | | | | | | | | | | | | | | | <u>X</u> |
| <u>MATRIX SPIKE-147</u> | <u>3-2-17</u> | <u>9:45</u> | <u>STILLER POND</u> | <u>2L</u> | <u>A</u> | <u>AQ</u> | | | | | | | | | | | | | | | | | <u>X</u> |
| <u>MATRIX SPIKE DUP-147</u> | <u>3-2-17</u> | <u>9:45</u> | <u>STILLER POND</u> | <u>2L</u> | <u>A</u> | <u>AQ</u> | | | | | | | | | | | | | | | | | <u>X</u> |

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: STEVEN PATTEN
 Company: WLBWC
 Address: 810 S. MADU
 City: MADON-FREELAND State: OR Zip: 97862
 Phone: 541-938-2170 Fax: SAME
 Email: STEVEN.PATTEN@WLBWC.ORG

Container Types: A = 1 Liter Amber, G = Glass Jar
 P = PUF, T = MMS Train, O = Other _____
 *Bottle Preservative Type: T = Thiosulfate, O = Other _____

Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper,
 SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum
 AQ = Aqueous, O = Other

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700290 TAT 21

| | | | | | | |
|------------------|--------------------------|---|-----------------------------|-----------------|----------------|-------|
| Samples Arrival: | Date/Time 3/3/17 1019 | | Initials: SR | Location: WR-2 | | |
| | | | | Shelf/Rack: N/A | | |
| Logged In: | Date/Time 3/3/17 1307 | | Initials: BSB SR | Location: WR-2 | | |
| | | | | Shelf/Rack: C6 | | |
| Delivered By: | FedEx | <u>UPS</u> | On Trac | DHL | Hand Delivered | Other |
| Preservation: | <u>Ice</u> | Blue Ice | Dry Ice | None | | |
| Temp °C: | 1.2 (uncorrected) | Time: 1024 | Thermometer ID: <u>DT-3</u> | | | |
| Temp °C: | 0.5 (corrected) | Probe used: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | | | |

| | YES | NO | NA |
|--|---|-------------------------------------|-------------------------------------|
| Adequate Sample Volume Received? | <input checked="" type="checkbox"/> | | |
| Holding Time Acceptable? | <input checked="" type="checkbox"/> | | |
| Shipping Container(s) Intact? | <input checked="" type="checkbox"/> | | |
| Shipping Custody Seals Intact? | <input checked="" type="checkbox"/> | | |
| Shipping Documentation Present? | <input checked="" type="checkbox"/> | | |
| Airbill | Trk # <u>1262E3F70134213767</u> | <input checked="" type="checkbox"/> | |
| Sample Container Intact? | <input checked="" type="checkbox"/> | | |
| Sample Custody Seals Intact? | | | <input checked="" type="checkbox"/> |
| Chain of Custody / Sample Documentation Present? | <input checked="" type="checkbox"/> | | |
| COC Anomaly/Sample Acceptance Form completed? | | <input checked="" type="checkbox"/> | |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | <input checked="" type="checkbox"/> |
| Preservation Documented: | Na ₂ S ₂ O ₃ | Trizma | Yes No <u>NA</u> |
| Shipping Container | Vista | <u>Client</u> | Retain <u>Return</u> Dispose |

Comments: sample label ID:
 Field Blank A/B containers
 Field Dup -147
 GW -147
 Source
 GW-146
 GW -136 1 Liter each
 GW-145

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700 290 TAT 21

| | | | |
|-----------------------------------|--|-----------------------------|---|
| Samples Arrival: | Date/Time <u>3/3/17 1019</u> | Initials: <u>SR</u> | Location: <u>WR-2</u> Shelf/Rack: <u>N/A</u> |
| Logged In: | Date/Time <u>3/3/17 1307</u> | Initials: <u>SR URSB</u> | Location: <u>WR-2</u> Shelf/Rack: <u>C6</u> |
| Delivered By: | FedEx <input type="checkbox"/> <u>UPS</u> <input checked="" type="checkbox"/> On Trac <input type="checkbox"/> DHL <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Other <input type="checkbox"/> | | |
| Preservation: | <u>Ice</u> <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> | | |
| Temp °C: <u>3.6</u> (uncorrected) | Time: <u>1032</u> | Thermometer ID: <u>DT-3</u> | |
| Temp °C: <u>2.9</u> (corrected) | Probe used: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |

| | YES | NO | NA |
|--|--|-------------------------------------|--|
| Adequate Sample Volume Received? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holding Time Acceptable? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Container(s) Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Custody Seals Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Documentation Present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Airbill | Trk # <u>1Z 62E 3F7 01 0088 1831</u> | | |
| Sample Container Intact? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample Custody Seals Intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Chain of Custody / Sample Documentation Present? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC Anomaly/Sample Acceptance Form completed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Preservation Documented: | <input type="checkbox"/> Na ₂ S ₂ O ₃ | <input type="checkbox"/> Trizma | <input checked="" type="checkbox"/> NA |
| Shipping Container | <u>Vista</u> <input checked="" type="checkbox"/> | Client <input type="checkbox"/> | <u>Retain</u> <input checked="" type="checkbox"/> Return <input type="checkbox"/> Dispose <input type="checkbox"/> |

Comments: Sample Label ID:
GW-145 1 Liter each
GW-136 ↓
Matrix Spike - 147 A/B
Matrix Spike Dup 147 ↓



| | | | | |
|----------------|----------------------------|--------------------------|-----------------------|-----------------------------|
| Burlington, WA | Corporate Laboratory (a) | 1620 S Walnut St | Burlington, WA 98233 | 800.755.9295 • 360.757.1400 |
| Bellingham, WA | Microbiology (b) | 805 Orchard Dr Ste 4 | Bellingham, WA 98225 | 360.715.1212 |
| Portland, OR | Microbiology/Chemistry (c) | 9150 SW Pioneer Ct Ste W | Wilsonville, OR 97070 | 503.682.7802 |
| Corvallis, OR | Microbiology (d) | 540 SW Third Street | Corvallis, OR 97333 | 541.753.4946 |

May 9, 2017

Page 1 of 1

Mr. Steve Patten
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

RE: 17-09337 - Stiller Pond 2nd Event 2017

Dear Mr. Steve Patten,

Your project: Stiller Pond 2nd Event 2017, was received on Wednesday April 26, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

A handwritten signature in blue ink that reads "Pat Miller". The signature is fluid and cursive.

Patrick Miller, MS
QA Officer

Enclosures: Data Report
QC Reports
Chain of Custody



Data Report

Client Name: Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862


Reference Number: **17-09337**
Project: Stiller Pond 2nd Event 2017

Report Date: 5/9/17

Date Received: 4/26/17

Approved by: anp,bj,rmw

Authorized by:


Patrick Miller, MS
QA Officer

| Sample Description: Intake Stiller Pond | | | | | | | | | | Sample Date: 4/25/17 10:40 am | | |
|---|------------------------------|-----------------|-------|--------|-------|-----|--------------------------|-----|------------------------|-------------------------------|---------------|---------|
| Lab Number: 22048 | | Sample Comment: | | | | | | | Collected By: S Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |
| 7439-89-6 | IRON | 0.16 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 5/2/17 | ANP | 200.7_170502C | |
| 14797-55-8 | NITRATE-N | 0.5 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 4/27/17 | BJ | I170426A | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 83 | 10 | | mg/L | 1.0 | SM2540 C | a | 4/27/17 | LRS | TDS_170427 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.30 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 4/26/17 | ANP | OPHOS_170426 | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.097 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 5/3/17 | RMW | tphos_170503 | |

| Sample Description: GW-136 Stiller Pond | | | | | | | | | | Sample Date: 4/25/17 11:40 am | | |
|---|------------------------------|-----------------|-------|--------|-------|-----|--------------------------|-----|------------------------|-------------------------------|---------------|---------|
| Lab Number: 22049 | | Sample Comment: | | | | | | | Collected By: S Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |
| 7439-89-6 | IRON | ND | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 5/2/17 | ANP | 200.7_170502C | |
| 14797-55-8 | NITRATE-N | 0.51 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 4/27/17 | BJ | I170426A | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 147 | 10 | | mg/L | 1.0 | SM2540 C | a | 4/27/17 | LRS | TDS_170427 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.43 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 4/26/17 | ANP | OPHOS_170426 | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.292 | 0.020 | 0.0052 | mg/L | 2.0 | SM4500-P F/SM4500-P B(5) | a | 5/3/17 | RMW | tphos_170503 | |

| Sample Description: GW-145 Stiller Pond | | | | | | | | | | Sample Date: 4/25/17 12:00 pm | | |
|---|------------------------------|-----------------|-------|--------|-------|-----|--------------------------|-----|------------------------|-------------------------------|---------------|---------|
| Lab Number: 22050 | | Sample Comment: | | | | | | | Collected By: S Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |
| 7439-89-6 | IRON | 0.06 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 5/2/17 | ANP | 200.7_170502C | |
| 14797-55-8 | NITRATE-N | 2.69 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 4/27/17 | BJ | I170426A | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 241 | 10 | | mg/L | 1.0 | SM2540 C | a | 4/27/17 | LRS | TDS_170427 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.45 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 4/26/17 | ANP | OPHOS_170426 | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.196 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 5/3/17 | RMW | tphos_170503 | |

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor



Data Report

| Sample Description: GW-146 Stiller Pond | | | | | | | | | | Sample Date: 4/25/17 11:15 am | | | | | |
|---|------------------------------|--------|-------|--------|-------|-----|--------------------------|-----|----------|-------------------------------|---------------|---------|------------------------|--|--|
| Lab Number: 22051 | | | | | | | | | | Sample Comment: | | | Collected By: S Patten | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment | | | |
| 7439-89-6 | IRON | 0.07 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 5/2/17 | ANP | 200.7_170502C | | | | |
| 14797-55-8 | NITRATE-N | 4.52 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 4/27/17 | BJ | I170426A | | | | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 296 | 10 | | mg/L | 1.0 | SM2540 C | a | 4/27/17 | LRS | TDS_170427 | | | | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.44 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 4/26/17 | ANP | OPHOS_170426 | | | | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.109 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 5/3/17 | RMW | tphos_170503 | | | | |

| Sample Description: GW-147 Stiller Pond | | | | | | | | | | Sample Date: 4/25/17 10:25 am | | | | | |
|---|------------------------------|--------|-------|--------|-------|-----|--------------------------|-----|----------|-------------------------------|---------------|---------|------------------------|--|--|
| Lab Number: 22052 | | | | | | | | | | Sample Comment: | | | Collected By: S Patten | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment | | | |
| 7439-89-6 | IRON | ND | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 5/2/17 | ANP | 200.7_170502C | | | | |
| 14797-55-8 | NITRATE-N | 4.49 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 4/27/17 | BJ | I170426A | | | | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 258 | 10 | | mg/L | 1.0 | SM2540 C | a | 4/27/17 | LRS | TDS_170427 | | | | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.50 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 4/26/17 | ANP | OPHOS_170426 | | | | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.160 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 5/3/17 | RMW | tphos_170503 | | | | |

| Sample Description: GW-146 Dup Stiller Pond | | | | | | | | | | Sample Date: 4/25/17 11:15 am | | | | | |
|---|------------------------------|--------|-------|--------|-------|-----|--------------------------|-----|----------|-------------------------------|---------------|---------|------------------------|--|--|
| Lab Number: 22053 | | | | | | | | | | Sample Comment: | | | Collected By: S Patten | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment | | | |
| 7439-89-6 | IRON | ND | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 5/2/17 | ANP | 200.7_170502C | | | | |
| 14797-55-8 | NITRATE-N | 4.5 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 4/27/17 | BJ | I170426A | | | | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 297 | 10 | | mg/L | 1.0 | SM2540 C | a | 4/27/17 | LRS | TDS_170427 | | | | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.43 | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 4/26/17 | ANP | OPHOS_170426 | | | | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.112 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 5/3/17 | RMW | tphos_170503 | | | | |

| Sample Description: Trip Blank Lab | | | | | | | | | | Sample Date: 4/18/17 8:30 am | | | | | |
|------------------------------------|------------------------------|--------|-------|--------|-------|-----|--------------------------|-----|----------|------------------------------|---------------|---------|------------------------|--|--|
| Lab Number: 22054 | | | | | | | | | | Sample Comment: | | | Collected By: S Patten | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment | | | |
| 7439-89-6 | IRON | ND | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 5/2/17 | ANP | 200.7_170502C | | | | |
| 14797-55-8 | NITRATE-N | ND | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 4/27/17 | BJ | I170426A | | | | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | ND H1 | 10 | | mg/L | 1.0 | SM2540 C | a | 4/27/17 | LRS | TDS_170427 | | | | |
| 14265-44-2 | ORTHO-PHOSPHATE | ND | 0.005 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 4/26/17 | ANP | OPHOS_170426 | | | | |
| 7723-14-0 | TOTAL PHOSPHORUS | ND | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 5/5/17 | RMW | TPHOS_170505 | | | | |

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Calibration Check

Reference Number: **17-09337**

Report Date: 05/09/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|--------------------|--------|------------|-------|------------|------------|---------|--------------|---------|---------|
| 200.7_170502C | 2 IRON | 1.02 | 1 | mg/L | 200.7 | 102 | 90-110 | CAL | | |
| I170426A | 0 NITRATE-N | 0.99 | 1 | mg/L | 300.0 | 99 | 90-110 | CAL | | |
| OPHOS_170426 | 0 ORTHO-PHOSPHATE | 1.07 | 1.00 | mg/L | SM4500-P F | 107 | 85-115 | CAL | | |
| tphos_170503 | 0 TOTAL PHOSPHORUS | 0.102 | 0.100 | mg/L | SM4500-P F | 102 | 85-115 | CAL | | |
| tphos_170505 | 0 TOTAL PHOSPHORUS | 0.098 | 0.100 | mg/L | SM4500-P F | 98 | 85-115 | CAL | | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Laboratory Fortified Blank

Reference Number: **17-09337**

Report Date: 05/09/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|---------|--------|------------|-------|--------|------------|---------|--------------|---------|---------|
| 200.7_170502C | o IRON | 0.55 | 0.5 | mg/L | 200.7 | 110 | 85-115 | LFB | | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: **17-09337**

Report Date: 05/09/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|--------------------|--------|------------|-------|------------|------------|---------|--------------|---------|---------|
| 200.7_170502C | 0 IRON | ND | | mg/L | 200.7 | | 0-0 | | LRB | |
| 1170426A | 0 NITRATE-N | ND | | mg/L | 300.0 | | 0-0 | | LRB | |
| OPHOS_170426 | 0 ORTHO-PHOSPHATE | ND | | mg/L | SM4500-P F | | 0-0 | | LRB | |
| tphos_170503 | 0 TOTAL PHOSPHORUS | ND | | mg/L | SM4500-P F | | 0-0 | | LRB | |
| tphos_170505 | 0 TOTAL PHOSPHORUS | ND | | mg/L | SM4500-P F | | 0-0 | | LRB | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT
QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-09337**

Report Date: 05/09/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|--------------------------------|--------|------------|-------|------------|------------|---------|--------------|---------|---------|
| 200.7_170502C | 0 IRON | ND | | mg/L | 200.7 | | 0-0 | | MB | |
| OPHOS_170426 | 0 ORTHO-PHOSPHATE | ND | | mg/L | SM4500-P F | | 0-0 | | MB | |
| TDS_170427 | 0 TOTAL DISSOLVED SOLIDS (TDS) | ND | | mg/L | SM2540 C | | 0-3 | | MB | |
| tphos_170503 | 0 TOTAL PHOSPHORUS | ND | | mg/L | SM4500-P F | | 0-0 | | MB | |
| tphos_170505 | 0 TOTAL PHOSPHORUS | ND | | mg/L | SM4500-P F | | 0-0 | | MB | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-09337**

Report Date: 05/09/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|--------------------------------|--------|------------|-------|------------|------------|---------|--------------|---------|---------|
| 200.7_170502C | 0 IRON | 1.98 | 2 | mg/L | 200.7 | 99 | 95-105 | | QCS | |
| I170426A | 0 NITRATE-N | 6.03 | 6 | mg/L | 300.0 | 101 | 90-110 | | QCS | |
| OPHOS_170426 | 0 ORTHO-PHOSPHATE | 0.49 | 0.49 | mg/L | SM4500-P F | 100 | 90-110 | | QCS | |
| TDS_170427 | 0 TOTAL DISSOLVED SOLIDS (TDS) | 504 | 500 | mg/L | SM2540 C | 101 | 80-120 | | QCS | |
| tphos_170503 | 0 TOTAL PHOSPHORUS | 0.0852 | 0.0832 | mg/L | SM4500-P F | 102 | 90-110 | | QCS | |
| tphos_170505 | 0 TOTAL PHOSPHORUS | 0.080 | 0.0832 | mg/L | SM4500-P F | 96 | 90-110 | | QCS | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

| Batch | Sample | Analyte | Result | Duplicate | | Units | %RPD | Limits | QC | |
|----------------------|--------|------------------------------|--------|-----------|--|-------|------|--------|-----------|------|
| | | | | Result | | | | | Qualifier | Type |
| Duplicate | | | | | | | | | | |
| 200.7_170502C | | | | | | | | | | |
| | 22017 | IRON | ND | ND | | mg/L | NA | 0-20 | | DUP |
| | 22178 | IRON | 0.38 | 0.38 | | mg/L | 0.0 | 0-20 | | DUP |
| | 22195 | IRON | 0.05 | 0.04 | | mg/L | 22.2 | 0-20 | INH | DUP |
| I170426A | | | | | | | | | | |
| | 21739 | NITRATE-N | 2.62 | 2.62 | | mg/L | 0.0 | 0-20 | | DUP |
| | 21874 | NITRATE-N | 0.12 | 0.14 | | mg/L | 15.4 | 0-20 | | DUP |
| | 22022 | NITRATE-N | 0.41 | 0.41 | | mg/L | 0.0 | 0-20 | | DUP |
| OPHOS_170426 | | | | | | | | | | |
| | 22048 | ORTHO-PHOSPHATE | 0.30 | 0.30 | | mg/L | 0.0 | 0-20 | | DUP |
| TDS_170427 | | | | | | | | | | |
| | 21874 | TOTAL DISSOLVED SOLIDS (TDS) | 123 | 122 | | mg/L | 0.8 | 0-10 | | DUP |
| | 22017 | TOTAL DISSOLVED SOLIDS (TDS) | 135 | 133 | | mg/L | 1.5 | 0-10 | | DUP |
| tphos_170503 | | | | | | | | | | |
| | 21486 | TOTAL PHOSPHORUS | 0.013 | 0.013 | | mg/L | 0.0 | 0-20 | | DUP |
| | 21495 | TOTAL PHOSPHORUS | 0.125 | 0.130 | | mg/L | 3.9 | 0-20 | | DUP |
| | 22510 | TOTAL PHOSPHORUS | 0.557 | 0.558 | | mg/L | 0.2 | 0-20 | | DUP |
| TPHOS_170505 | | | | | | | | | | |
| | 22054 | TOTAL PHOSPHORUS | ND | ND | | mg/L | NA | 0-20 | | DUP |
| | 22770 | TOTAL PHOSPHORUS | 0.053 | 0.053 | | mg/L | 0.0 | 0-20 | | DUP |
| | 22971 | TOTAL PHOSPHORUS | 0.065 | 0.063 | | mg/L | 3.1 | 0-20 | | DUP |

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

| Batch | Sample | Analyte | Result | Duplicate | | Spike Conc | Units | Percent Recovery | | Limits* | %RPD | Limits* | QC Qualifier | Type | Comments |
|---|--------|------------------|--------|--------------|--------------|------------|-------|------------------|-----|---------|-------|---------|--------------|------|----------|
| | | | | Spike Result | Spike Result | | | MS | MSD | | | | | | |
| Laboratory Fortified Matrix (MS) | | | | | | | | | | | | | | | |
| 200.7_170502C | | | | | | | | | | | | | | | |
| | 22017 | IRON | ND | 0.51 | 0.54 | 0.50 | mg/L | 102 | 108 | 70-130 | 5.7 | 0-20 | | LFM | |
| | 22178 | IRON | 0.38 | 0.82 | 0.91 | 0.50 | mg/L | 88 | 106 | 70-130 | 18.6 | 0-20 | | LFM | |
| | 22195 | IRON | 0.05 | 0.58 | 0.58 | 0.50 | mg/L | 106 | 106 | 70-130 | 0.0 | 0-20 | | LFM | |
| I170426A | | | | | | | | | | | | | | | |
| | 21739 | NITRATE-N | 2.62 | 3.56 | | 1 | mg/L | 94 | NA | 90-110 | NA | 0-20 | | LFM | |
| | 21874 | NITRATE-N | 0.12 | 1.12 | | 1 | mg/L | 100 | NA | 90-110 | NA | 0-20 | | LFM | |
| | 22022 | NITRATE-N | 0.41 | 1.37 | | 1 | mg/L | 96 | NA | 90-110 | NA | 0-20 | | LFM | |
| OPHOS_170426 | | | | | | | | | | | | | | | |
| | 22048 | ORTHO-PHOSPHATE | 0.30 | 1.21 | 1.20 | 1.00 | mg/L | 91 | 90 | 70-130 | 1.1 | 0-20 | | LFM | |
| tphos_170503 | | | | | | | | | | | | | | | |
| | 21486 | TOTAL PHOSPHORUS | 0.013 | 0.015 | 0.014 | 0.003 | mg/L | 67 | 33 | 70-130 | 66.7 | 0-20 | IS | LFM | |
| | 21495 | TOTAL PHOSPHORUS | 0.125 | 0.128 | 0.130 | 0.003 | mg/L | 100 | 167 | 70-130 | 50.0 | 0-20 | | LFM | |
| | 22510 | TOTAL PHOSPHORUS | 0.557 | 0.553 | 0.568 | 0.003 | mg/L | -133 | 367 | 70-130 | 428.6 | 0-20 | IS | LFM | |
| TPHOS_170505 | | | | | | | | | | | | | | | |
| | 22054 | TOTAL PHOSPHORUS | ND | 0.046 | 0.047 | 0.050 | mg/L | 92 | 94 | 70-130 | 2.2 | 0-20 | | LFM | |
| | 22770 | TOTAL PHOSPHORUS | 0.053 | 0.105 | 0.106 | 0.050 | mg/L | 104 | 106 | 70-130 | 1.9 | 0-20 | | LFM | |
| | 22971 | TOTAL PHOSPHORUS | 0.065 | 0.115 | 0.114 | 0.050 | mg/L | 100 | 98 | 70-130 | 2.0 | 0-20 | | LFM | |

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

17-09337
22048 - 22054



ANALYTICAL
Main Lab (800-755-9295)
1620 South Walnut St. Burlington, WA 98233
Microbiology (888-725-1212)
805 W. Orchard Dr. Suite 4 Bellingham, WA 98222
Willsonville Lab (503-682-7802)
9150 SW Pioneer Ct. Suite W Willsonville, OR 97138
Corvallis Lab (541-753-4946)
540 SW 3rd St. Corvallis, OR 97333

Report to: Walla Walla Basin Watershed Cour
Ship Address: 810 S Main Street
City: Milton-Freewe St. OR Zip: 97862
Attn: Steven Patten
Phone: 541.938-2170 FAX:
Email: steven.patten@mwbc.org
Project: Stiller Pond 2nd Event 2017

Bill to: Walla Walla Basin Watershed Council
Address: 810 South Main Street
City: Milton-Freewe St. OR Zip: 97862
Phone:
P.O.#:
 Visa M/C A/E Expires /
Card#:

Check Regulatory Program
 Safe Drinking Water Act
 Clean Water Act
 RCRA / CERCLA
 Other

Instructions

- Use one line per sample Location.
- Be specific in analysis requests.
- (NEW) List each metal individually. (NEW)**
- Check off analyses to be performed for each sample Location.
- Enter number of containers.

Turn Around Time Required
 Standard
 Half-time (50% surcharge)
 Quickest (100% surcharge) Phone Call Req.
 Emergency (Phone Call Req.)

Analyses Requested

| Field ID | Location | Grab/Comp. | Sample Matrix* | Date | Time | Fe (Field Dup) | Fe (Trip Blank) | TDS, NO3, o-PO4 | TDS, NO3, o-PO4 (Field Dup) | TDS, NO3, o-PO4 (Trip Blank) | Total P | Total P (Field Dup) | Number of Containers | Special Instructions Conditions on Receipt |
|----------|-------------|------------|----------------|---------|-------|-------------------------------------|-------------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--------------------------|----------------------|---|
| 1 | Innace | GRAS | SW | 4/28/17 | 10:40 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 2 | GLU-136 | GRAS | GW | 4/25/17 | 11:40 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 3 | GLU-145 | GRAS | GW | 4/25/17 | 12:00 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 4 | GLU-146 | GRAS | GW | 4/25/17 | 11:05 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 5 | GLU-147 | GRAS | GW | 4/25/17 | 10:15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 6 | GLU-146 DVE | GRAS | GW | 4/25/17 | 11:15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 7 | TRIP Blank | GRAS | SW | 4/28/17 | 8:30 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 8 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 9 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |
| 10 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | |

Sampled by: S. Patten Phone: 541-938-2170 FAX: SAME Email: steven.patten@mwbc.org

Sample Receipt Request (Must include FAX or Email) * W - water DW - drinking water SW - surface water GW - Ground water WW - waste water OL - oil

Relinquished by: [Signature] Date: 4/25/17 Time: 1:30 Received by: WPS Date: 4/26/17 Time: 1:30

Custody seals intact Yes No N/A
Sample temp 2.0 C satisfactory Yes No N/A
Samples received intact Yes No N/A
Chain of custody & labels agree Yes No N/A



CO032116

Chain of Custody / Analysis Request (Please complete all applicable shaded sections)

Report to: Walla Walla Basin Watershed Cour
 Ship Address: 810 S Main Street
 City: Milton-Freewe St. OR Zip: 97862
 Attn: Steven Patten
 Phone: 541.938-2170 FAX:
 Email: steven.patten@wwbwc.org
 Project: Stiller Pond 2nd Event 2017

Bill to: Walla Walla Basin Watershed Council
 Address: 810 South Main Street
 City: Milton-Freewe St. OR Zip: 97862
 Phone: FAX:
 P.O.#: Attn:
 Visa M/C A/E Expires /
 Card#:

For Lab Use Only
 Ref #
Check Regulatory Program
 Safe Drinking Water Act
 Clean Water Act
 RCRA / CERCLA
 Other



EDGE ANALYTICAL
 Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
 Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

Instructions

- Use one line per sample Location.
- Be specific in analysis requests.
- (NEW) List each metal individually (NEW)**
- Check off analyses to be performed for each sample Location.
- Enter number of containers.

Turn Around Time Required

Standard
 Half-time (50% surcharge)
 Quickest (100% surcharge) Phone Call Req.
 Emergency (Phone Call Req.)

Analyses Requested

| Field ID | Location | Grab/Comp. | Sample Matrix * | Date | Time | Fe | Fe (Field Dup) | Fe (Trip Blank) | TDS, NO3, o-PO4 | TDS, NO3, o-PO4 (Field Dup) | TDS, NO3, o-PO4 (Trip Blank) | Total P | Total P (Field Dup) | Number of Containers |
|----------|------------|------------|-----------------|---------|-------|-------------------------------------|--------------------------|-------------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|--------------------------|----------------------|
| 1 | INVOICE | | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 | BLU-136 | GAAS | GLV | 4/25/17 | 10:40 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 | BLU-145 | GAAS | GLV | 4/25/17 | 12:00 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 | BLU-146 | GAAS | GLV | 4/25/17 | 11:15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 | BLU-147 | GAAS | GLV | 4/25/17 | 10:25 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6 | BLU-146 DR | GAAS | GLV | 4/25/17 | 11:15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 7 | TRIP BLANK | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 8 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 9 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 10 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Sampled by: S. Patten Phone: 541-938-2170 FAX: SAME Email: steven.patten@wwbwc.org

Sample Receipt Request (Must include FAX or Email) * W - water SW - surface water WW - waste water OL - oil
 DW - drinking water GW - Ground water S - soil Other _____

Relinquished by: [Signature] Date: 4/25/17 Time: 1:30 Received by: [Signature] Date: 4/25/17 Time: 1:30

Special Instructions
 Conditions on Receipt

Yes No N/A



Chain of Custody / Analysis Request

(Please complete all applicable shaded sections)



EDGE ANALYTICAL
 Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 905 W. Orchard Dr. Suite 4 Bellingham, WA 98225
 Willsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Willsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

| | | | |
|---|---|--|--|
| Report to: Walla Walla Basin Watershed Cour | Bill to: Walla Walla Basin Watershed Council | Ref # | For Lab Use Only |
| Ship Address: 810 S Main Street | Address: 810 South Main Street | Check Regulatory Program | <input type="checkbox"/> Safe Drinking Water Act |
| City: Milton-Freewe St. OR zip: 97862 | City: Milton-Freewe St. OR Zip: 97862 | <input type="checkbox"/> Clean Water Act | <input type="checkbox"/> RCRA / CERCLA |
| Attn: Steven Patten | Phone: Steven Patten | <input type="checkbox"/> Other | |
| Phone: 541.938-2170 FAX: | P.O.#: | Expires | / |
| Email: steven.patten@wwbwc.org | <input type="checkbox"/> Visa <input type="checkbox"/> M/C <input type="checkbox"/> A/E | | |
| Project: Stiller Pond 2nd Event 2017 | Card#: | | |

Analyses Requested

Instructions

- Use one line per sample Location.
- Be specific in analysis requests.
- (NEW) List each metal individually (NEW)**
- Check off analyses to be performed for each sample Location.
- Enter number of containers.

Turn Around Time Required

Standard
 Half-time (50% surcharge)
 Quickest (100% surcharge) Phone Call Req.
 Emergency (Phone Call Req.)

| Field ID | Location | Grab/Comp | Sample Matrix* | Date | Time | Total P (Trip Blank) | Number of Containers | | | | | | | | | | Special Instructions | | | |
|------------------|-------------|-----------|----------------|---------|-------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| 1 | Trotter | PEAS | SW | 4/25/17 | 10:40 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2 | GLS-136 | PEAS | GLW | 4/25/17 | 11:40 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3 | GLS-145 | PEAS | GLW | 4/25/17 | 12:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4 | GLS-146 | PEAS | GLW | 4/25/17 | 11:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5 | GLS-147 | PEAS | GLW | 4/25/17 | 10:25 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6 | GLS-146 DUE | PEAS | GLW | 4/25/17 | 11:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 7 | TRE BLANK | PEAS | W | 4/18/17 | 8:30 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 8 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 9 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 10 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Total Containers | | | | | | | | | | | | | | | | | | | | |



CO032116

Special Instructions
Conditions on Receipt

Sampled by: SI Patten Phone: 541-938-2170 FAX: 541-938-2170 Email: steven.patten@wwbwc.org

* W - water DW - drinking water SW - surface water GW - Ground water WW - waste water OL - oil S - soil

Relinquished by: [Signature] Date: 4/25/17 Time: 1:30 Received by: UPS Date: 4/25/17 Time: 1:30

Sample Receipt Request (Must include FAX or Email) Custody seals intact Yes No N/A

Sample temp _____ C satisfactory Samples received intact Chain of custody & labels agree

Chain of Custody / Analysis Request

(Please complete all applicable shaded sections)

32116



ANALYTICAL
 Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98225
 Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97078
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

| | | | |
|---|--|--|--|
| Report to: Walla Walla Basin Watershed Cour | Bill to: Walla Walla Basin Watershed Council | Ref # | For Lab Use Only |
| Ship Address: 810 S Main Street | Address: 810 South Main Street | Check Regulatory Program | <input type="checkbox"/> Safe Drinking Water Act |
| City: Milton-Freewe St. OR Zip: 97862 | City: Milton-Freewe St. OR Zip: 97862 | <input type="checkbox"/> Clean Water Act | <input type="checkbox"/> RCRA / CERCLA |
| Attn: Steven Patten | Phone: | <input type="checkbox"/> Visa | <input type="checkbox"/> Other |
| Phone: 541.938-2170 FAX: | P.O.#: | <input type="checkbox"/> M/C | |
| Email: steven.patten@wwbwc.org | Attn: | <input type="checkbox"/> A/E | Expires / |
| Project: Stiller Pond 2nd Event 2017 | Card#: | | |

Instructions

- Use one line per sample Location.
- Be specific in analysis requests.
- (NEW) List each metal individually (NEW)
- Check off analyses to be performed for each sample Location.
- Enter number of containers.

Turn Around Time Required

Standard
 Half-time (50% surcharge)
 Quickest (100% surcharge) Phone Call Req.
 Emergency (Phone Call Req.)

Analyses Requested

| Field ID | Location | Grab/Comp. | Sample Matrix* | Date | Time | Total P (Trip Blank) | Number of Containers | Special Instructions Conditions on Receipt |
|----------|--------------|------------|----------------|---------|-------|-------------------------------------|----------------------|---|
| 1 | Intake | Reas | SV | 4/25/17 | 10:40 | <input type="checkbox"/> | | |
| 2 | GLJ-130 | Reas | GLJ | 4/25/17 | 11:40 | <input type="checkbox"/> | | |
| 3 | GLJ-145 | Reas | GLJ | 4/25/17 | 12:00 | <input type="checkbox"/> | | |
| 4 | GLJ-146 | Reas | GLJ | 4/25/17 | 11:15 | <input type="checkbox"/> | | |
| 5 | GLJ-147 | Reas | GLJ | 4/25/17 | 10:15 | <input type="checkbox"/> | | |
| 6 | Stiller Pond | Reas | GLJ | 4/25/17 | 11:15 | <input type="checkbox"/> | | |
| 7 | TRIP Blank | Reas | L | 4/25/17 | 8:30 | <input checked="" type="checkbox"/> | | |
| 8 | | | | | | <input type="checkbox"/> | | |
| 9 | | | | | | <input type="checkbox"/> | | |
| 10 | | | | | | <input type="checkbox"/> | | |

Walla Walla Basin Aquifer Recharge Annual Report Year 2017

Sampled by: S. Patten Phone: 541-938-2170 FAX: SAME Email: steven.patten@wwbwc.org

Sample Receipt Request (Must include FAX or Email) * W - water DW - drinking water SW - surface water GW - Ground water WW - waste water OL - oil

Relinquished by: [Signature] Date: 4-25-17 Time: 1:30 Received by: WPS Date: 4-25-17 Time: 1:30

Custody seals intact Yes No N/A

Sample temp _____ C satisfactory

Samples received intact

Chain of custody & labels agree



| | | | | | |
|----------------|----------------------------|--------------------------|-----------------------|-------------------|--------------|
| Burlington, WA | Corporate | 800-755-8200 | 1000 S. Lincoln St | Spokane, WA 99203 | 509-755-8200 |
| Bellingham, WA | Microbiology (b) | 805 Orchard Dr Ste 4 | Bellingham, WA 98225 | 360.715.1212 | |
| Portland, OR | Microbiology/Chemistry (c) | 9150 SW Pioneer Ct Ste W | Wilsonville, OR 97070 | 503.682.7802 | |
| Corvallis, OR | Microbiology (d) | 540 SW Third Street | Corvallis, OR 97333 | 541.753.4946 | |

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

4/26/2017

Sample Receipt

Page 1 of 7

Mr. Steve Patten
 Walla Walla Basin Watershed Council
 810 South Main Street
 Milton-Freewater, OR 97862

We received the following samples for project "**Stiller Pond 2nd Event 2017**" on **4/26/2017** at **9:00:00AM**. The turnaround is **Standard**; this project is expected to be completed by **05/10/2017**. The temperature of the sample cooler was **2C**. Listed below are the samples, analytical methods and parameters to be tested. If you have any questions concerning this project please refer to reference number **17-09337**.

| | | |
|-----------------------------|------------------------------------|--------------------------------|
| Lab Sample ID: 22048 | Sample Desc: Intake - Stiller Pond | Date Sampled: 4/25/17 10:40 am |
| Sampled By: S Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|--------------------------------|
| Lab Sample ID: 22049 | Sample Desc: GW-136 - Stiller Pond | Date Sampled: 4/25/17 11:40 am |
| Sampled By: S Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|--------------------------------|
| Lab Sample ID: 22050 | Sample Desc: GW-145 - Stiller Pond | Date Sampled: 4/25/17 12:00 pm |
| Sampled By: S Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|--------------------------------|
| Lab Sample ID: 22051 | Sample Desc: GW-146 - Stiller Pond | Date Sampled: 4/25/17 11:15 am |
| Sampled By: S Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|--------------------------------|
| Lab Sample ID: 22052 | Sample Desc: GW-147 - Stiller Pond | Date Sampled: 4/25/17 10:25 am |
| Sampled By: S Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|--|--------------------------------|
| Lab Sample ID: 22053 | Sample Desc: GW-146 Dup - Stiller Pond | Date Sampled: 4/25/17 11:15 am |
| Sampled By: S Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|-------------------------------|-------------------------------|
| Lab Sample ID: 22054 | Sample Desc: Trip Blank - Lab | Date Sampled: 4/25/17 8:30 am |
| Sampled By: S Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS



27 April 2017

Vista Project ID: 1700536

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862
RE: Stiller Pond

Dear Mr. Patten,

The sample(s) listed in the sample inventory were received by Vista Analytical Laboratory on 26-Apr-17.

Please find attached:

- Terms and Conditions
- Sample Inventory Report
- Chain-of-Custody
- Sample Log-in Checklist
- Additional sample documentation (if applicable)

Analytical results are scheduled to be reported to you on 17-May-17.

If you have any questions regarding the status of the work associated with these samples, please contact me at mmaier@vista-analytical.com or (916) 673-1520.

Sincerely,
Martha Maier
Laboratory Director

TERMS AND CONDITIONS

ACCEPTANCE

These terms and conditions are incorporated into, and made a part of, every agreement for services between **Vista Analytical Laboratory, Inc.** ("Vista") and its client ("Client"). The Client accepts these terms and conditions by agreeing to purchase services from Vista or by sending samples to Vista.

PAYMENT

The Client shall pay in full within 30 days after the date that Vista invoices it for services rendered. No payment terms or conditions of purchase orders different from the terms of Vista will become part of any sales agreement, purchase order, or other document unless specifically approved in writing by Vista. Should suit be instituted to collect any debts of the undersigned, the client is responsible to pay all actual costs of collection and attorney's fees and interests on the past due amount at the highest rate legally available.

TURNAROUND TIME

Standard turnaround time is 21 days unless a shorter turnaround time is expressly agreed to by Vista. Turnaround time is defined as the number of calendar days between the first business day after Vista receives a sample or is authorized by the Client to perform an analysis on a sample, whichever occurs last, and the date that Vista transmits the final report for that sample to the Client. Rush orders, i.e., those that the Client requests to have analyzed in less than the standard turnaround time, will be subject to the additional charges set forth in the applicable quotation. Delays caused by acts of God, natural disasters, governmental actions, fires, floods and accidents, and other circumstances for which Vista is not responsible, shall not be counted in determining turnaround time.

SHIPPING

The Client is responsible for delivering its samples to Vista in good condition and the Client shall bear the risk of any loss of or damage to its samples during shipping. Vista reserves the right to refuse to accept delivery of, to refuse to analyze and/or to return any sample to the Client that is not delivered to Vista in good condition or that poses a health or safety risk. The Client shall pay the cost of returning such samples to it.

LIMITATION OF LIABILITY

Vista makes no representations, guarantees or warranties, express or implied, regarding the fitness of its reports for any particular use or purpose and Vista shall not be liable for consequential damages under any circumstance. The client's sole remedy is a refund of the amount that is paid Vista to analyze the sample in question. If Vista loses or damages a sample, after accepting it for analysis, Vista's liability shall not exceed the lesser of \$50 or the amount that the Client expended to obtain the sample.

INDEMNITY

The Client agrees to indemnify and defend Vista, and to hold Vista harmless, against any and all claims, actions, lawsuits, arbitration awards, judgements, damages, liabilities, expenses and costs, including attorneys' fees and court costs, arising out of, or related in any way to, the use to Vista's reports by the Client or by any third party who obtains Vista's reports from the Client.

Effective: 2/14/2007



Sample Inventory Report

| Vista Sample ID | Client Sample ID | Sampled | Received | Components/ Containers |
|-----------------|------------------|-----------------|-----------------|--|
| 1700536-01 | Intake | 25-Apr-17 10:40 | 26-Apr-17 09:52 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700536-02 | GW-136 | 25-Apr-17 11:40 | 26-Apr-17 09:52 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700536-03 | GW-145 | 25-Apr-17 12:00 | 26-Apr-17 09:52 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700536-04 | GW-146 | 25-Apr-17 11:15 | 26-Apr-17 09:52 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700536-05 | GW-147 | 25-Apr-17 10:25 | 26-Apr-17 09:52 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |



Sample Analysis Report

| Vista Sample ID | Client Sample ID | Requested Analysis | Status |
|------------------------|-------------------------|---------------------------|---------------|
| 1700536-01 | Intake | EPA Method 1668C | In Process |
| 1700536-02 | GW-136 | EPA Method 1668C | In Process |
| 1700536-03 | GW-145 | EPA Method 1668C | In Process |
| 1700536-04 | GW-146 | EPA Method 1668C | In Process |
| 1700536-05 | GW-147 | EPA Method 1668C | In Process |



CHAIN OF CUSTODY

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

FOR LABORATORY USE ONLY

Storage Secured Yes No

Laboratory Project ID: 1700536 Temp 5.7 °C

Storage ID: WR-2

Project I.D.: STILLER POND P.O.# _____ Sampler: S. PATTON (Name)

TAT: (Check One):
 Standard: 21 Days
 Rush (surcharge may apply):
 14 days 7 days Specify: _____

Invoice to: Name CHIPS SHEETS Company LWRBWC Address 810 S. MAIN City MELTON-FREEWATER OR State OR Zip 97862 Ph# 541-938-2170 Fax# _____

Relinquished by: (Signature and Printed Name) [Signature] Date: 4-25-17 Time: 13:30 Received by: (Signature and Printed Name) UPS Date: 4-25-17 Time: 13:30

Relinquished by: (Signature and Printed Name) UPS Date: _____ Time: _____ Received by: (Signature and Printed Name) Ms. Marissa Sparks Date: 4/26/17 Time: 09:54

See "Sample Log-in Checklist" for additional sample information

| Sample ID | Date | Time | Location/Sample Description | Quantity | Type | Matrix | Add Analysis(es) Requested | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---------|-------|-----------------------------|----------|------|-----------|----------------------------|-----------|-----------|----------------|-----------|-----------|----------------|-----------|--------|----------------|---------------|------|-----|--------|---------|---------|---------|---------|---------|---------|--|--|---|--|--|--|--|--|--|--|
| | | | | | | | Container(s) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | 2378-TCDD | 2378-TCDD/TCDF | PCDD/PCDF | TOTALS | COPLANAR PCB's | 209 CONGENERS | PBDE | PAH | WHO-29 | EPA1613 | EPA8290 | EPA8280 | EPA1668 | EPA1614 | CARB429 | | | | | | | | | | |
| ISTANCE | 4/25/17 | 10:40 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| GLW-136 | 4/25/17 | 11:40 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| GLW-145 | 4/25/17 | 12:00 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| GLW-146 | 4/25/17 | 11:15 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |
| GLW-147 | 4/25/17 | 10:25 | STILLER POND | 2L | A | AQ | | | | | | | | | | | | | | | | | | | | | | | X | | | | | | | |

Special Instructions/Comments: _____

SEND DOCUMENTATION AND RESULTS TO:

Name: STEVEN PATTON
 Company: LWRBWC
 Address: 810 S. MAIN
 City: MELTON-FREEWATER OR State: OR Zip: 97862
 Phone: 541-938-2170 Fax: SAME
 Email: Steven.patton@lwrbc.org
 Matrix Types: DW = Drinking Water, EF = Effluent, PP = Pulp/Paper, SD = Sediment, SL = Sludge, SO = Soil, WW = Wastewater, B = Blood/Serum, AQ = Aqueous, O = Other

Container Types: A = 1 Liter Amber, G = Glass Jar
 P = PUF, T = MM5 Train, O = Other _____

*Bottle Preservative Type: T = Thiosulfate, O = Other _____

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700536 TAT Std

| | | | |
|------------------|----------------------------|---|----------------------|
| Samples Arrival: | Date/Time 4/26/17 0952 | Initials: WNS | Location: WR-2 |
| | | | Shelf/Rack: N/2 |
| Logged In: | Date/Time 04/26/17 1456 | Initials: AB | Location: WR-2 |
| | | | Shelf/Rack: A2 |
| Delivered By: | FedEx | <u>UPS</u> | On Trac |
| | | | DHL |
| | | | Hand Delivered |
| | | | Other |
| Preservation: | <u>Ice</u> | Blue Ice | Dry Ice |
| | | | None |
| Temp °C: 5.4 | (uncorrected) | Time: 0953 | Thermometer ID: IR-1 |
| Temp °C: 5.7 | (corrected) | Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |

| | | YES | NO | NA |
|--|---|--------|---------------|--------------|
| Adequate Sample Volume Received? | | ✓ | | |
| Holding Time Acceptable? | | ✓ | | |
| Shipping Container(s) Intact? | | ✓ | | |
| Shipping Custody Seals Intact? | | ✓ | | |
| Shipping Documentation Present? | | ✓ | | |
| Airbill | Trk # TZ 626 3F7 01 0290 6289 | ✓ | | |
| Sample Container Intact? | | ✓ | | |
| Sample Custody Seals Intact? | | | | ✓ |
| Chain of Custody / Sample Documentation Present? | | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | | ✓ | |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | | ✓ |
| Preservation Documented: | Na ₂ S ₂ O ₃ | Trizma | Yes | No <u>NA</u> |
| Shipping Container | <u>Vista</u> | Client | <u>Retain</u> | Return |
| | | | | Dispose |

Comments:



May 15, 2017

Vista Work Order No. 1700536

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862

Dear Mr. Patten,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on April 26, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name 'Stiller Pond'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

A handwritten signature in cursive script that reads "Karen Lopez" followed by the word "for" in a smaller font.

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1700536

Case Narrative

Sample Condition on Receipt:

Five aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:

EPA Method 1668C

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. PCB-11 was detected at 5.36 pg/L in the Method Blank. No other analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

TABLE OF CONTENTS

| | |
|-------------------------|----|
| Case Narrative..... | 1 |
| Table of Contents..... | 3 |
| Sample Inventory..... | 4 |
| Analytical Results..... | 5 |
| Qualifiers..... | 32 |
| Certifications..... | 33 |
| Sample Receipt..... | 36 |

Sample Inventory Report

| Vista Sample ID | Client Sample ID | Sampled | Received | Components/Containers |
|-----------------|------------------|-----------------|-----------------|--|
| 1700536-01 | Intake | 25-Apr-17 10:40 | 26-Apr-17 09:52 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700536-02 | GW-136 | 25-Apr-17 11:40 | 26-Apr-17 09:52 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700536-03 | GW-145 | 25-Apr-17 12:00 | 26-Apr-17 09:52 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700536-04 | GW-146 | 25-Apr-17 11:15 | 26-Apr-17 09:52 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700536-05 | GW-147 | 25-Apr-17 10:25 | 26-Apr-17 09:52 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |

ANALYTICAL RESULTS

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | | EPA Method 1668C | | | | |
|-------------------------|--------------|----------------------------------|-------|------------|---|--------------|-------|------|------------|
| Matrix: Aqueous | | QC Batch: B7D0145 | | | Lab Sample: B7D0145-BLK1 | | | | |
| Sample Size: 1.00 L | | Date Extracted: 28-Apr-2017 7:30 | | | Date Analyzed: 28-Apr-17 19:14 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | ND | 0.728 | | | PCB-44 | ND | 0.951 | | |
| PCB-2 | ND | 1.03 | | | PCB-45 | ND | 0.932 | | |
| PCB-3 | ND | 1.01 | | | PCB-46 | ND | 0.994 | | |
| PCB-4/10 | ND | 1.31 | | | PCB-47 | 2.70 | | | J |
| PCB-5/8 | ND | 1.43 | | | PCB-48/75 | ND | 0.658 | | |
| PCB-6 | ND | 0.707 | | | PCB-50 | ND | 0.928 | | |
| PCB-7/9 | ND | 0.971 | | | PCB-51 | ND | 0.799 | | |
| PCB-11 | 5.36 | | | | PCB-52/69 | ND | 1.01 | | |
| PCB-12/13 | ND | 0.851 | | | PCB-53 | ND | 0.842 | | |
| PCB-14 | ND | 0.752 | | | PCB-54 | ND | 0.742 | | |
| PCB-15 | ND | 0.845 | | | PCB-55 | ND | 0.576 | | |
| PCB-16/32 | ND | 0.944 | | | PCB-56/60 | ND | 0.627 | | |
| PCB-17 | ND | 0.528 | | | PCB-57 | ND | 0.627 | | |
| PCB-18 | ND | | 0.932 | | PCB-58 | ND | 0.602 | | |
| PCB-19 | ND | 0.672 | | | PCB-61/70 | ND | 0.874 | | |
| PCB-20/21/33 | ND | 1.05 | | | PCB-62 | ND | 0.659 | | |
| PCB-22 | ND | 0.890 | | | PCB-63 | ND | 0.590 | | |
| PCB-23 | ND | 0.886 | | | PCB-65 | ND | 0.697 | | |
| PCB-24/27 | ND | 0.397 | | | PCB-66/76 | ND | 0.837 | | |
| PCB-25 | ND | 0.950 | | | PCB-67 | ND | 0.636 | | |
| PCB-26 | ND | 0.859 | | | PCB-68 | ND | 0.784 | | |
| PCB-28 | ND | 0.996 | | | PCB-73 | ND | 0.665 | | |
| PCB-29 | ND | 0.852 | | | PCB-74 | ND | 0.587 | | |
| PCB-30 | ND | 0.406 | | | PCB-77 | ND | 0.667 | | |
| PCB-31 | ND | 0.931 | | | PCB-78 | ND | 0.630 | | |
| PCB-34 | ND | 0.847 | | | PCB-79 | ND | 0.587 | | |
| PCB-35 | ND | 1.05 | | | PCB-80 | ND | 0.529 | | |
| PCB-36 | ND | 1.00 | | | PCB-81 | ND | 0.589 | | |
| PCB-37 | ND | 0.908 | | | PCB-82 | ND | 2.16 | | |
| PCB-38 | ND | 1.04 | | | PCB-83 | ND | 1.29 | | |
| PCB-39 | ND | 0.932 | | | PCB-84/92 | ND | 1.71 | | |
| PCB-40 | ND | 1.00 | | | PCB-85/116 | ND | 1.59 | | |
| PCB-41/64/71/72 | ND | 0.926 | | | PCB-86 | ND | 2.20 | | |
| PCB-42/59 | ND | 0.688 | | | PCB-87/117/125 | ND | 1.38 | | |
| PCB-43/49 | ND | 1.17 | | | PCB-88/91 | ND | 1.66 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | | EPA Method 1668C | | | | |
|-------------------------|--------------|----------------------------------|------|------------|---|--------------|-------|------|------------|
| Matrix: Aqueous | | QC Batch: B7D0145 | | | Lab Sample: B7D0145-BLK1 | | | | |
| Sample Size: 1.00 L | | Date Extracted: 28-Apr-2017 7:30 | | | Date Analyzed: 28-Apr-17 19:14 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 1.80 | | | PCB-137 | ND | 0.955 | | |
| PCB-90/101 | ND | 0.884 | | | PCB-138/163/164 | ND | 0.595 | | |
| PCB-93 | ND | 1.86 | | | PCB-139/149 | ND | 1.67 | | |
| PCB-94 | ND | 1.75 | | | PCB-140 | ND | 1.84 | | |
| PCB-95/98/102 | ND | 1.56 | | | PCB-141 | ND | 0.973 | | |
| PCB-96 | ND | 1.34 | | | PCB-142 | ND | 1.13 | | |
| PCB-97 | ND | 1.69 | | | PCB-144 | ND | 1.66 | | |
| PCB-99 | ND | 1.50 | | | PCB-145 | ND | 1.37 | | |
| PCB-100 | ND | 1.47 | | | PCB-146/165 | ND | 0.876 | | |
| PCB-103 | ND | 1.46 | | | PCB-147 | ND | 1.89 | | |
| PCB-104 | ND | 1.18 | | | PCB-148 | ND | 1.81 | | |
| PCB-105 | ND | 1.02 | | | PCB-150 | ND | 1.34 | | |
| PCB-106/118 | ND | 1.24 | | | PCB-151 | ND | 1.79 | | |
| PCB-107/109 | ND | 1.24 | | | PCB-152 | ND | 1.31 | | |
| PCB-108/112 | ND | 1.54 | | | PCB-153 | ND | 0.852 | | |
| PCB-110 | ND | 1.34 | | | PCB-154 | ND | 1.64 | | |
| PCB-111/115 | ND | 1.18 | | | PCB-155 | ND | 1.25 | | |
| PCB-113 | ND | 1.34 | | | PCB-156 | ND | 0.764 | | |
| PCB-114 | ND | 1.02 | | | PCB-157 | ND | 0.787 | | |
| PCB-119 | ND | 1.17 | | | PCB-158/160 | ND | 0.788 | | |
| PCB-120 | ND | 1.09 | | | PCB-159 | ND | 0.735 | | |
| PCB-121 | ND | 1.16 | | | PCB-166 | ND | 0.801 | | |
| PCB-122 | ND | 1.13 | | | PCB-167 | ND | 0.783 | | |
| PCB-123 | ND | 1.24 | | | PCB-168 | ND | 0.707 | | |
| PCB-124 | ND | 1.23 | | | PCB-169 | ND | 0.886 | | |
| PCB-126 | ND | 1.24 | | | PCB-170 | ND | 0.735 | | |
| PCB-127 | ND | 1.14 | | | PCB-171 | ND | 0.698 | | |
| PCB-128/162 | ND | 0.909 | | | PCB-172 | ND | 0.728 | | |
| PCB-129 | ND | 1.18 | | | PCB-173 | ND | 0.860 | | |
| PCB-130 | ND | 1.18 | | | PCB-174 | ND | 0.756 | | |
| PCB-131/133 | ND | 1.09 | | | PCB-175 | ND | 0.676 | | |
| PCB-132/161 | ND | 0.878 | | | PCB-176 | ND | 0.498 | | |
| PCB-134/143 | ND | 1.08 | | | PCB-177 | ND | 0.812 | | |
| PCB-135 | ND | 1.85 | | | PCB-178 | ND | 0.688 | | |
| PCB-136 | ND | 1.28 | | | PCB-179 | ND | 0.540 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | | EPA Method 1668C | | | | |
|-------------------------|--------------|----------------------------------|-------|------------|---|--------------|-------|------|------------|
| Matrix: Aqueous | | QC Batch: B7D0145 | | | Lab Sample: B7D0145-BLK1 | | | | |
| Sample Size: 1.00 L | | Date Extracted: 28-Apr-2017 7:30 | | | Date Analyzed: 28-Apr-17 19:14 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-180 | ND | 0.708 | | | Total octaCB | ND | 1.44 | | |
| PCB-181 | ND | 0.717 | | | Total nonaCB | ND | 0.599 | | |
| PCB-182/187 | ND | 0.625 | | | DecaCB | ND | 0.511 | | |
| PCB-183 | ND | 0.581 | | | Total PCB | 8.05 | | | |
| PCB-184 | ND | 0.539 | | | | | | | |
| PCB-185 | ND | 0.724 | | | | | | | |
| PCB-186 | ND | 0.496 | | | | | | | |
| PCB-188 | ND | 0.495 | | | | | | | |
| PCB-189 | ND | 0.491 | | | | | | | |
| PCB-190 | ND | 0.529 | | | | | | | |
| PCB-191 | ND | 0.528 | | | | | | | |
| PCB-192 | ND | 0.562 | | | | | | | |
| PCB-193 | ND | 0.542 | | | | | | | |
| PCB-194 | ND | 0.444 | | | | | | | |
| PCB-195 | ND | 0.563 | | | | | | | |
| PCB-196/203 | ND | 1.26 | | | | | | | |
| PCB-197 | ND | 0.908 | | | | | | | |
| PCB-198 | ND | 1.32 | | | | | | | |
| PCB-199 | ND | 1.44 | | | | | | | |
| PCB-200 | ND | 0.975 | | | | | | | |
| PCB-201 | ND | 0.959 | | | | | | | |
| PCB-202 | ND | 1.04 | | | | | | | |
| PCB-204 | ND | 1.02 | | | | | | | |
| PCB-205 | ND | 0.397 | | | | | | | |
| PCB-206 | ND | 0.599 | | | | | | | |
| PCB-207 | ND | 0.387 | | | | | | | |
| PCB-208 | ND | 0.395 | | | | | | | |
| PCB-209 | ND | 0.511 | | | | | | | |
| Total monoCB | ND | 1.03 | | | | | | | |
| Total diCB | 5.36 | | | | | | | | |
| Total triCB | ND | | 0.932 | | | | | | |
| Total tetraCB | 2.70 | | | | | | | | |
| Total pentaCB | ND | 2.20 | | | | | | | |
| Total hexaCB | ND | 1.89 | | | | | | | |
| Total heptaCB | ND | 0.860 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | EPA Method 1668C | | | |
|-------------------------|------|----------------------------------|------------|--------------------------------|------|--------------|------------|
| Matrix: Aqueous | | QC Batch: B7D0145 | | Lab Sample: B7D0145-BLK1 | | | |
| Sample Size: 1.00 L | | Date Extracted: 28-Apr-2017 7:30 | | Date Analyzed: 28-Apr-17 19:14 | | Column: ZB-1 | |
| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
| IS 13C-PCB-1 | 51.2 | 5 - 145 | | 13C-PCB-157 | 92.8 | 10 - 145 | |
| 13C-PCB-3 | 55.3 | 5 - 145 | | 13C-PCB-159 | 96.4 | 10 - 145 | |
| 13C-PCB-4 | 54.5 | 5 - 145 | | 13C-PCB-167 | 95.7 | 10 - 145 | |
| 13C-PCB-11 | 71.4 | 5 - 145 | | 13C-PCB-169 | 92.7 | 10 - 145 | |
| 13C-PCB-9 | 59.5 | 5 - 145 | | 13C-PCB-170 | 92.6 | 10 - 145 | |
| 13C-PCB-19 | 84.6 | 5 - 145 | | 13C-PCB-180 | 92.8 | 10 - 145 | |
| 13C-PCB-28 | 94.8 | 5 - 145 | | 13C-PCB-188 | 99.6 | 10 - 145 | |
| 13C-PCB-32 | 94.1 | 5 - 145 | | 13C-PCB-189 | 89.8 | 10 - 145 | |
| 13C-PCB-37 | 96.9 | 5 - 145 | | 13C-PCB-194 | 94.5 | 10 - 145 | |
| 13C-PCB-47 | 90.6 | 5 - 145 | | 13C-PCB-202 | 116 | 10 - 145 | |
| 13C-PCB-52 | 89.5 | 5 - 145 | | 13C-PCB-206 | 76.8 | 10 - 145 | |
| 13C-PCB-54 | 75.0 | 5 - 145 | | 13C-PCB-208 | 72.8 | 10 - 145 | |
| 13C-PCB-70 | 92.6 | 5 - 145 | | 13C-PCB-209 | 78.8 | 10 - 145 | |
| 13C-PCB-77 | 90.9 | 10 - 145 | | CRS 13C-PCB-79 | 96.8 | 10 - 145 | |
| 13C-PCB-80 | 92.5 | 10 - 145 | | 13C-PCB-178 | 98.7 | 10 - 145 | |
| 13C-PCB-81 | 91.6 | 10 - 145 | | | | | |
| 13C-PCB-95 | 95.8 | 10 - 145 | | | | | |
| 13C-PCB-97 | 96.8 | 10 - 145 | | | | | |
| 13C-PCB-101 | 97.3 | 10 - 145 | | | | | |
| 13C-PCB-104 | 92.7 | 10 - 145 | | | | | |
| 13C-PCB-105 | 117 | 10 - 145 | | | | | |
| 13C-PCB-114 | 117 | 10 - 145 | | | | | |
| 13C-PCB-118 | 93.4 | 10 - 145 | | | | | |
| 13C-PCB-123 | 94.4 | 10 - 145 | | | | | |
| 13C-PCB-126 | 116 | 10 - 145 | | | | | |
| 13C-PCB-127 | 117 | 10 - 145 | | | | | |
| 13C-PCB-138 | 95.3 | 10 - 145 | | | | | |
| 13C-PCB-141 | 96.8 | 10 - 145 | | | | | |
| 13C-PCB-153 | 97.7 | 10 - 145 | | | | | |
| 13C-PCB-155 | 104 | 10 - 145 | | | | | |
| 13C-PCB-156 | 91.5 | 10 - 145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

| Sample ID: OPR | | | | | EPA Method 1668C | | | |
|---------------------|----------------------------------|-------------------------|------|----------|---|------|----------|--|
| Matrix: Aqueous | QC Batch: B7D0145 | Lab Sample: B7D0145-BS1 | | | Date Analyzed: 28-Apr-17 17:05 Column: ZB-1 | | | |
| Sample Size: 1.00 L | Date Extracted: 28-Apr-2017 7:30 | | | | | | | |
| Analyte | Amt Found (pg/L) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL | |
| PCB-1 | 816 | 1000 | 81.6 | 60 - 135 | IS 13C-PCB-1 | 36.4 | 15 - 145 | |
| PCB-3 | 828 | 1000 | 82.8 | 60 - 135 | IS 13C-PCB-3 | 41.8 | 15 - 145 | |
| PCB-4/10 | 2020 | 2000 | 101 | 60 - 135 | IS 13C-PCB-4 | 42.3 | 15 - 145 | |
| PCB-15 | 1060 | 1000 | 106 | 60 - 135 | IS 13C-PCB-11 | 63.5 | 15 - 145 | |
| PCB-19 | 727 | 1000 | 72.7 | 60 - 135 | IS 13C-PCB-9 | 49.3 | 15 - 145 | |
| PCB-37 | 1200 | 1000 | 120 | 60 - 135 | IS 13C-PCB-19 | 73.3 | 15 - 145 | |
| PCB-54 | 876 | 1000 | 87.6 | 60 - 135 | IS 13C-PCB-28 | 69.0 | 15 - 145 | |
| PCB-77 | 877 | 1000 | 87.7 | 60 - 135 | IS 13C-PCB-32 | 84.8 | 15 - 145 | |
| PCB-81 | 891 | 1000 | 89.1 | 60 - 135 | IS 13C-PCB-37 | 85.0 | 15 - 145 | |
| PCB-104 | 813 | 1000 | 81.3 | 60 - 135 | IS 13C-PCB-47 | 86.5 | 15 - 145 | |
| PCB-105 | 1080 | 1000 | 108 | 60 - 135 | IS 13C-PCB-52 | 84.6 | 15 - 145 | |
| PCB-106/118 | 1680 | 2000 | 84.0 | 60 - 135 | IS 13C-PCB-54 | 67.6 | 15 - 145 | |
| PCB-114 | 1110 | 1000 | 111 | 60 - 135 | IS 13C-PCB-70 | 91.4 | 15 - 145 | |
| PCB-123 | 833 | 1000 | 83.3 | 60 - 135 | IS 13C-PCB-77 | 98.4 | 40 - 145 | |
| PCB-126 | 1090 | 1000 | 109 | 60 - 135 | IS 13C-PCB-80 | 91.6 | 40 - 145 | |
| PCB-155 | 902 | 1000 | 90.2 | 60 - 135 | IS 13C-PCB-81 | 96.4 | 40 - 145 | |
| PCB-156 | 965 | 1000 | 96.5 | 60 - 135 | IS 13C-PCB-95 | 93.3 | 40 - 145 | |
| PCB-157 | 947 | 1000 | 94.7 | 60 - 135 | IS 13C-PCB-97 | 98.5 | 40 - 145 | |
| PCB-167 | 954 | 1000 | 95.4 | 60 - 135 | IS 13C-PCB-101 | 97.2 | 40 - 145 | |
| PCB-169 | 979 | 1000 | 97.9 | 60 - 135 | IS 13C-PCB-104 | 86.6 | 40 - 145 | |
| PCB-188 | 873 | 1000 | 87.3 | 60 - 135 | IS 13C-PCB-105 | 126 | 40 - 145 | |
| PCB-189 | 918 | 1000 | 91.8 | 60 - 135 | IS 13C-PCB-114 | 125 | 40 - 145 | |
| PCB-202 | 832 | 1000 | 83.2 | 60 - 135 | IS 13C-PCB-118 | 97.6 | 40 - 145 | |
| PCB-205 | 1120 | 1000 | 112 | 60 - 135 | IS 13C-PCB-123 | 96.7 | 40 - 145 | |
| PCB-206 | 1010 | 1000 | 101 | 60 - 135 | IS 13C-PCB-126 | 128 | 40 - 145 | |
| PCB-208 | 994 | 1000 | 99.4 | 60 - 135 | IS 13C-PCB-127 | 128 | 40 - 145 | |
| PCB-209 | 889 | 1000 | 88.9 | 60 - 135 | IS 13C-PCB-138 | 102 | 40 - 145 | |
| | | | | | IS 13C-PCB-141 | 102 | 40 - 145 | |
| | | | | | IS 13C-PCB-153 | 102 | 40 - 145 | |
| | | | | | IS 13C-PCB-155 | 98.4 | 40 - 145 | |
| | | | | | IS 13C-PCB-156 | 99.9 | 40 - 145 | |
| | | | | | IS 13C-PCB-157 | 99.7 | 40 - 145 | |
| | | | | | IS 13C-PCB-159 | 102 | 40 - 145 | |
| | | | | | IS 13C-PCB-167 | 101 | 40 - 145 | |
| | | | | | IS 13C-PCB-169 | 97.3 | 40 - 145 | |
| | | | | | IS 13C-PCB-170 | 99.0 | 40 - 145 | |
| | | | | | IS 13C-PCB-180 | 101 | 40 - 145 | |
| | | | | | IS 13C-PCB-188 | 103 | 40 - 145 | |
| | | | | | IS 13C-PCB-189 | 97.9 | 40 - 145 | |
| | | | | | IS 13C-PCB-194 | 101 | 40 - 145 | |

| Sample ID: OPR | | | | | EPA Method 1668C | | |
|--|---|--|----|--------|------------------|------|----------|
| Matrix: Aqueous Sample Size: 1.00 L | QC Batch: B7D0145 Date Extracted: 28-Apr-2017 7:30 | Lab Sample: B7D0145-BS1 Date Analyzed: 28-Apr-17 17:05 Column: ZB-1 | | | | | |
| Analyte | Amt Found (pg/L) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL |
| | | | | | IS 13C-PCB-202 | 120 | 40 - 145 |
| | | | | | IS 13C-PCB-206 | 80.2 | 40 - 145 |
| | | | | | IS 13C-PCB-208 | 76.5 | 40 - 145 |
| | | | | | IS 13C-PCB-209 | 78.4 | 40 - 145 |
| | | | | | CRS 13C-PCB-79 | 89.6 | 40 - 145 |
| | | | | | CRS 13C-PCB-178 | 96.5 | 40 - 145 |

LCL-UCL - Lower control limit - upper control limit

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Intake | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|----------------------|------------|---|--------------|----------------------------------|------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700536-01 | | Date Received: 26-Apr-2017 9:52 | | |
| Project: Stiller Pond | | | Sample Size: 0.994 L | | QC Batch: B7D0145 | | Date Extracted: 28-Apr-2017 7:30 | | |
| Date Collected: 25-Apr-2017 10:40 | | | | | Date Analyzed: 28-Apr-17 20:19 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | ND | 0.553 | | | PCB-44 | 3.20 | | | J |
| PCB-2 | ND | | 0.664 | | PCB-45 | 0.585 | | | J |
| PCB-3 | ND | | 1.02 | | PCB-46 | ND | 0.672 | | |
| PCB-4/10 | ND | 2.73 | | | PCB-47 | 9.72 | | | B |
| PCB-5/8 | 3.83 | | | J | PCB-48/75 | 0.873 | | | J |
| PCB-6 | ND | 1.24 | | | PCB-50 | ND | 0.603 | | |
| PCB-7/9 | ND | 1.02 | | | PCB-51 | 2.90 | | | J |
| PCB-11 | 12.9 | | | B | PCB-52/69 | 3.73 | | | J |
| PCB-12/13 | ND | 0.920 | | | PCB-53 | 0.705 | | | J |
| PCB-14 | ND | 0.813 | | | PCB-54 | ND | 0.482 | | |
| PCB-15 | 1.53 | | | J | PCB-55 | ND | 0.384 | | |
| PCB-16/32 | 3.16 | | | J | PCB-56/60 | 1.94 | | | J |
| PCB-17 | 1.78 | | | J | PCB-57 | ND | 0.427 | | |
| PCB-18 | 4.93 | | | J | PCB-58 | ND | 0.409 | | |
| PCB-19 | ND | | 0.508 | | PCB-61/70 | 3.06 | | | J |
| PCB-20/21/33 | 3.95 | | | J | PCB-62 | ND | 0.439 | | |
| PCB-22 | 2.80 | | | J | PCB-63 | ND | 0.401 | | |
| PCB-23 | ND | 0.509 | | | PCB-65 | ND | 0.464 | | |
| PCB-24/27 | ND | 0.396 | | | PCB-66/76 | 2.06 | | | J |
| PCB-25 | ND | | 0.472 | | PCB-67 | ND | 0.433 | | |
| PCB-26 | 1.19 | | | J | PCB-68 | 1.33 | | | J |
| PCB-28 | 6.06 | | | | PCB-73 | ND | 0.450 | | |
| PCB-29 | ND | 0.490 | | | PCB-74 | 1.14 | | | J |
| PCB-30 | ND | 0.352 | | | PCB-77 | ND | 0.417 | | |
| PCB-31 | 4.05 | | | J | PCB-78 | ND | 0.417 | | |
| PCB-34 | ND | 0.487 | | | PCB-79 | ND | 0.391 | | |
| PCB-35 | ND | 0.626 | | | PCB-80 | ND | 0.353 | | |
| PCB-36 | ND | 0.595 | | | PCB-81 | ND | 0.390 | | |
| PCB-37 | 1.47 | | | J | PCB-82 | ND | 1.22 | | |
| PCB-38 | ND | 0.618 | | | PCB-83 | ND | 0.707 | | |
| PCB-39 | ND | 0.554 | | | PCB-84/92 | ND | | 1.01 | |
| PCB-40 | 0.785 | | | J | PCB-85/116 | ND | 0.871 | | |
| PCB-41/64/71/72 | 2.88 | | | J | PCB-86 | ND | 1.21 | | |
| PCB-42/59 | 1.18 | | | J | PCB-87/117/125 | 1.26 | | | J |
| PCB-43/49 | 1.87 | | | J | PCB-88/91 | ND | 0.935 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

| Sample ID: Intake | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|----------------------|------------|---|--------------|----------------------------------|------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700536-01 | | Date Received: 26-Apr-2017 9:52 | | |
| Project: Stiller Pond | | | Sample Size: 0.994 L | | QC Batch: B7D0145 | | Date Extracted: 28-Apr-2017 7:30 | | |
| Date Collected: 25-Apr-2017 10:40 | | | | | Date Analyzed: 28-Apr-17 20:19 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 1.00 | | | PCB-137 | ND | 0.548 | | |
| PCB-90/101 | 2.80 | | | J | PCB-138/163/164 | 3.39 | | | J |
| PCB-93 | ND | 1.05 | | | PCB-139/149 | ND | | 1.44 | |
| PCB-94 | ND | 0.986 | | | PCB-140 | ND | 1.02 | | |
| PCB-95/98/102 | 1.98 | | | J | PCB-141 | 0.626 | | | J |
| PCB-96 | ND | 0.748 | | | PCB-142 | ND | 0.662 | | |
| PCB-97 | ND | 0.925 | | | PCB-144 | ND | 0.923 | | |
| PCB-99 | 1.44 | | | J | PCB-145 | ND | 0.759 | | |
| PCB-100 | ND | 0.819 | | | PCB-146/165 | ND | 0.515 | | |
| PCB-103 | ND | 0.814 | | | PCB-147 | ND | 1.05 | | |
| PCB-104 | ND | 0.658 | | | PCB-148 | ND | 1.00 | | |
| PCB-105 | 1.13 | | | J | PCB-150 | ND | 0.742 | | |
| PCB-106/118 | 1.89 | | | J | PCB-151 | ND | 0.992 | | |
| PCB-107/109 | ND | 0.701 | | | PCB-152 | ND | 0.730 | | |
| PCB-108/112 | ND | 0.844 | | | PCB-153 | 2.99 | | | J |
| PCB-110 | 3.20 | | | J | PCB-154 | ND | 0.911 | | |
| PCB-111/115 | ND | 0.647 | | | PCB-155 | ND | 0.693 | | |
| PCB-113 | ND | 0.743 | | | PCB-156 | 0.398 | | | J |
| PCB-114 | ND | 0.597 | | | PCB-157 | ND | 0.431 | | |
| PCB-119 | ND | 0.642 | | | PCB-158/160 | ND | 0.430 | | |
| PCB-120 | ND | 0.595 | | | PCB-159 | ND | 0.405 | | |
| PCB-121 | ND | 0.652 | | | PCB-166 | ND | 0.441 | | |
| PCB-122 | ND | 0.658 | | | PCB-167 | ND | 0.443 | | |
| PCB-123 | ND | 0.703 | | | PCB-168 | ND | 0.416 | | |
| PCB-124 | ND | 0.698 | | | PCB-169 | ND | 0.502 | | |
| PCB-126 | ND | 0.703 | | | PCB-170 | ND | 0.462 | | |
| PCB-127 | ND | 0.704 | | | PCB-171 | ND | 0.437 | | |
| PCB-128/162 | 0.681 | | | J | PCB-172 | ND | 0.456 | | |
| PCB-129 | ND | 0.643 | | | PCB-173 | ND | 0.538 | | |
| PCB-130 | ND | 0.679 | | | PCB-174 | 0.742 | | | J |
| PCB-131/133 | ND | 0.642 | | | PCB-175 | ND | 0.437 | | |
| PCB-132/161 | 0.980 | | | J | PCB-176 | ND | 0.322 | | |
| PCB-134/143 | ND | 0.637 | | | PCB-177 | 0.637 | | | J |
| PCB-135 | ND | 1.03 | | | PCB-178 | ND | 0.445 | | |
| PCB-136 | ND | 0.710 | | | PCB-179 | 0.454 | | | J |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: Intake

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700536-01 |
| Project: | Stiller Pond | Sample Size: | 0.994 L | Date Received: | 26-Apr-2017 9:52 |
| Date Collected: | 25-Apr-2017 10:40 | | | QC Batch: | B7D0145 |
| | | | | Date Analyzed: | 28-Apr-17 20:19 |
| | | | | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|-------|------------|--------------|--------------|----|-------|------------|
| PCB-180 | 1.56 | | | J | Total octaCB | 0.563 | | 1.97 | |
| PCB-181 | ND | 0.449 | | | Total nonaCB | ND | | 0.263 | |
| PCB-182/187 | 0.834 | | | J | DecaCB | ND | | 0.496 | |
| PCB-183 | ND | 0.376 | | | Total PCB | 113 | | | |
| PCB-184 | ND | 0.348 | | | | | | | |
| PCB-185 | ND | 0.453 | | | | | | | |
| PCB-186 | ND | 0.321 | | | | | | | |
| PCB-188 | ND | 0.320 | | | | | | | |
| PCB-189 | ND | 0.306 | | | | | | | |
| PCB-190 | ND | 0.332 | | | | | | | |
| PCB-191 | ND | 0.330 | | | | | | | |
| PCB-192 | ND | 0.352 | | | | | | | |
| PCB-193 | ND | 0.339 | | | | | | | |
| PCB-194 | ND | | 0.899 | | | | | | |
| PCB-195 | ND | 0.857 | | | | | | | |
| PCB-196/203 | ND | | 0.505 | | | | | | |
| PCB-197 | ND | 0.529 | | | | | | | |
| PCB-198 | ND | 0.771 | | | | | | | |
| PCB-199 | 0.563 | | | J | | | | | |
| PCB-200 | ND | 0.568 | | | | | | | |
| PCB-201 | ND | 0.559 | | | | | | | |
| PCB-202 | ND | 0.606 | | | | | | | |
| PCB-204 | ND | 0.594 | | | | | | | |
| PCB-205 | ND | 0.239 | | | | | | | |
| PCB-206 | ND | 0.357 | | | | | | | |
| PCB-207 | ND | 0.223 | | | | | | | |
| PCB-208 | ND | | 0.263 | | | | | | |
| PCB-209 | ND | | 0.496 | | | | | | |
| Total monoCB | ND | | 1.68 | | | | | | |
| Total diCB | 18.3 | | | | | | | | |
| Total triCB | 29.4 | | 30.4 | | | | | | |
| Total tetraCB | 38.0 | | | | | | | | |
| Total pentaCB | 13.7 | | 14.7 | | | | | | |
| Total hexaCB | 9.07 | | 10.5 | | | | | | |
| Total heptaCB | 4.22 | | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: Intake

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700536-01 |
| Project: | Stiller Pond | Sample Size: | 0.994 L | Date Received: | 26-Apr-2017 9:52 |
| Date Collected: | 25-Apr-2017 10:40 | | | QC Batch: | B7D0145 |
| | | | | Date Analyzed: | 28-Apr-17 20:19 |
| | | | | Column: | ZB-1 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 56.8 | 5 -145 | | 13C-PCB-170 | 90.2 | 10 -145 | |
| 13C-PCB-3 | 60.7 | 5 -145 | | 13C-PCB-180 | 94.8 | 10 -145 | |
| 13C-PCB-4 | 59.6 | 5 -145 | | 13C-PCB-188 | 94.3 | 10 -145 | |
| 13C-PCB-11 | 73.7 | 5 -145 | | 13C-PCB-189 | 89.4 | 10 -145 | |
| 13C-PCB-9 | 63.2 | 5 -145 | | 13C-PCB-194 | 95.1 | 10 -145 | |
| 13C-PCB-19 | 87.1 | 5 -145 | | 13C-PCB-202 | 115 | 10 -145 | |
| 13C-PCB-28 | 93.6 | 5 -145 | | 13C-PCB-206 | 73.3 | 10 -145 | |
| 13C-PCB-32 | 94.9 | 5 -145 | | 13C-PCB-208 | 72.1 | 10 -145 | |
| 13C-PCB-37 | 90.9 | 5 -145 | | 13C-PCB-209 | 72.4 | 10 -145 | |
| 13C-PCB-47 | 90.5 | 5 -145 | | CRS 13C-PCB-79 | 93.9 | 10 -145 | |
| 13C-PCB-52 | 88.6 | 5 -145 | | 13C-PCB-178 | 96.0 | 10 -145 | |
| 13C-PCB-54 | 77.6 | 5 -145 | | | | | |
| 13C-PCB-70 | 90.5 | 5 -145 | | | | | |
| 13C-PCB-77 | 93.5 | 10 -145 | | | | | |
| 13C-PCB-80 | 90.7 | 10 -145 | | | | | |
| 13C-PCB-81 | 92.7 | 10 -145 | | | | | |
| 13C-PCB-95 | 93.1 | 10 -145 | | | | | |
| 13C-PCB-97 | 94.1 | 10 -145 | | | | | |
| 13C-PCB-101 | 94.9 | 10 -145 | | | | | |
| 13C-PCB-104 | 90.8 | 10 -145 | | | | | |
| 13C-PCB-105 | 117 | 10 -145 | | | | | |
| 13C-PCB-114 | 119 | 10 -145 | | | | | |
| 13C-PCB-118 | 91.5 | 10 -145 | | | | | |
| 13C-PCB-123 | 91.8 | 10 -145 | | | | | |
| 13C-PCB-126 | 118 | 10 -145 | | | | | |
| 13C-PCB-127 | 117 | 10 -145 | | | | | |
| 13C-PCB-138 | 96.5 | 10 -145 | | | | | |
| 13C-PCB-141 | 95.1 | 10 -145 | | | | | |
| 13C-PCB-153 | 93.9 | 10 -145 | | | | | |
| 13C-PCB-155 | 104 | 10 -145 | | | | | |
| 13C-PCB-156 | 93.3 | 10 -145 | | | | | |
| 13C-PCB-157 | 92.9 | 10 -145 | | | | | |
| 13C-PCB-159 | 95.9 | 10 -145 | | | | | |
| 13C-PCB-167 | 94.5 | 10 -145 | | | | | |
| 13C-PCB-169 | 90.9 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW-136 | | | | | EPA Method 1668C | | | | |
|-------------------|-------------------------------------|-------|--------------|------------|------------------|------------------------------|-----------------|------------------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: | Walla Walla Basin Watershed Council | | Matrix: | Aqueous | Lab Sample: | 1700536-02 | Date Received: | 26-Apr-2017 9:52 | |
| Project: | Stiller Pond | | Sample Size: | 1.01 L | QC Batch: | B7D0145 | Date Extracted: | 28-Apr-2017 7:30 | |
| Date Collected: | 25-Apr-2017 11:40 | | | | Date Analyzed: | 28-Apr-17 21:24 Column: ZB-1 | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | 12.3 | | | | PCB-44 | 4.38 | | | J |
| PCB-2 | 0.902 | | | J | PCB-45 | 1.72 | | | J |
| PCB-3 | 4.63 | | | J | PCB-46 | 0.961 | | | J |
| PCB-4/10 | 39.0 | | | | PCB-47 | 3.32 | | | J, B |
| PCB-5/8 | 94.0 | | | | PCB-48/75 | 1.04 | | | J |
| PCB-6 | 17.3 | | | | PCB-50 | ND | 0.667 | | |
| PCB-7/9 | 8.42 | | | J | PCB-51 | ND | | 0.676 | |
| PCB-11 | 11.1 | | | B | PCB-52/69 | 3.91 | | | J |
| PCB-12/13 | ND | 2.41 | | | PCB-53 | 1.39 | | | J |
| PCB-14 | ND | 0.574 | | | PCB-54 | ND | 0.533 | | |
| PCB-15 | 13.8 | | | | PCB-55 | ND | 0.406 | | |
| PCB-16/32 | 23.2 | | | | PCB-56/60 | 1.15 | | | J |
| PCB-17 | 12.8 | | | | PCB-57 | ND | 0.426 | | |
| PCB-18 | 36.5 | | | | PCB-58 | ND | 0.409 | | |
| PCB-19 | 4.68 | | | J | PCB-61/70 | 2.00 | | | J |
| PCB-20/21/33 | 23.3 | | | | PCB-62 | ND | 0.477 | | |
| PCB-22 | 11.0 | | | | PCB-63 | ND | 0.401 | | |
| PCB-23 | ND | 0.667 | | | PCB-65 | ND | 0.505 | | |
| PCB-24/27 | 2.89 | | | J | PCB-66/76 | 1.69 | | | J |
| PCB-25 | 2.33 | | | J | PCB-67 | ND | 0.432 | | |
| PCB-26 | 4.52 | | | J | PCB-68 | ND | 0.405 | | |
| PCB-28 | 22.3 | | | | PCB-73 | ND | 0.472 | | |
| PCB-29 | ND | 0.642 | | | PCB-74 | ND | | 0.755 | |
| PCB-30 | ND | 0.381 | | | PCB-77 | ND | 0.422 | | |
| PCB-31 | 22.1 | | | | PCB-78 | ND | 0.427 | | |
| PCB-34 | ND | 0.638 | | | PCB-79 | ND | 0.413 | | |
| PCB-35 | ND | 0.800 | | | PCB-80 | ND | 0.373 | | |
| PCB-36 | ND | 0.761 | | | PCB-81 | ND | 0.400 | | |
| PCB-37 | 2.28 | | | J | PCB-82 | ND | 1.27 | | |
| PCB-38 | ND | 0.791 | | | PCB-83 | ND | 0.741 | | |
| PCB-39 | ND | 0.708 | | | PCB-84/92 | ND | 0.944 | | |
| PCB-40 | ND | 0.725 | | | PCB-85/116 | ND | 0.913 | | |
| PCB-41/64/71/72 | 3.34 | | | J | PCB-86 | ND | 1.26 | | |
| PCB-42/59 | 1.60 | | | J | PCB-87/117/125 | ND | 0.703 | | |
| PCB-43/49 | 3.20 | | | J | PCB-88/91 | ND | 0.997 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW-136 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700536-02 | | Date Received: 26-Apr-2017 9:52 | | |
| Project: Stiller Pond | | | Sample Size: 1.01 L | | QC Batch: B7D0145 | | Date Extracted: 28-Apr-2017 7:30 | | |
| Date Collected: 25-Apr-2017 11:40 | | | | | Date Analyzed: 28-Apr-17 21:24 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 1.13 | | | PCB-137 | ND | 0.542 | | |
| PCB-90/101 | 1.04 | | | J | PCB-138/163/164 | 0.794 | | | J |
| PCB-93 | ND | 1.12 | | | PCB-139/149 | ND | 0.538 | | |
| PCB-94 | ND | 1.05 | | | PCB-140 | ND | 0.889 | | |
| PCB-95/98/102 | 0.929 | | | J | PCB-141 | ND | 0.552 | | |
| PCB-96 | ND | 0.842 | | | PCB-142 | ND | 0.630 | | |
| PCB-97 | ND | 0.970 | | | PCB-144 | ND | 0.803 | | |
| PCB-99 | ND | 0.827 | | | PCB-145 | ND | 0.660 | | |
| PCB-100 | ND | 0.922 | | | PCB-146/165 | ND | 0.490 | | |
| PCB-103 | ND | 0.915 | | | PCB-147 | ND | 0.913 | | |
| PCB-104 | ND | 0.740 | | | PCB-148 | ND | 0.873 | | |
| PCB-105 | ND | 0.638 | | | PCB-150 | ND | 0.646 | | |
| PCB-106/118 | ND | 0.627 | | | PCB-151 | ND | 0.863 | | |
| PCB-107/109 | ND | 0.729 | | | PCB-152 | ND | 0.635 | | |
| PCB-108/112 | ND | 0.885 | | | PCB-153 | ND | | 0.696 | |
| PCB-110 | 0.976 | | | J | PCB-154 | ND | 0.793 | | |
| PCB-111/115 | ND | 0.678 | | | PCB-155 | ND | 0.603 | | |
| PCB-113 | ND | 0.838 | | | PCB-156 | ND | 0.419 | | |
| PCB-114 | ND | 0.656 | | | PCB-157 | ND | 0.428 | | |
| PCB-119 | ND | 0.674 | | | PCB-158/160 | ND | 0.417 | | |
| PCB-120 | ND | 0.624 | | | PCB-159 | ND | 0.401 | | |
| PCB-121 | ND | 0.695 | | | PCB-166 | ND | 0.437 | | |
| PCB-122 | ND | 0.723 | | | PCB-167 | ND | 0.433 | | |
| PCB-123 | ND | 0.731 | | | PCB-168 | ND | 0.395 | | |
| PCB-124 | ND | 0.726 | | | PCB-169 | ND | 0.498 | | |
| PCB-126 | ND | 0.768 | | | PCB-170 | ND | 0.444 | | |
| PCB-127 | ND | 0.727 | | | PCB-171 | ND | 0.444 | | |
| PCB-128/162 | ND | 0.496 | | | PCB-172 | ND | 0.463 | | |
| PCB-129 | ND | 0.624 | | | PCB-173 | ND | 0.547 | | |
| PCB-130 | ND | 0.671 | | | PCB-174 | ND | 0.481 | | |
| PCB-131/133 | ND | 0.610 | | | PCB-175 | ND | 0.408 | | |
| PCB-132/161 | ND | 0.491 | | | PCB-176 | ND | 0.300 | | |
| PCB-134/143 | ND | 0.606 | | | PCB-177 | ND | 0.516 | | |
| PCB-135 | ND | 0.895 | | | PCB-178 | ND | 0.415 | | |
| PCB-136 | ND | 0.618 | | | PCB-179 | ND | 0.326 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Sample ID: GW-136

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700536-02 |
| Project: | Stiller Pond | Sample Size: | 1.01 L | Date Received: | 26-Apr-2017 9:52 |
| Date Collected: | 25-Apr-2017 11:40 | | | QC Batch: | B7D0145 |
| | | | | Date Analyzed: | 28-Apr-17 21:24 |
| | | | | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|------|------------|--------------|--------------|-------|------|------------|
| PCB-180 | ND | 0.450 | | | Total octaCB | 0.525 | | | |
| PCB-181 | ND | 0.456 | | | Total nonaCB | ND | 0.486 | | |
| PCB-182/187 | ND | 0.377 | | | DecaCB | ND | 0.271 | | |
| PCB-183 | ND | 0.350 | | | Total PCB | 403 | | | |
| PCB-184 | ND | 0.325 | | | | | | | |
| PCB-185 | ND | 0.460 | | | | | | | |
| PCB-186 | ND | 0.299 | | | | | | | |
| PCB-188 | ND | 0.298 | | | | | | | |
| PCB-189 | ND | 0.297 | | | | | | | |
| PCB-190 | ND | 0.319 | | | | | | | |
| PCB-191 | ND | 0.336 | | | | | | | |
| PCB-192 | ND | 0.358 | | | | | | | |
| PCB-193 | ND | 0.344 | | | | | | | |
| PCB-194 | 0.525 | | | J | | | | | |
| PCB-195 | ND | 0.724 | | | | | | | |
| PCB-196/203 | ND | 0.792 | | | | | | | |
| PCB-197 | ND | 0.570 | | | | | | | |
| PCB-198 | ND | 0.831 | | | | | | | |
| PCB-199 | ND | 0.903 | | | | | | | |
| PCB-200 | ND | 0.612 | | | | | | | |
| PCB-201 | ND | 0.602 | | | | | | | |
| PCB-202 | ND | 0.653 | | | | | | | |
| PCB-204 | ND | 0.640 | | | | | | | |
| PCB-205 | ND | 0.510 | | | | | | | |
| PCB-206 | ND | 0.486 | | | | | | | |
| PCB-207 | ND | 0.305 | | | | | | | |
| PCB-208 | ND | 0.311 | | | | | | | |
| PCB-209 | ND | 0.271 | | | | | | | |
| Total monoCB | 17.8 | | | | | | | | |
| Total diCB | 184 | | | | | | | | |
| Total triCB | 168 | | | | | | | | |
| Total tetraCB | 29.7 | | 31.1 | | | | | | |
| Total pentaCB | 2.94 | | | | | | | | |
| Total hexaCB | 0.794 | | 1.49 | | | | | | |
| Total heptaCB | ND | 0.547 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

| Sample ID: GW-136 | | | | EPA Method 1668C | | | |
|---|------|---------------------|------------|---|------|----------------------------------|------------|
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: Walla Walla Basin Watershed Council | | Matrix: Aqueous | | Lab Sample: 1700536-02 | | Date Received: 26-Apr-2017 9:52 | |
| Project: Stiller Pond | | Sample Size: 1.01 L | | QC Batch: B7D0145 | | Date Extracted: 28-Apr-2017 7:30 | |
| Date Collected: 25-Apr-2017 11:40 | | | | Date Analyzed: 28-Apr-17 21:24 Column: ZB-1 | | | |
| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
| IS 13C-PCB-1 | 48.0 | 5 -145 | | 13C-PCB-170 | 91.3 | 10 -145 | |
| 13C-PCB-3 | 50.5 | 5 -145 | | 13C-PCB-180 | 92.5 | 10 -145 | |
| 13C-PCB-4 | 50.8 | 5 -145 | | 13C-PCB-188 | 97.8 | 10 -145 | |
| 13C-PCB-11 | 66.5 | 5 -145 | | 13C-PCB-189 | 89.5 | 10 -145 | |
| 13C-PCB-9 | 55.7 | 5 -145 | | 13C-PCB-194 | 96.1 | 10 -145 | |
| 13C-PCB-19 | 78.5 | 5 -145 | | 13C-PCB-202 | 113 | 10 -145 | |
| 13C-PCB-28 | 91.5 | 5 -145 | | 13C-PCB-206 | 76.1 | 10 -145 | |
| 13C-PCB-32 | 86.6 | 5 -145 | | 13C-PCB-208 | 73.3 | 10 -145 | |
| 13C-PCB-37 | 90.7 | 5 -145 | | 13C-PCB-209 | 74.1 | 10 -145 | |
| 13C-PCB-47 | 83.5 | 5 -145 | | CRS 13C-PCB-79 | 92.3 | 10 -145 | |
| 13C-PCB-52 | 84.0 | 5 -145 | | 13C-PCB-178 | 95.1 | 10 -145 | |
| 13C-PCB-54 | 71.0 | 5 -145 | | | | | |
| 13C-PCB-70 | 89.5 | 5 -145 | | | | | |
| 13C-PCB-77 | 94.0 | 10 -145 | | | | | |
| 13C-PCB-80 | 89.3 | 10 -145 | | | | | |
| 13C-PCB-81 | 91.4 | 10 -145 | | | | | |
| 13C-PCB-95 | 90.7 | 10 -145 | | | | | |
| 13C-PCB-97 | 92.3 | 10 -145 | | | | | |
| 13C-PCB-101 | 91.0 | 10 -145 | | | | | |
| 13C-PCB-104 | 85.6 | 10 -145 | | | | | |
| 13C-PCB-105 | 116 | 10 -145 | | | | | |
| 13C-PCB-114 | 117 | 10 -145 | | | | | |
| 13C-PCB-118 | 93.7 | 10 -145 | | | | | |
| 13C-PCB-123 | 92.5 | 10 -145 | | | | | |
| 13C-PCB-126 | 115 | 10 -145 | | | | | |
| 13C-PCB-127 | 117 | 10 -145 | | | | | |
| 13C-PCB-138 | 96.1 | 10 -145 | | | | | |
| 13C-PCB-141 | 95.9 | 10 -145 | | | | | |
| 13C-PCB-153 | 97.2 | 10 -145 | | | | | |
| 13C-PCB-155 | 98.6 | 10 -145 | | | | | |
| 13C-PCB-156 | 92.7 | 10 -145 | | | | | |
| 13C-PCB-157 | 93.4 | 10 -145 | | | | | |
| 13C-PCB-159 | 93.8 | 10 -145 | | | | | |
| 13C-PCB-167 | 94.4 | 10 -145 | | | | | |
| 13C-PCB-169 | 90.6 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW-145 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|----------------------------------|------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700536-03 | | Date Received: 26-Apr-2017 9:52 | | |
| Project: Stiller Pond | | | Sample Size: 1.02 L | | QC Batch: B7D0145 | | Date Extracted: 28-Apr-2017 7:30 | | |
| Date Collected: 25-Apr-2017 12:00 | | | | | Date Analyzed: 28-Apr-17 22:29 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | 19.0 | | | | PCB-44 | 6.38 | | | |
| PCB-2 | 1.29 | | | J | PCB-45 | 2.67 | | | J |
| PCB-3 | 6.52 | | | | PCB-46 | 1.09 | | | J |
| PCB-4/10 | 58.5 | | | | PCB-47 | 4.75 | | | J, B |
| PCB-5/8 | 125 | | | | PCB-48/75 | 1.57 | | | J |
| PCB-6 | 23.9 | | | | PCB-50 | ND | 0.867 | | |
| PCB-7/9 | 11.0 | | | | PCB-51 | 1.38 | | | J |
| PCB-11 | 15.3 | | | B | PCB-52/69 | 6.19 | | 1.45 | J |
| PCB-12/13 | ND | 3.29 | | | PCB-53 | ND | | | |
| PCB-14 | ND | 0.929 | | | PCB-54 | ND | 0.693 | | |
| PCB-15 | 18.1 | | | | PCB-55 | ND | 0.513 | | |
| PCB-16/32 | 33.0 | | | | PCB-56/60 | 1.64 | | | J |
| PCB-17 | 17.1 | | | | PCB-57 | ND | 0.560 | | |
| PCB-18 | 49.5 | | | | PCB-58 | ND | 0.537 | | |
| PCB-19 | 7.01 | | | | PCB-61/70 | 2.36 | | | J |
| PCB-20/21/33 | 33.1 | | | | PCB-62 | ND | 0.599 | | |
| PCB-22 | 15.6 | | | | PCB-63 | ND | 0.526 | | |
| PCB-23 | ND | 0.858 | | | PCB-65 | ND | 0.634 | | |
| PCB-24/27 | 3.72 | | | J | PCB-66/76 | 2.10 | | | J |
| PCB-25 | 3.59 | | | J | PCB-67 | ND | 0.567 | | |
| PCB-26 | 7.03 | | | | PCB-68 | 0.801 | | | J |
| PCB-28 | 32.4 | | | | PCB-73 | ND | 0.645 | | |
| PCB-29 | ND | 0.826 | | | PCB-74 | 1.07 | | | J |
| PCB-30 | ND | 0.484 | | | PCB-77 | ND | 0.547 | | |
| PCB-31 | 35.1 | | | | PCB-78 | ND | 0.548 | | |
| PCB-34 | ND | 0.821 | | | PCB-79 | ND | 0.522 | | |
| PCB-35 | ND | 1.04 | | | PCB-80 | ND | 0.470 | | |
| PCB-36 | ND | 0.993 | | | PCB-81 | ND | 0.512 | | |
| PCB-37 | 3.48 | | | J | PCB-82 | ND | 1.77 | | |
| PCB-38 | ND | 1.03 | | | PCB-83 | ND | 0.943 | | |
| PCB-39 | ND | 0.925 | | | PCB-84/92 | ND | 1.35 | | |
| PCB-40 | ND | | 0.916 | | PCB-85/116 | ND | 1.41 | | |
| PCB-41/64/71/72 | 5.38 | | | J | PCB-86 | ND | 1.61 | | |
| PCB-42/59 | ND | | 1.93 | | PCB-87/117/125 | ND | 1.01 | | |
| PCB-43/49 | 3.98 | | | J | PCB-88/91 | ND | 1.35 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

| Sample ID: GW-145 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700536-03 | | Date Received: 26-Apr-2017 9:52 | | |
| Project: Stiller Pond | | | Sample Size: 1.02 L | | QC Batch: B7D0145 | | Date Extracted: 28-Apr-2017 7:30 | | |
| Date Collected: 25-Apr-2017 12:00 | | | | | Date Analyzed: 28-Apr-17 22:29 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 1.43 | | | PCB-137 | ND | 0.724 | | |
| PCB-90/101 | ND | 1.45 | | | PCB-138/163/164 | ND | | 0.735 | |
| PCB-93 | ND | 1.51 | | | PCB-139/149 | 0.857 | | | J |
| PCB-94 | ND | 1.42 | | | PCB-140 | ND | 1.24 | | |
| PCB-95/98/102 | ND | 1.54 | | | PCB-141 | ND | 0.738 | | |
| PCB-96 | ND | 1.10 | | | PCB-142 | ND | 0.854 | | |
| PCB-97 | ND | 1.23 | | | PCB-144 | ND | 1.12 | | |
| PCB-99 | ND | 1.18 | | | PCB-145 | ND | 0.920 | | |
| PCB-100 | ND | 1.20 | | | PCB-146/165 | ND | 0.664 | | |
| PCB-103 | ND | 1.19 | | | PCB-147 | ND | 1.27 | | |
| PCB-104 | ND | 0.965 | | | PCB-148 | ND | 1.22 | | |
| PCB-105 | ND | 0.453 | | | PCB-150 | ND | 0.900 | | |
| PCB-106/118 | ND | 0.964 | | | PCB-151 | ND | 1.20 | | |
| PCB-107/109 | ND | 1.01 | | | PCB-152 | ND | 0.885 | | |
| PCB-108/112 | ND | 1.13 | | | PCB-153 | ND | 0.658 | | |
| PCB-110 | ND | 0.976 | | | PCB-154 | ND | 1.10 | | |
| PCB-111/115 | ND | 0.863 | | | PCB-155 | ND | 0.840 | | |
| PCB-113 | ND | 1.06 | | | PCB-156 | ND | 0.567 | | |
| PCB-114 | ND | 0.880 | | | PCB-157 | ND | 0.590 | | |
| PCB-119 | ND | 0.857 | | | PCB-158/160 | ND | 0.571 | | |
| PCB-120 | ND | 0.794 | | | PCB-159 | ND | 0.558 | | |
| PCB-121 | ND | 0.940 | | | PCB-166 | ND | 0.608 | | |
| PCB-122 | ND | 0.970 | | | PCB-167 | ND | 0.591 | | |
| PCB-123 | ND | 1.01 | | | PCB-168 | ND | 0.535 | | |
| PCB-124 | ND | 1.01 | | | PCB-169 | ND | 0.697 | | |
| PCB-126 | ND | 1.06 | | | PCB-170 | ND | 0.599 | | |
| PCB-127 | ND | 0.984 | | | PCB-171 | ND | 0.591 | | |
| PCB-128/162 | ND | 0.689 | | | PCB-172 | ND | 0.616 | | |
| PCB-129 | ND | 0.854 | | | PCB-173 | ND | 0.728 | | |
| PCB-130 | ND | 0.897 | | | PCB-174 | ND | 0.640 | | |
| PCB-131/133 | ND | 0.827 | | | PCB-175 | ND | 0.541 | | |
| PCB-132/161 | ND | 0.665 | | | PCB-176 | ND | 0.399 | | |
| PCB-134/143 | ND | 0.820 | | | PCB-177 | ND | 0.687 | | |
| PCB-135 | ND | 1.25 | | | PCB-178 | ND | 0.551 | | |
| PCB-136 | ND | 0.861 | | | PCB-179 | ND | 0.432 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Sample ID: GW-145

EPA Method 1668C

| Client Data | | Sample Data | | Laboratory Data | | | |
|-----------------|-------------------------------------|--------------|---------|-----------------|-----------------|-----------------|------------------|
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700536-03 | Date Received: | 26-Apr-2017 9:52 |
| Project: | Stiller Pond | Sample Size: | 1.02 L | QC Batch: | B7D0145 | Date Extracted: | 28-Apr-2017 7:30 |
| Date Collected: | 25-Apr-2017 12:00 | | | Date Analyzed : | 28-Apr-17 22:29 | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|-------|------------|--------------|--------------|-------|-------|------------|
| PCB-180 | ND | 0.599 | | | Total octaCB | ND | | 0.637 | |
| PCB-181 | ND | 0.607 | | | Total nonaCB | ND | 0.547 | | |
| PCB-182/187 | ND | 0.501 | | | DecaCB | ND | 0.464 | | |
| PCB-183 | ND | 0.465 | | | Total PCB | 561 | | | |
| PCB-184 | ND | 0.431 | | | | | | | |
| PCB-185 | ND | 0.612 | | | | | | | |
| PCB-186 | ND | 0.397 | | | | | | | |
| PCB-188 | ND | 0.396 | | | | | | | |
| PCB-189 | ND | 0.405 | | | | | | | |
| PCB-190 | ND | 0.431 | | | | | | | |
| PCB-191 | ND | 0.447 | | | | | | | |
| PCB-192 | ND | 0.476 | | | | | | | |
| PCB-193 | ND | 0.458 | | | | | | | |
| PCB-194 | ND | | 0.637 | | | | | | |
| PCB-195 | ND | 0.613 | | | | | | | |
| PCB-196/203 | ND | 0.909 | | | | | | | |
| PCB-197 | ND | 0.654 | | | | | | | |
| PCB-198 | ND | 0.954 | | | | | | | |
| PCB-199 | ND | 1.04 | | | | | | | |
| PCB-200 | ND | 0.703 | | | | | | | |
| PCB-201 | ND | 0.691 | | | | | | | |
| PCB-202 | ND | 0.749 | | | | | | | |
| PCB-204 | ND | 0.735 | | | | | | | |
| PCB-205 | ND | 0.432 | | | | | | | |
| PCB-206 | ND | 0.547 | | | | | | | |
| PCB-207 | ND | 0.339 | | | | | | | |
| PCB-208 | ND | 0.346 | | | | | | | |
| PCB-209 | ND | 0.464 | | | | | | | |
| Total monoCB | 26.8 | | | | | | | | |
| Total diCB | 252 | | | | | | | | |
| Total triCB | 241 | | | | | | | | |
| Total tetraCB | 41.4 | | 45.7 | | | | | | |
| Total pentaCB | ND | 1.77 | | | | | | | |
| Total hexaCB | 0.857 | | 1.59 | | | | | | |
| Total heptaCB | ND | 0.728 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

| Sample ID: GW-145 | | | | EPA Method 1668C | | | |
|---|------|---------------------|------------|---|------|----------------------------------|------------|
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: Walla Walla Basin Watershed Council | | Matrix: Aqueous | | Lab Sample: 1700536-03 | | Date Received: 26-Apr-2017 9:52 | |
| Project: Still Pond | | Sample Size: 1.02 L | | QC Batch: B7D0145 | | Date Extracted: 28-Apr-2017 7:30 | |
| Date Collected: 25-Apr-2017 12:00 | | | | Date Analyzed: 28-Apr-17 22:29 Column: ZB-1 | | | |
| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
| IS 13C-PCB-1 | 49.9 | 5 -145 | | 13C-PCB-170 | 90.9 | 10 -145 | |
| 13C-PCB-3 | 51.5 | 5 -145 | | 13C-PCB-180 | 89.6 | 10 -145 | |
| 13C-PCB-4 | 52.5 | 5 -145 | | 13C-PCB-188 | 96.0 | 10 -145 | |
| 13C-PCB-11 | 65.2 | 5 -145 | | 13C-PCB-189 | 88.1 | 10 -145 | |
| 13C-PCB-9 | 55.7 | 5 -145 | | 13C-PCB-194 | 90.7 | 10 -145 | |
| 13C-PCB-19 | 76.3 | 5 -145 | | 13C-PCB-202 | 108 | 10 -145 | |
| 13C-PCB-28 | 68.6 | 5 -145 | | 13C-PCB-206 | 70.6 | 10 -145 | |
| 13C-PCB-32 | 83.5 | 5 -145 | | 13C-PCB-208 | 70.4 | 10 -145 | |
| 13C-PCB-37 | 77.1 | 5 -145 | | 13C-PCB-209 | 69.2 | 10 -145 | |
| 13C-PCB-47 | 83.4 | 5 -145 | | CRS 13C-PCB-79 | 92.6 | 10 -145 | |
| 13C-PCB-52 | 79.8 | 5 -145 | | 13C-PCB-178 | 95.9 | 10 -145 | |
| 13C-PCB-54 | 68.3 | 5 -145 | | | | | |
| 13C-PCB-70 | 86.1 | 5 -145 | | | | | |
| 13C-PCB-77 | 88.4 | 10 -145 | | | | | |
| 13C-PCB-80 | 86.1 | 10 -145 | | | | | |
| 13C-PCB-81 | 88.2 | 10 -145 | | | | | |
| 13C-PCB-95 | 86.4 | 10 -145 | | | | | |
| 13C-PCB-97 | 91.0 | 10 -145 | | | | | |
| 13C-PCB-101 | 90.5 | 10 -145 | | | | | |
| 13C-PCB-104 | 82.9 | 10 -145 | | | | | |
| 13C-PCB-105 | 113 | 10 -145 | | | | | |
| 13C-PCB-114 | 116 | 10 -145 | | | | | |
| 13C-PCB-118 | 87.6 | 10 -145 | | | | | |
| 13C-PCB-123 | 87.8 | 10 -145 | | | | | |
| 13C-PCB-126 | 115 | 10 -145 | | | | | |
| 13C-PCB-127 | 114 | 10 -145 | | | | | |
| 13C-PCB-138 | 93.4 | 10 -145 | | | | | |
| 13C-PCB-141 | 92.1 | 10 -145 | | | | | |
| 13C-PCB-153 | 93.4 | 10 -145 | | | | | |
| 13C-PCB-155 | 98.0 | 10 -145 | | | | | |
| 13C-PCB-156 | 90.5 | 10 -145 | | | | | |
| 13C-PCB-157 | 91.0 | 10 -145 | | | | | |
| 13C-PCB-159 | 92.1 | 10 -145 | | | | | |
| 13C-PCB-167 | 92.0 | 10 -145 | | | | | |
| 13C-PCB-169 | 86.6 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW-146 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|----------------------------------|------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700536-04 | | Date Received: 26-Apr-2017 9:52 | | |
| Project: Stiller Pond | | | Sample Size: 1.02 L | | QC Batch: B7D0145 | | Date Extracted: 28-Apr-2017 7:30 | | |
| Date Collected: 25-Apr-2017 11:15 | | | | | Date Analyzed: 28-Apr-17 23:33 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | 20.1 | | | | PCB-44 | 6.02 | | | |
| PCB-2 | ND | | 1.13 | | PCB-45 | 2.65 | | | J |
| PCB-3 | 6.72 | | | | PCB-46 | 1.21 | | | J |
| PCB-4/10 | 60.1 | | | | PCB-47 | 7.10 | | | B |
| PCB-5/8 | 127 | | | | PCB-48/75 | 1.65 | | | J |
| PCB-6 | 22.4 | | | | PCB-50 | ND | 0.839 | | |
| PCB-7/9 | 10.1 | | | | PCB-51 | 2.11 | | | J |
| PCB-11 | 13.8 | | | B | PCB-52/69 | 5.93 | | | J |
| PCB-12/13 | ND | 3.11 | | | PCB-53 | 2.04 | | | J |
| PCB-14 | ND | 0.972 | | | PCB-54 | ND | 0.671 | | |
| PCB-15 | 20.7 | | | | PCB-55 | ND | 0.507 | | |
| PCB-16/32 | 33.5 | | | | PCB-56/60 | 1.90 | | | J |
| PCB-17 | 18.3 | | | | PCB-57 | ND | 0.566 | | |
| PCB-18 | 51.7 | | | | PCB-58 | ND | 0.543 | | |
| PCB-19 | 7.40 | | | | PCB-61/70 | 2.82 | | | J |
| PCB-20/21/33 | 32.0 | | | | PCB-62 | ND | 0.605 | | |
| PCB-22 | 16.3 | | | | PCB-63 | ND | 0.532 | | |
| PCB-23 | ND | 0.840 | | | PCB-65 | ND | 0.640 | | |
| PCB-24/27 | 3.93 | | | J | PCB-66/76 | 2.13 | | | J |
| PCB-25 | 3.77 | | | J | PCB-67 | ND | 0.574 | | |
| PCB-26 | 6.50 | | | | PCB-68 | 1.01 | | | J |
| PCB-28 | 35.7 | | | | PCB-73 | ND | 0.592 | | |
| PCB-29 | ND | 0.809 | | | PCB-74 | 1.41 | | | J |
| PCB-30 | ND | 0.495 | | | PCB-77 | ND | 0.603 | | |
| PCB-31 | 31.8 | | | | PCB-78 | ND | 0.572 | | |
| PCB-34 | ND | 0.804 | | | PCB-79 | ND | 0.516 | | |
| PCB-35 | ND | 1.04 | | | PCB-80 | ND | 0.465 | | |
| PCB-36 | ND | 0.986 | | | PCB-81 | ND | 0.535 | | |
| PCB-37 | 4.36 | | | J | PCB-82 | ND | 1.53 | | |
| PCB-38 | ND | 1.02 | | | PCB-83 | ND | 0.866 | | |
| PCB-39 | ND | 0.918 | | | PCB-84/92 | ND | 1.14 | | |
| PCB-40 | 1.50 | | | J | PCB-85/116 | ND | 1.07 | | |
| PCB-41/64/71/72 | 5.11 | | | J | PCB-86 | ND | 1.48 | | |
| PCB-42/59 | 2.65 | | | J | PCB-87/117/125 | ND | 0.929 | | |
| PCB-43/49 | 4.73 | | | J | PCB-88/91 | ND | 1.12 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

| Sample ID: GW-146 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700536-04 | | Date Received: 26-Apr-2017 9:52 | | |
| Project: Stiller Pond | | | Sample Size: 1.02 L | | QC Batch: B7D0145 | | Date Extracted: 28-Apr-2017 7:30 | | |
| Date Collected: 25-Apr-2017 11:15 | | | | | Date Analyzed: 28-Apr-17 23:33 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 1.21 | | | PCB-137 | ND | 0.624 | | |
| PCB-90/101 | 1.58 | | | J | PCB-138/163/164 | ND | | 0.828 | |
| PCB-93 | ND | 1.26 | | | PCB-139/149 | ND | 0.759 | | |
| PCB-94 | ND | 1.18 | | | PCB-140 | ND | 1.26 | | |
| PCB-95/98/102 | ND | | 1.13 | | PCB-141 | ND | 0.636 | | |
| PCB-96 | ND | 0.907 | | | PCB-142 | ND | 0.765 | | |
| PCB-97 | ND | 1.13 | | | PCB-144 | ND | 1.14 | | |
| PCB-99 | ND | 1.00 | | | PCB-145 | ND | 0.934 | | |
| PCB-100 | ND | 0.993 | | | PCB-146/165 | ND | 0.595 | | |
| PCB-103 | ND | 0.986 | | | PCB-147 | ND | 1.29 | | |
| PCB-104 | ND | 0.798 | | | PCB-148 | ND | 1.23 | | |
| PCB-105 | ND | 0.443 | | | PCB-150 | ND | 0.914 | | |
| PCB-106/118 | ND | 0.881 | | | PCB-151 | ND | 1.22 | | |
| PCB-107/109 | ND | 0.874 | | | PCB-152 | ND | 0.899 | | |
| PCB-108/112 | ND | 1.03 | | | PCB-153 | 0.793 | | | J |
| PCB-110 | ND | 0.880 | | | PCB-154 | ND | 1.12 | | |
| PCB-111/115 | ND | 0.792 | | | PCB-155 | ND | 0.854 | | |
| PCB-113 | ND | 0.896 | | | PCB-156 | ND | 0.509 | | |
| PCB-114 | ND | 0.936 | | | PCB-157 | ND | 0.518 | | |
| PCB-119 | ND | 0.787 | | | PCB-158/160 | ND | 0.514 | | |
| PCB-120 | ND | 0.729 | | | PCB-159 | ND | 0.482 | | |
| PCB-121 | ND | 0.782 | | | PCB-166 | ND | 0.525 | | |
| PCB-122 | ND | 1.03 | | | PCB-167 | ND | 0.520 | | |
| PCB-123 | ND | 0.876 | | | PCB-168 | ND | 0.480 | | |
| PCB-124 | ND | 0.870 | | | PCB-169 | ND | 0.584 | | |
| PCB-126 | ND | 1.14 | | | PCB-170 | ND | 0.472 | | |
| PCB-127 | ND | 1.09 | | | PCB-171 | ND | 0.459 | | |
| PCB-128/162 | ND | 0.595 | | | PCB-172 | ND | 0.479 | | |
| PCB-129 | ND | 0.769 | | | PCB-173 | ND | 0.566 | | |
| PCB-130 | ND | 0.773 | | | PCB-174 | ND | 0.497 | | |
| PCB-131/133 | ND | 0.741 | | | PCB-175 | ND | 0.457 | | |
| PCB-132/161 | ND | 0.596 | | | PCB-176 | ND | 0.336 | | |
| PCB-134/143 | ND | 0.735 | | | PCB-177 | ND | 0.534 | | |
| PCB-135 | ND | 1.27 | | | PCB-178 | ND | 0.465 | | |
| PCB-136 | ND | 0.875 | | | PCB-179 | ND | 0.365 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Sample ID: GW-146

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700536-04 |
| Project: | Stiller Pond | Sample Size: | 1.02 L | Date Received: | 26-Apr-2017 9:52 |
| Date Collected: | 25-Apr-2017 11:15 | | | QC Batch: | B7D0145 |
| | | | | Date Analyzed: | 28-Apr-17 23:33 |
| | | | | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|------|------------|--------------|--------------|-------|------|------------|
| PCB-180 | ND | 0.466 | | | Total octaCB | 0.569 | | | |
| PCB-181 | ND | 0.472 | | | Total nonaCB | ND | 0.619 | | |
| PCB-182/187 | ND | 0.422 | | | DecaCB | ND | 0.382 | | |
| PCB-183 | ND | 0.392 | | | Total PCB | 581 | | | |
| PCB-184 | ND | 0.364 | | | | | | | |
| PCB-185 | ND | 0.476 | | | | | | | |
| PCB-186 | ND | 0.335 | | | | | | | |
| PCB-188 | ND | 0.334 | | | | | | | |
| PCB-189 | ND | 0.330 | | | | | | | |
| PCB-190 | ND | 0.339 | | | | | | | |
| PCB-191 | ND | 0.347 | | | | | | | |
| PCB-192 | ND | 0.370 | | | | | | | |
| PCB-193 | ND | 0.356 | | | | | | | |
| PCB-194 | 0.569 | | | J | | | | | |
| PCB-195 | ND | 0.664 | | | | | | | |
| PCB-196/203 | ND | 0.851 | | | | | | | |
| PCB-197 | ND | 0.612 | | | | | | | |
| PCB-198 | ND | 0.893 | | | | | | | |
| PCB-199 | ND | 0.970 | | | | | | | |
| PCB-200 | ND | 0.658 | | | | | | | |
| PCB-201 | ND | 0.647 | | | | | | | |
| PCB-202 | ND | 0.701 | | | | | | | |
| PCB-204 | ND | 0.688 | | | | | | | |
| PCB-205 | ND | 0.468 | | | | | | | |
| PCB-206 | ND | 0.619 | | | | | | | |
| PCB-207 | ND | 0.361 | | | | | | | |
| PCB-208 | ND | 0.368 | | | | | | | |
| PCB-209 | ND | 0.382 | | | | | | | |
| Total monoCB | 26.8 | | 28.0 | | | | | | |
| Total diCB | 255 | | | | | | | | |
| Total triCB | 245 | | | | | | | | |
| Total tetraCB | 52.0 | | | | | | | | |
| Total pentaCB | 1.58 | | 2.71 | | | | | | |
| Total hexaCB | 0.793 | | 1.62 | | | | | | |
| Total heptaCB | ND | 0.566 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: GW-146

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700536-04 |
| Project: | Stiller Pond | Sample Size: | 1.02 L | Date Received: | 26-Apr-2017 9:52 |
| Date Collected: | 25-Apr-2017 11:15 | | | QC Batch: | B7D0145 |
| | | | | Date Analyzed: | 28-Apr-17 23:33 |
| | | | | Column: | ZB-1 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 64.0 | 5 -145 | | 13C-PCB-170 | 94.3 | 10 -145 | |
| 13C-PCB-3 | 64.9 | 5 -145 | | 13C-PCB-180 | 94.5 | 10 -145 | |
| 13C-PCB-4 | 62.5 | 5 -145 | | 13C-PCB-188 | 96.0 | 10 -145 | |
| 13C-PCB-11 | 70.0 | 5 -145 | | 13C-PCB-189 | 91.5 | 10 -145 | |
| 13C-PCB-9 | 63.3 | 5 -145 | | 13C-PCB-194 | 94.7 | 10 -145 | |
| 13C-PCB-19 | 85.9 | 5 -145 | | 13C-PCB-202 | 114 | 10 -145 | |
| 13C-PCB-28 | 82.3 | 5 -145 | | 13C-PCB-206 | 73.2 | 10 -145 | |
| 13C-PCB-32 | 88.1 | 5 -145 | | 13C-PCB-208 | 73.0 | 10 -145 | |
| 13C-PCB-37 | 83.2 | 5 -145 | | 13C-PCB-209 | 71.9 | 10 -145 | |
| 13C-PCB-47 | 86.7 | 5 -145 | | CRS 13C-PCB-79 | 95.0 | 10 -145 | |
| 13C-PCB-52 | 85.7 | 5 -145 | | 13C-PCB-178 | 100 | 10 -145 | |
| 13C-PCB-54 | 74.6 | 5 -145 | | | | | |
| 13C-PCB-70 | 89.6 | 5 -145 | | | | | |
| 13C-PCB-77 | 91.0 | 10 -145 | | | | | |
| 13C-PCB-80 | 90.3 | 10 -145 | | | | | |
| 13C-PCB-81 | 90.3 | 10 -145 | | | | | |
| 13C-PCB-95 | 90.8 | 10 -145 | | | | | |
| 13C-PCB-97 | 92.9 | 10 -145 | | | | | |
| 13C-PCB-101 | 92.6 | 10 -145 | | | | | |
| 13C-PCB-104 | 89.4 | 10 -145 | | | | | |
| 13C-PCB-105 | 115 | 10 -145 | | | | | |
| 13C-PCB-114 | 115 | 10 -145 | | | | | |
| 13C-PCB-118 | 86.3 | 10 -145 | | | | | |
| 13C-PCB-123 | 85.6 | 10 -145 | | | | | |
| 13C-PCB-126 | 114 | 10 -145 | | | | | |
| 13C-PCB-127 | 116 | 10 -145 | | | | | |
| 13C-PCB-138 | 94.5 | 10 -145 | | | | | |
| 13C-PCB-141 | 94.2 | 10 -145 | | | | | |
| 13C-PCB-153 | 94.1 | 10 -145 | | | | | |
| 13C-PCB-155 | 99.4 | 10 -145 | | | | | |
| 13C-PCB-156 | 92.2 | 10 -145 | | | | | |
| 13C-PCB-157 | 93.7 | 10 -145 | | | | | |
| 13C-PCB-159 | 93.6 | 10 -145 | | | | | |
| 13C-PCB-167 | 94.2 | 10 -145 | | | | | |
| 13C-PCB-169 | 91.5 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

Sample ID: GW-147

EPA Method 1668C

| Client Data | | Sample Data | | Laboratory Data | | | |
|-----------------|-------------------------------------|--------------|---------|-----------------|-----------------|-----------------|------------------|
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700536-05 | Date Received: | 26-Apr-2017 9:52 |
| Project: | Stiller Pond | Sample Size: | 1.03 L | QC Batch: | B7D0145 | Date Extracted: | 28-Apr-2017 7:30 |
| Date Collected: | 25-Apr-2017 10:25 | | | Date Analyzed: | 29-Apr-17 00:38 | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|-----------------|--------------|-------|------|------------|----------------|--------------|-------|-------|------------|
| PCB-1 | 24.7 | | | | PCB-44 | 8.89 | | | |
| PCB-2 | 1.27 | | | J | PCB-45 | 3.35 | | | J |
| PCB-3 | 7.88 | | | | PCB-46 | 1.69 | | | J |
| PCB-4/10 | 72.4 | | | | PCB-47 | 7.09 | | | B |
| PCB-5/8 | 143 | | | | PCB-48/75 | 2.28 | | | J |
| PCB-6 | 27.0 | | | | PCB-50 | ND | 0.610 | | |
| PCB-7/9 | 14.2 | | | | PCB-51 | 1.91 | | | J |
| PCB-11 | 14.7 | | | B | PCB-52/69 | 7.95 | | | J |
| PCB-12/13 | ND | 3.75 | | | PCB-53 | 2.81 | | | J |
| PCB-14 | ND | 1.28 | | | PCB-54 | ND | 0.488 | | |
| PCB-15 | 26.9 | | | | PCB-55 | ND | 0.338 | | |
| PCB-16/32 | 42.4 | | | | PCB-56/60 | 2.42 | | | J |
| PCB-17 | 22.0 | | | | PCB-57 | ND | 0.380 | | |
| PCB-18 | 63.5 | | | | PCB-58 | ND | 0.364 | | |
| PCB-19 | 8.63 | | | | PCB-61/70 | 3.13 | | | J |
| PCB-20/21/33 | 42.7 | | | | PCB-62 | ND | 0.420 | | |
| PCB-22 | 21.5 | | | | PCB-63 | ND | 0.357 | | |
| PCB-23 | ND | 0.687 | | | PCB-65 | ND | 0.444 | | |
| PCB-24/27 | 4.87 | | | J | PCB-66/76 | 2.44 | | | J |
| PCB-25 | 4.77 | | | J | PCB-67 | ND | 0.385 | | |
| PCB-26 | 8.84 | | | | PCB-68 | 1.11 | | | J |
| PCB-28 | 44.1 | | | | PCB-73 | ND | 0.408 | | |
| PCB-29 | ND | 0.661 | | | PCB-74 | 1.54 | | | J |
| PCB-30 | ND | 0.392 | | | PCB-77 | ND | 0.373 | | |
| PCB-31 | 43.5 | | | | PCB-78 | ND | 0.384 | | |
| PCB-34 | ND | 0.657 | | | PCB-79 | ND | 0.344 | | |
| PCB-35 | ND | 0.781 | | | PCB-80 | ND | 0.310 | | |
| PCB-36 | ND | 0.743 | | | PCB-81 | ND | 0.359 | | |
| PCB-37 | 5.45 | | | | PCB-82 | ND | 1.17 | | |
| PCB-38 | ND | 0.771 | | | PCB-83 | ND | 0.699 | | |
| PCB-39 | ND | 0.691 | | | PCB-84/92 | ND | | 0.521 | |
| PCB-40 | 2.09 | | | J | PCB-85/116 | ND | 0.861 | | |
| PCB-41/64/71/72 | 7.34 | | | J | PCB-86 | ND | 1.19 | | |
| PCB-42/59 | 3.27 | | | J | PCB-87/117/125 | ND | 0.875 | | |
| PCB-43/49 | 5.81 | | | J | PCB-88/91 | ND | 0.901 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

Sample ID: GW-147

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700536-05 |
| Project: | Stiller Pond | Sample Size: | 1.03 L | QC Batch: | B7D0145 |
| Date Collected: | 25-Apr-2017 10:25 | | | Date Received: | 26-Apr-2017 9:52 |
| | | | | Date Extracted: | 28-Apr-2017 7:30 |
| | | | | Date Analyzed: | 29-Apr-17 00:38 Column: ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|------|------------|-----------------|--------------|-------|------|------------|
| PCB-89 | ND | 0.988 | | | PCB-137 | ND | 0.503 | | |
| PCB-90/101 | 1.42 | | | J | PCB-138/163/164 | 0.646 | | | J |
| PCB-93 | ND | 1.01 | | | PCB-139/149 | ND | 0.563 | | |
| PCB-94 | ND | 0.950 | | | PCB-140 | ND | 0.872 | | |
| PCB-95/98/102 | 1.66 | | | J | PCB-141 | ND | 0.512 | | |
| PCB-96 | ND | 0.723 | | | PCB-142 | ND | 0.611 | | |
| PCB-97 | ND | 0.915 | | | PCB-144 | ND | 0.788 | | |
| PCB-99 | ND | 0.819 | | | PCB-145 | ND | 0.648 | | |
| PCB-100 | ND | 0.792 | | | PCB-146/165 | ND | 0.475 | | |
| PCB-103 | ND | 0.786 | | | PCB-147 | ND | 0.896 | | |
| PCB-104 | ND | 0.636 | | | PCB-148 | ND | 0.856 | | |
| PCB-105 | ND | 0.410 | | | PCB-150 | ND | 0.634 | | |
| PCB-106/118 | 0.732 | | | J | PCB-151 | ND | 0.847 | | |
| PCB-107/109 | ND | 0.672 | | | PCB-152 | ND | 0.623 | | |
| PCB-108/112 | ND | 0.835 | | | PCB-153 | ND | 0.462 | | |
| PCB-110 | 1.38 | | | J | PCB-154 | ND | 0.778 | | |
| PCB-111/115 | ND | 0.640 | | | PCB-155 | ND | 0.592 | | |
| PCB-113 | ND | 0.733 | | | PCB-156 | ND | 0.408 | | |
| PCB-114 | ND | 0.627 | | | PCB-157 | ND | 0.418 | | |
| PCB-119 | ND | 0.636 | | | PCB-158/160 | ND | 0.401 | | |
| PCB-120 | ND | 0.588 | | | PCB-159 | ND | 0.376 | | |
| PCB-121 | ND | 0.629 | | | PCB-166 | ND | 0.409 | | |
| PCB-122 | ND | 0.691 | | | PCB-167 | ND | 0.414 | | |
| PCB-123 | ND | 0.674 | | | PCB-168 | ND | 0.383 | | |
| PCB-124 | ND | 0.669 | | | PCB-169 | ND | 0.480 | | |
| PCB-126 | ND | 0.710 | | | PCB-170 | ND | 0.404 | | |
| PCB-127 | ND | 0.699 | | | PCB-171 | ND | 0.380 | | |
| PCB-128/162 | ND | 0.464 | | | PCB-172 | ND | 0.396 | | |
| PCB-129 | ND | 0.600 | | | PCB-173 | ND | 0.468 | | |
| PCB-130 | ND | 0.623 | | | PCB-174 | ND | 0.411 | | |
| PCB-131/133 | ND | 0.591 | | | PCB-175 | ND | 0.355 | | |
| PCB-132/161 | ND | 0.476 | | | PCB-176 | ND | 0.261 | | |
| PCB-134/143 | ND | 0.587 | | | PCB-177 | ND | 0.441 | | |
| PCB-135 | ND | 0.878 | | | PCB-178 | ND | 0.361 | | |
| PCB-136 | ND | 0.607 | | | PCB-179 | ND | 0.283 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Sample ID: GW-147

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700536-05 |
| Project: | Stiller Pond | Sample Size: | 1.03 L | Date Received: | 26-Apr-2017 9:52 |
| Date Collected: | 25-Apr-2017 10:25 | | | QC Batch: | B7D0145 |
| | | | | Date Analyzed : | 29-Apr-17 00:38 Column: ZB-1 |
| | | | | Date Extracted: | 28-Apr-2017 7:30 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|------|------------|--------------|--------------|-------|------|------------|
| PCB-180 | ND | 0.347 | | | Total octaCB | 0.532 | | | |
| PCB-181 | ND | 0.390 | | | Total nonaCB | ND | 0.396 | | |
| PCB-182/187 | ND | 0.328 | | | DecaCB | ND | 0.280 | | |
| PCB-183 | ND | 0.305 | | | Total PCB | 716 | | | |
| PCB-184 | ND | 0.283 | | | | | | | |
| PCB-185 | ND | 0.393 | | | | | | | |
| PCB-186 | ND | 0.260 | | | | | | | |
| PCB-188 | ND | 0.259 | | | | | | | |
| PCB-189 | ND | 0.283 | | | | | | | |
| PCB-190 | ND | 0.290 | | | | | | | |
| PCB-191 | ND | 0.287 | | | | | | | |
| PCB-192 | ND | 0.306 | | | | | | | |
| PCB-193 | ND | 0.294 | | | | | | | |
| PCB-194 | 0.532 | | | J | | | | | |
| PCB-195 | ND | 0.424 | | | | | | | |
| PCB-196/203 | ND | 0.764 | | | | | | | |
| PCB-197 | ND | 0.550 | | | | | | | |
| PCB-198 | ND | 0.801 | | | | | | | |
| PCB-199 | ND | 0.871 | | | | | | | |
| PCB-200 | ND | 0.591 | | | | | | | |
| PCB-201 | ND | 0.581 | | | | | | | |
| PCB-202 | ND | 0.630 | | | | | | | |
| PCB-204 | ND | 0.617 | | | | | | | |
| PCB-205 | ND | 0.299 | | | | | | | |
| PCB-206 | ND | 0.396 | | | | | | | |
| PCB-207 | ND | 0.254 | | | | | | | |
| PCB-208 | ND | 0.259 | | | | | | | |
| PCB-209 | ND | 0.280 | | | | | | | |
| Total monoCB | 33.9 | | | | | | | | |
| Total diCB | 299 | | | | | | | | |
| Total triCB | 312 | | | | | | | | |
| Total tetraCB | 65.1 | | | | | | | | |
| Total pentaCB | 5.19 | | 5.71 | | | | | | |
| Total hexaCB | 0.646 | | | | | | | | |
| Total heptaCB | ND | 0.468 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: GW-147

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700536-05 |
| Project: | Stiller Pond | Sample Size: | 1.03 L | Date Received: | 26-Apr-2017 9:52 |
| Date Collected: | 25-Apr-2017 10:25 | | | QC Batch: | B7D0145 |
| | | | | Date Analyzed: | 29-Apr-17 00:38 |
| | | | | Column: | ZB-1 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 52.2 | 5 -145 | | 13C-PCB-170 | 86.0 | 10 -145 | |
| 13C-PCB-3 | 52.8 | 5 -145 | | 13C-PCB-180 | 88.3 | 10 -145 | |
| 13C-PCB-4 | 51.3 | 5 -145 | | 13C-PCB-188 | 95.5 | 10 -145 | |
| 13C-PCB-11 | 62.8 | 5 -145 | | 13C-PCB-189 | 84.3 | 10 -145 | |
| 13C-PCB-9 | 53.9 | 5 -145 | | 13C-PCB-194 | 95.4 | 10 -145 | |
| 13C-PCB-19 | 70.9 | 5 -145 | | 13C-PCB-202 | 104 | 10 -145 | |
| 13C-PCB-28 | 73.2 | 5 -145 | | 13C-PCB-206 | 71.3 | 10 -145 | |
| 13C-PCB-32 | 78.1 | 5 -145 | | 13C-PCB-208 | 72.2 | 10 -145 | |
| 13C-PCB-37 | 81.6 | 5 -145 | | 13C-PCB-209 | 67.8 | 10 -145 | |
| 13C-PCB-47 | 88.4 | 5 -145 | | CRS 13C-PCB-79 | 92.4 | 10 -145 | |
| 13C-PCB-52 | 85.9 | 5 -145 | | 13C-PCB-178 | 102 | 10 -145 | |
| 13C-PCB-54 | 70.9 | 5 -145 | | | | | |
| 13C-PCB-70 | 91.3 | 5 -145 | | | | | |
| 13C-PCB-77 | 90.7 | 10 -145 | | | | | |
| 13C-PCB-80 | 91.0 | 10 -145 | | | | | |
| 13C-PCB-81 | 89.9 | 10 -145 | | | | | |
| 13C-PCB-95 | 92.9 | 10 -145 | | | | | |
| 13C-PCB-97 | 91.1 | 10 -145 | | | | | |
| 13C-PCB-101 | 91.6 | 10 -145 | | | | | |
| 13C-PCB-104 | 93.5 | 10 -145 | | | | | |
| 13C-PCB-105 | 121 | 10 -145 | | | | | |
| 13C-PCB-114 | 120 | 10 -145 | | | | | |
| 13C-PCB-118 | 93.8 | 10 -145 | | | | | |
| 13C-PCB-123 | 92.7 | 10 -145 | | | | | |
| 13C-PCB-126 | 119 | 10 -145 | | | | | |
| 13C-PCB-127 | 122 | 10 -145 | | | | | |
| 13C-PCB-138 | 96.3 | 10 -145 | | | | | |
| 13C-PCB-141 | 95.3 | 10 -145 | | | | | |
| 13C-PCB-153 | 95.9 | 10 -145 | | | | | |
| 13C-PCB-155 | 92.7 | 10 -145 | | | | | |
| 13C-PCB-156 | 92.2 | 10 -145 | | | | | |
| 13C-PCB-157 | 93.8 | 10 -145 | | | | | |
| 13C-PCB-159 | 96.5 | 10 -145 | | | | | |
| 13C-PCB-167 | 95.4 | 10 -145 | | | | | |
| 13C-PCB-169 | 87.3 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

DATA QUALIFIERS & ABBREVIATIONS

| | |
|--------------|--|
| B | This compound was also detected in the method blank. |
| D | Dilution |
| E | The associated compound concentration exceeded the calibration range of the instrument. |
| H | Recovery and/or RPD was outside laboratory acceptance limits. |
| I | Chemical Interference |
| J | The amount detected is below the Reporting Limit/LOQ. |
| M | Estimated Maximum Possible Concentration. (CA Region 2 projects only) |
| * | See Cover Letter |
| Conc. | Concentration |
| NA | Not applicable |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| Arkansas Department of Environmental Quality | 17-015-0 |
| California Department of Health – ELAP | 2892 |
| DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005 | 3091.01 |
| Florida Department of Health | E87777-18 |
| Hawaii Department of Health | N/A |
| Louisiana Department of Environmental Quality | 01977 |
| Maine Department of Health | 2016026 |
| Minnesota Department of Health | 1175673 |
| Nevada Division of Environmental Protection | CA004132017-1 |
| New Hampshire Environmental Accreditation Program | 207716 |
| New Jersey Department of Environmental Protection | CA003 |
| New York Department of Health | 11411 |
| Oregon Laboratory Accreditation Program | 4042-008 |
| Pennsylvania Department of Environmental Protection | 013 |
| Texas Commission on Environmental Quality | T104704189-17-8 |
| Virginia Department of General Services | 8621 |
| Washington Department of Ecology | C584 |
| Wisconsin Department of Natural Resources | 998036160 |

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

| MATRIX: Air | |
|--|--------|
| Description of Test | Method |
| Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans | EPA 23 |

| MATRIX: Biological Tissue | |
|---|----------------|
| Description of Test | Method |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

| MATRIX: Drinking Water | |
|--|----------|
| Description of Test | Method |
| 2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS | EPA 1613 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |

| MATRIX: Non-Potable Water | |
|---|----------------|
| Description of Test | Method |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Dioxin by GC/HRMS | EPA 613 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

| MATRIX: Solids | |
|---|-----------|
| Description of Test | Method |
| Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613 |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope | EPA 1613B |

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| | |
|---|----------------|
| Dilution GC/HRMS | |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

SAMPLE LOG-IN CHECKLIST



Vista Project #: 1700536 TAT Std

| | | | |
|------------------|----------------------------|---|----------------------|
| Samples Arrival: | Date/Time 4/26/17 0952 | Initials: WNS | Location: WR-2 |
| | | | Shelf/Rack: N/2 |
| Logged In: | Date/Time 04/26/17 1456 | Initials: AB | Location: WR-2 |
| | | | Shelf/Rack: A2 |
| Delivered By: | FedEx | <u>UPS</u> | On Trac |
| | | | DHL |
| | | | Hand Delivered |
| | | | Other |
| Preservation: | <u>Ice</u> | Blue Ice | Dry Ice |
| | | | None |
| Temp °C: 5.4 | (uncorrected) | Time: 0953 | Thermometer ID: IR-1 |
| Temp °C: 5.7 | (corrected) | Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |

| | YES | NO | NA |
|--|---|--------|------------------------------|
| Adequate Sample Volume Received? | ✓ | | |
| Holding Time Acceptable? | ✓ | | |
| Shipping Container(s) Intact? | ✓ | | |
| Shipping Custody Seals Intact? | ✓ | | |
| Shipping Documentation Present? | ✓ | | |
| Airbill | Trk # <u>TZ 626 3F7 01 0290 6289</u> | ✓ | |
| Sample Container Intact? | ✓ | | |
| Sample Custody Seals Intact? | | | ✓ |
| Chain of Custody / Sample Documentation Present? | ✓ | | |
| COC Anomaly/Sample Acceptance Form completed? | | ✓ | |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | | ✓ |
| Preservation Documented: | Na ₂ S ₂ O ₃ | Trizma | Yes No <u>NA</u> |
| Shipping Container | <u>Vista</u> | Client | <u>Retain</u> Return Dispose |

Comments:



| | | | | |
|----------------|----------------------------|--------------------------|-----------------------|-----------------------------|
| Burlington, WA | Corporate Laboratory (a) | 1620 S Walnut St | Burlington, WA 98233 | 800.755.9295 • 360.757.1400 |
| Bellingham, WA | Microbiology (b) | 805 Orchard Dr Ste 4 | Bellingham, WA 98225 | 360.715.1212 |
| Portland, OR | Microbiology/Chemistry (c) | 9150 SW Pioneer Ct Ste W | Wilsonville, OR 97070 | 503.682.7802 |
| Corvallis, OR | Microbiology (d) | 540 SW Third Street | Corvallis, OR 97333 | 541.753.4946 |

July 12, 2017

Page 1 of 1

Mr. Steve Patten
Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862

RE: 17-15327 - Stiller Pond 3rd Event 2017

Dear Mr. Steve Patten,

Your project: Stiller Pond 3rd Event 2017, was received on Thursday June 29, 2017.

All samples were analyzed within the accepted holding times and were appropriately preserved and analyzed according to approved analytical protocols, unless noted in the data or QC reports. The quality control data was within laboratory acceptance limits, unless specified in the data or QC reports.

If you have questions phone us at 800 755-9295.

Respectfully

A handwritten signature in blue ink that reads "Pat Miller".

Patrick Miller, MS
QA Officer

Enclosures: Data Report
QC Reports
Chain of Custody



Data Report

Client Name: Walla Walla Basin Watershed Council
810 South Main Street
Milton-Freewater, OR 97862


Reference Number: **17-15327**
Project: Stiller Pond 3rd Event 2017

Report Date: 7/12/17

Date Received: 6/29/17

Approved by: anp,bj,lrs

Authorized by:


Patrick Miller, MS
QA Officer

| Sample Description: GW-136 Stiller Pond | | | | | | | | | | Sample Date: 6/28/17 11:10 am | | | |
|---|------------------------------|--------|-------|--------|-----------------|-----|--------------------------|-----|----------|-------------------------------|---------------|---------|--|
| Lab Number: 35228 | | | | | Sample Comment: | | | | | Collected By: Steve Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment | |
| 7439-89-6 | IRON | 0.05 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 7/5/17 | ANP | 200.7_170705A | | |
| 14797-55-8 | NITRATE-N | 0.72 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 6/30/17 | BJ | I170629A | | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 173 | 10 | | mg/L | 1.0 | SM2540 C | a | 7/3/17 | HKL | TDS_170703 | | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.21 | 0.01 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 6/30/17 | LRS | OPHOS_170630 | | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.294 | 0.020 | 0.0026 | mg/L | 2.0 | SM4500-P F/SM4500-P B(5) | a | 7/6/17 | LRS | TPHOS_170706 | | |

| Sample Description: GW-145 Stiller Pond | | | | | | | | | | Sample Date: 6/28/17 11:30 am | | | |
|---|------------------------------|--------|-------|--------|-----------------|-----|--------------------------|-----|----------|-------------------------------|---------------|---------|--|
| Lab Number: 35229 | | | | | Sample Comment: | | | | | Collected By: Steve Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment | |
| 7439-89-6 | IRON | ND | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 7/5/17 | ANP | 200.7_170705A | | |
| 14797-55-8 | NITRATE-N | 2.95 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 6/30/17 | BJ | I170629A | | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 318 | 10 | | mg/L | 1.0 | SM2540 C | a | 7/3/17 | HKL | TDS_170703 | | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.14 | 0.01 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 6/30/17 | LRS | OPHOS_170630 | | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.125 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 7/6/17 | LRS | TPHOS_170706 | | |

| Sample Description: GW-146 Stiller Pond | | | | | | | | | | Sample Date: 6/28/17 10:40 am | | | |
|---|------------------------------|--------|-------|--------|-----------------|-----|--------------------------|-----|----------|-------------------------------|---------------|---------|--|
| Lab Number: 35230 | | | | | Sample Comment: | | | | | Collected By: Steve Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment | |
| 7439-89-6 | IRON | 0.05 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 7/5/17 | ANP | 200.7_170705A | | |
| 14797-55-8 | NITRATE-N | 9.91 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 6/30/17 | BJ | I170629A | | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 515 | 10 | | mg/L | 1.0 | SM2540 C | a | 7/3/17 | HKL | TDS_170703 | | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.11 | 0.01 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 6/30/17 | LRS | OPHOS_170630 | | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.096 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 7/6/17 | LRS | TPHOS_170706 | | |

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor



Data Report

| Sample Description: GW-147 Stiller Pond | | | | | | | | | Sample Date: 6/28/17 10:10 am | | | |
|---|-----------|--------|-----------------|-----|-------|----|--------|-----|-------------------------------|---------|-------|---------|
| Lab Number: 35231 | | | Sample Comment: | | | | | | Collected By: Steve Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |

| | | | | | | | | | | | | |
|------------|------------------------------|-------|-------|--------|------|-----|--------------------------|---|---------|-----|---------------|--|
| 7439-89-6 | IRON | 0.05 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 7/5/17 | ANP | 200.7_170705A | |
| 14797-55-8 | NITRATE-N | 4.98 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 6/30/17 | BJ | I170629A | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 282 | 10 | | mg/L | 1.0 | SM2540 C | a | 7/3/17 | HKL | TDS_170703 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.17 | 0.01 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 6/30/17 | LRS | OPHOS_170630 | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.153 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 7/6/17 | LRS | TPHOS_170706 | |

| Sample Description: Intake Stiller Pond | | | | | | | | | Sample Date: 6/28/17 11:50 am | | | |
|---|-----------|--------|-----------------|-----|-------|----|--------|-----|-------------------------------|---------|-------|---------|
| Lab Number: 35232 | | | Sample Comment: | | | | | | Collected By: Steve Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |

| | | | | | | | | | | | | |
|------------|------------------------------|-------|-------|--------|------|-----|--------------------------|---|---------|-----|---------------|--|
| 7439-89-6 | IRON | 0.12 | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 7/5/17 | ANP | 200.7_170705A | |
| 14797-55-8 | NITRATE-N | 2.13 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 6/30/17 | BJ | I170629A | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 155 | 10 | | mg/L | 1.0 | SM2540 C | a | 7/3/17 | HKL | TDS_170703 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.16 | 0.01 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 6/30/17 | LRS | OPHOS_170630 | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.166 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 7/6/17 | LRS | TPHOS_170706 | |

| Sample Description: GW-147 DUP Stiller Pond | | | | | | | | | Sample Date: 6/28/17 10:15 am | | | |
|---|-----------|--------|-----------------|-----|-------|----|--------|-----|-------------------------------|---------|-------|---------|
| Lab Number: 35233 | | | Sample Comment: | | | | | | Collected By: Steve Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |

| | | | | | | | | | | | | |
|------------|------------------------------|-------|-------|--------|------|-----|--------------------------|---|---------|-----|---------------|--|
| 7439-89-6 | IRON | ND | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 7/5/17 | ANP | 200.7_170705A | |
| 14797-55-8 | NITRATE-N | 4.96 | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 6/30/17 | BJ | I170629A | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | 274 | 10 | | mg/L | 1.0 | SM2540 C | a | 7/3/17 | HKL | TDS_170703 | |
| 14265-44-2 | ORTHO-PHOSPHATE | 0.17 | 0.01 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 6/30/17 | LRS | OPHOS_170630 | |
| 7723-14-0 | TOTAL PHOSPHORUS | 0.153 | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 7/6/17 | LRS | TPHOS_170706 | |

| Sample Description: Trip Blank Lab | | | | | | | | | Sample Date: 4/18/17 8:30 am | | | |
|------------------------------------|-----------|--------|-----------------|-----|-------|----|--------|-----|------------------------------|---------|-------|---------|
| Lab Number: 35234 | | | Sample Comment: | | | | | | Collected By: Steve Patten | | | |
| CAS ID# | Parameter | Result | PQL | MDL | Units | DF | Method | Lab | Analyzed | Analyst | Batch | Comment |

| | | | | | | | | | | | | |
|------------|------------------------------|----|-------|--------|------|-----|--------------------------|---|---------|-----|---------------|--|
| 7439-89-6 | IRON | ND | 0.050 | 0.0012 | mg/L | 1.0 | 200.7 | a | 7/5/17 | ANP | 200.7_170705A | |
| 14797-55-8 | NITRATE-N | ND | 0.100 | 0.0236 | mg/L | 1.0 | 300.0 | a | 6/30/17 | BJ | I170629A | |
| E-10173 | TOTAL DISSOLVED SOLIDS (TDS) | ND | 10 | | mg/L | 1.0 | SM2540 C | a | 7/3/17 | HKL | TDS_170703 | |
| 14265-44-2 | ORTHO-PHOSPHATE | ND | 0.01 | 0.002 | mg/L | 1.0 | SM4500-P F | a | 6/30/17 | LRS | OPHOS_170630 | |
| 7723-14-0 | TOTAL PHOSPHORUS | ND | 0.010 | 0.0026 | mg/L | 1.0 | SM4500-P F/SM4500-P B(5) | a | 7/6/17 | LRS | TPHOS_170706 | |

Notes:

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
 PQL = Practical Quantitation Limit is the lowest level that can be achieved within specified limits of precision and accuracy during routine laboratory operating conditions.
 D.F. - Dilution Factor



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Calibration Check

Reference Number: **17-15327**

Report Date: 07/12/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|--------------------|--------|------------|-------|------------|------------|---------|--------------|---------|---------|
| 200.7_170705A | 2 IRON | 1.02 | 1 | mg/L | 200.7 | 102 | 90-110 | CAL | | |
| I170629A | 0 NITRATE-N | 1.03 | 1 | mg/L | 300.0 | 103 | 90-110 | CAL | | |
| ophos_170630 | 0 ORTHO-PHOSPHATE | 1.06 | 1.00 | mg/L | SM4500-P F | 106 | 85-115 | CAL | | |
| tphos_170706 | 0 TOTAL PHOSPHORUS | 0.098 | 0.100 | mg/L | SM4500-P F | 98 | 85-115 | CAL | | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Laboratory Fortified Blank

Reference Number: **17-15327**

Report Date: 07/12/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|---------|--------|------------|-------|--------|------------|---------|--------------|---------|---------|
| 200.7_170705A | 0 IRON | 0.52 | 0.5 | mg/L | 200.7 | 104 | 85-115 | LFB | | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE INDEPENDENT
QUALITY CONTROL REPORT**

Laboratory Reagent Blank

Reference Number: **17-15327**

Report Date: 07/12/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|--------------------|--------|------------|-------|------------|------------|---------|--------------|---------|---------|
| 200.7_170705A | 0 IRON | ND | | mg/L | 200.7 | | 0-0 | | LRB | |
| 1170629A | 0 NITRATE-N | ND | | mg/L | 300.0 | | 0-0 | | LRB | |
| ophos_170630 | 0 ORTHO-PHOSPHATE | ND | | mg/L | SM4500-P F | | 0-0 | | LRB | |
| tphos_170706 | 0 TOTAL PHOSPHORUS | ND | | mg/L | SM4500-P F | | 0-0 | | LRB | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT
QUALITY CONTROL REPORT

Method Blank

Reference Number: **17-15327**

Report Date: 07/12/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | Limits* | QC Qualifier | QC Type | Comment |
|---------------|--------------------------------|--------|------------|-------|------------|------------|---------|--------------|---------|---------|
| 200.7_170705A | 0 IRON | ND | | mg/L | 200.7 | | 0-0 | | MB | |
| ophos_170630 | 0 ORTHO-PHOSPHATE | ND | | mg/L | SM4500-P F | | 0-0 | | MB | |
| TDS_170703 | 0 TOTAL DISSOLVED SOLIDS (TDS) | ND | | mg/L | SM2540 C | | 0-3 | | MB | |
| tphos_170706 | 0 TOTAL PHOSPHORUS | ND | | mg/L | SM4500-P F | | 0-0 | | MB | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: **17-15327**

Report Date: 07/12/17

| Batch | Analyte | Result | True Value | Units | Method | % Recovery | QC Limits* | QC Qualifier Type | QC Comment |
|---------------|--------------------------------|--------|------------|-------|------------|------------|------------|-------------------|------------|
| 200.7_170705A | 0 IRON | 2.09 | 2 | mg/L | 200.7 | 105 | 95-105 | QCS | |
| 1170629A | 0 NITRATE-N | 5.9 | 6 | mg/L | 300.0 | 98 | 90-110 | QCS | |
| ophos_170630 | 0 ORTHO-PHOSPHATE | 0.91 | 0.98 | mg/L | SM4500-P F | 93 | 90-110 | QCS | |
| TDS_170703 | 0 TOTAL DISSOLVED SOLIDS (TDS) | 500 | 500 | mg/L | SM2540 C | 100 | 80-120 | QCS | |
| tphos_170706 | 0 TOTAL PHOSPHORUS | 0.080 | 0.083 | mg/L | SM4500-P F | 96 | 90-110 | QCS | |

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.



**SAMPLE DEPENDENT
QUALITY CONTROL REPORT**
Duplicate, Matrix Spike/Matrix Spike Duplicate and Confirmation Result Report

| Batch | Sample | Analyte | Result | Duplicate Result | Units | %RPD | Limits | QC Qualifier | Type | Comments |
|----------------------|--------|------------------------------|--------|---------------------|-------|------|--------|-----------------|------|----------|
| Duplicate | | | | | | | | | | |
| 200.7_170705A | | | | | | | | | | |
| | 35036 | IRON | 0.07 | 0.07 | mg/L | 0.0 | 0-20 | | | DUP |
| | 35059 | IRON | 0.30 | 0.42 | mg/L | 33.3 | 0-20 | INH | | DUP |
| | 35064 | IRON | ND | ND | mg/L | NA | 0-20 | | | DUP |
| 1170629A | | | | | | | | | | |
| | 35120 | NITRATE-N | ND | ND | mg/L | NA | 0-20 | | | DUP |
| | 35138 | NITRATE-N | ND | ND | mg/L | NA | 0-20 | | | DUP |
| | 35237 | NITRATE-N | ND | ND | mg/L | NA | 0-20 | | | DUP |
| | 35244 | NITRATE-N | ND | ND | mg/L | NA | 0-20 | | | DUP |
| OPHOS_170630 | | | | | | | | | | |
| | 35228 | ORTHO-PHOSPHATE | 0.21 | 0.21 | mg/L | 0.0 | 0-20 | | | DUP |
| | 35320 | ORTHO-PHOSPHATE | ND | ND | mg/L | NA | 0-20 | | | DUP |
| TDS_170703 | | | | | | | | | | |
| | 35036 | TOTAL DISSOLVED SOLIDS (TDS) | 225 | 225 | mg/L | 0.0 | 0-5 | | | DUP |
| | 35235 | TOTAL DISSOLVED SOLIDS (TDS) | 180 | 182 | mg/L | 1.1 | 0-5 | | | DUP |
| TPHOS_170706 | | | | | | | | | | |
| | 34009 | TOTAL PHOSPHORUS | ND | ND | mg/L | NA | 0-20 | | | DUP |
| | 34019 | TOTAL PHOSPHORUS | 0.011 | 0.011 | mg/L | 0.0 | 0-20 | | | DUP |
| | 35175 | TOTAL PHOSPHORUS | ND | ND | mg/L | NA | 0-20 | | | DUP |

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

| Batch | Sample | Analyte | Result | Duplicate | | Spike Conc | Units | Percent Recovery | | Limits* | %RPD | Limits* | QC Qualifier | Type | Comments |
|---|--------|------------------|--------|--------------|--------------|------------|-------|------------------|-----|---------|------|---------|--------------|------|----------|
| | | | | Spike Result | Spike Result | | | MS | MSD | | | | | | |
| Laboratory Fortified Matrix (MS) | | | | | | | | | | | | | | | |
| 200.7_170705A | | | | | | | | | | | | | | | |
| | 35036 | IRON | 0.07 | 0.57 | 0.55 | 0.5 | mg/L | 100 | 96 | 70-130 | 4.1 | 0-20 | | LFM | |
| | 35059 | IRON | 0.30 | 1.17 | 1.32 | 0.50 | mg/L | 174 | 204 | 70-130 | 15.9 | 0-20 | IM | LFM | |
| | 35064 | IRON | ND | 0.49 | 0.48 | 0.50 | mg/L | 98 | 96 | 70-130 | 2.1 | 0-20 | | LFM | |
| I170629A | | | | | | | | | | | | | | | |
| | 35120 | NITRATE-N | ND | 1.06 | | 1.00 | mg/L | 106 | | 90-110 | NA | 0-20 | | LFM | |
| | 35138 | NITRATE-N | ND | 1.05 | | 1.00 | mg/L | 105 | | 90-110 | NA | 0-20 | | LFM | |
| | 35237 | NITRATE-N | ND | 1.09 | | 1.00 | mg/L | 109 | | 90-110 | NA | 0-20 | | LFM | |
| | 35244 | NITRATE-N | ND | 1.09 | | 1.00 | mg/L | 109 | | 90-110 | NA | 0-20 | | LFM | |
| OPHOS_170630 | | | | | | | | | | | | | | | |
| | 35228 | ORTHO-PHOSPHATE | 0.21 | 1.09 | 1.11 | 1.00 | mg/L | 88 | 90 | 70-130 | 2.2 | 0-20 | | LFM | |
| | 35320 | ORTHO-PHOSPHATE | ND | 0.93 | 0.95 | 1.00 | mg/L | 93 | 95 | 70-130 | 2.1 | 0-20 | | LFM | |
| TPHOS_170706 | | | | | | | | | | | | | | | |
| | 34009 | TOTAL PHOSPHORUS | ND | 0.054 | 0.053 | 0.050 | mg/L | 108 | 106 | 70-130 | 1.9 | 0-20 | | LFM | |
| | 34019 | TOTAL PHOSPHORUS | 0.011 | 0.061 | 0.059 | 0.050 | mg/L | 100 | 96 | 70-130 | 4.1 | 0-20 | | LFM | |
| | 35175 | TOTAL PHOSPHORUS | ND | 0.050 | 0.052 | 0.050 | mg/L | 100 | 104 | 70-130 | 3.9 | 0-20 | | LFM | |

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of an analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Limits are intended for water matrices only. These criteria are for guidance only when reported with soils/solids.

FORM: QC Dependent.rpt

Qualifier Definitions

Reference Number: 17-15327

Report Date: 07/12/17

| Qualifier | Definition |
|-----------|--------------------------------|
| IM | Matrix induced bias assumed |
| INH | The sample was non-homogeneous |

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

Report to: Walla Walla Basin Watershed Cour
 Ship Address: 810 S Main Street
 City: Milton-Freewe St OR Zip: 97862
 Attn: Steven Patten
 Phone: 541.938-2170 FAX:
 Email: steven.patten@wwbwc.org
 Project: Stiller Pond 3rd Event 2017

Bill to: Walla Walla Basin Watershed Council
 Address: 810 South Main Street
 City: Milton-Freewe St OR Zip: 97862
 Phone:
 P.O.#:
 Visa M/C A/E Expires /
 Card#:

17-15327
 35228 - 35234
ANALYTICAL
 Main Lab (800-755-9295)
 1620 South Walnut St. Burlington, WA 98233
 Microbiology (888-725-1212)
 Orchard Dr. Suite 4 Bellingham, WA 98222
 Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97070
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

Instructions

- Use one line per sample Location.
- Be specific in analysis requests.
- (NEW) List each metal individually. (NEW)
- Check off analyses to be performed for each sample Location.
- Enter number of containers.

Turn Around Time Required

Standard
 Half-time (50% surcharge)
 Quickest (100% surcharge) Phone Call Req.
 Emergency (Phone Call Req.)

Analyses Requested

| | |
|------------------------------|-------------------------------------|
| Fe | <input checked="" type="checkbox"/> |
| Fe (Field Dup) | <input type="checkbox"/> |
| Fe (Trip Blank) | <input type="checkbox"/> |
| TDS, NO3, o-PO4 | <input checked="" type="checkbox"/> |
| TDS, NO3, o-PO4 (Field Dup) | <input type="checkbox"/> |
| TDS, NO3, o-PO4 (Trip Blank) | <input type="checkbox"/> |
| Total P | <input checked="" type="checkbox"/> |
| Total P (Field Dup) | <input type="checkbox"/> |



Number of Containers _____
 Special Instructions
 Conditions on Receipt

| Field ID | Location | Grab/Comp. | Sample Matrix* | Date | Time | Fe | Fe (Field Dup) | Fe (Trip Blank) | TDS, NO3, o-PO4 | TDS, NO3, o-PO4 (Field Dup) | TDS, NO3, o-PO4 (Trip Blank) | Total P | Total P (Field Dup) | Number of Containers |
|----------|------------|------------|----------------|---------|-------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-----------------------------|------------------------------|-------------------------------------|-------------------------------------|----------------------|
| 1 | GLW-136 | GLW3 | GLW | 6/28/17 | 11:30 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 | GLW-145 | GLW | GLW | | 11:30 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 | GLW-146 | GLW | GLW | | 10:40 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 | GLW-147 | GLW | GLW | | 10:10 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 | TUNACE | GLW | SW | | 11:15 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6 | GLW-147 DR | GLW3 | GLW | 6/28/17 | 10:15 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 7 | TREB BANK | LAS | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 8 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 9 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 10 | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Sampled by: STEVEN PATTEN Phone: 541-938-2170 FAX: SAME Email: steven.patten@wwbwc.org

Sample Receipt Request (Must include FAX or Email) * W - water SW - surface water WW - waste water OL - oil
 DW - drinking water GW - Ground water S - soil Other _____

| Relinquished by | Date | Time | Received by | Date | Time |
|--------------------|---------|-------|--------------------|---------|-------|
| <i>[Signature]</i> | 6/28/17 | 12:30 | UPS | 6/28/17 | 12:30 |
| | | | <i>[Signature]</i> | 6/29/17 | 9:40 |

Custody seals intact Yes No N/A
 Sample temp. 21 C satisfactory Yes No N/A
 Samples received intact Yes No N/A
 Chain of custody & labels agree Yes No N/A

Chain of Custody / Analysis Request

(Please complete all applicable shaded sections)

32117



ANALYTICAL
 Main Lab (800-755-9295)
 1620 South Warbur St. Burlington, WA 98233
 Microbiology (888-725-1212)
 805 W. Orchard Dr. Suite 4 Bellingham, WA 98222
 Wilsonville Lab (503-682-7802)
 9150 SW Pioneer Ct. Suite W Wilsonville, OR 97170
 Corvallis Lab (541-753-4946)
 540 SW 3rd St. Corvallis, OR 97333

| | | | |
|---|---|--|--|
| Report to: Walla Walla Basin Watershed Cour | Bill to: Walla Walla Basin Watershed Council | Ref # | For Lab Use Only |
| Ship Address: 810 S Main Street | Address: 810 South Main Street | Check Regulatory Program | <input type="checkbox"/> Safe Drinking Water Act |
| City: Milton-Freewe St. OR Zip: 97862 | City: Milton-Freewe St. OR Zip: 97862 | <input type="checkbox"/> Clean Water Act | <input type="checkbox"/> RCRA / CERCLA |
| Attn: Steven Patten | Phone: P.O.#: | <input type="checkbox"/> Other | |
| Phone: 541.938-2170 FAX: | <input type="checkbox"/> Visa <input type="checkbox"/> M/C <input type="checkbox"/> A/E Expires / | | |
| Email: steven.patten@wwbwc.org | Card#: | | |
| Project: Stiller Pond 3rd Event 2017 | | | |

Instructions

- Use one line per sample Location.
- Be specific in analysis requests.
- (NEW) List each metal individually (NEW)**
- Check off analyses to be performed for each sample Location.
- Enter number of containers.

Turn Around Time Required

Standard
 Half-time (50% surcharge)
 Quickest (100% surcharge) Phone Call Req.
 Emergency (Phone Call Req.)

Analyses Requested

| Field ID | Location | Grab/Comp. | Sample Matrix* | Date | Time | Total P (Trip Blank) | Analyses Requested | | | | | | | | | | Number of Containers | Special Instructions Conditions on Receipt | | | | | | |
|----------|-------------|------------|----------------|---------|-------|----------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|
| 1 | GLU-136 | | GLU | 6/28/17 | 11:10 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 2 | GLU-145 | | GLU | | 11:30 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 3 | GLU-146 | | GLU | | 10:40 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 4 | GLU-147 | | GLU | | 10:10 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 5 | TRAP | | SW | | 11:50 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 6 | GLU-147 OUP | | GLU | | 10:15 | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 7 | TRAP BLANK | | GLU | | | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 8 | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 9 | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| 10 | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |

Sampled by: STEVEN PATTEN Phone: 541-938-2170 FAX: SAME Email: steven.patten@wwbwc.org

Sample Receipt Request (Must include FAX or Email) * W - water DW - drinking water SW - surface water GW - Ground water WW - waste water OL - oil Other _____

Relinquished by: _____ Date: 6/28/17 Time: 12:30 Received by: UPS Date: 6/28/17 Time: 12:30

Sample temp 21 C satisfactory Samples received intact Chain of custody & labels agree



| | | | | | |
|----------------|----------------------------|--------------------------|-----------------------|--------------|--------------|
| Burlington, WA | Corporate | 800 755 2274 | 800 755 2274 | 800 755 2274 | 800 755 2274 |
| Bellingham, WA | Microbiology (b) | 805 Orchard Dr Ste 4 | Bellingham, WA 98225 | 360.715.1212 | |
| Portland, OR | Microbiology/Chemistry (c) | 9150 SW Pioneer Ct Ste W | Wilsonville, OR 97070 | 503.682.7802 | |
| Corvallis, OR | Microbiology (d) | 540 SW Third Street | Corvallis, OR 97333 | 541.753.4946 | |

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

6/29/2017

Sample Receipt

Page 1 of 7

Mr. Steve Patten
 Walla Walla Basin Watershed Council
 810 South Main Street
 Milton-Freewater, OR 97862

We received the following samples for project "**Stiller Pond 3rd Event 2017**" on **6/29/2017** at **10:40:00AM**. The turnaround is **Standard**; this project is expected to be completed by **07/13/2017**. The temperature of the sample cooler was **2.1C**. Listed below are the samples, analytical methods and parameters to be tested. If you have any questions concerning this project please refer to reference number **17-15327**.

| | | |
|-----------------------------|------------------------------------|--------------------------------|
| Lab Sample ID: 35228 | Sample Desc: GW-136 - Stiller Pond | Date Sampled: 6/28/17 11:10 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|--------------------------------|
| Lab Sample ID: 35229 | Sample Desc: GW-145 - Stiller Pond | Date Sampled: 6/28/17 11:30 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|--------------------------------|
| Lab Sample ID: 35230 | Sample Desc: GW-146 - Stiller Pond | Date Sampled: 6/28/17 10:40 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|--------------------------------|
| Lab Sample ID: 35231 | Sample Desc: GW-147 - Stiller Pond | Date Sampled: 6/28/17 10:10 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|------------------------------------|--------------------------------|
| Lab Sample ID: 35232 | Sample Desc: Intake - Stiller Pond | Date Sampled: 6/28/17 11:50 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|--|--------------------------------|
| Lab Sample ID: 35233 | Sample Desc: GW-147 DUP - Stiller Pond | Date Sampled: 6/28/17 10:15 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS

| | | |
|-----------------------------|-------------------------------|-------------------------------|
| Lab Sample ID: 35234 | Sample Desc: Trip Blank - Lab | Date Sampled: 4/18/17 8:30 am |
| Sampled By: Steve Patten | | |

Trace Metals in Water and Wastes by Inductively Coupled Plasma Atomic Emission (ICP-AE) - (200.7)

IRON

Determination Of Inorganic Anions in Drinking Water By Ion Chromatography - (300.0)

NITRATE-N

TDS - (SM2540 C)

TOTAL DISSOLVED SOLIDS (TDS)

Orthophosphate in Water by FIA (Automated Ascorbic Acid Reduction) - (SM4500-P F)

ORTHO-PHOSPHATE

Prep Method: SM4500-P B(5) - Total P Persulfate Digestion

TOTAL PHOSPHORUS



29 June 2017

Vista Project ID: 1700798

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862
RE: Stiller Pond

Dear Mr. Patten,

The sample(s) listed in the sample inventory were received by Vista Analytical Laboratory on 29-Jun-17.

Please find attached:

- Terms and Conditions
- Sample Inventory Report
- Chain-of-Custody
- Sample Log-in Checklist
- Additional sample documentation (if applicable)

Analytical results are scheduled to be reported to you on 21-Jul-17.

If you have any questions regarding the status of the work associated with these samples, please contact me at mmaier@vista-analytical.com or (916) 673-1520.

Sincerely,
Martha Maier
Laboratory Director

TERMS AND CONDITIONS

ACCEPTANCE

These terms and conditions are incorporated into, and made a part of, every agreement for services between **Vista Analytical Laboratory, Inc.** ("Vista") and its client ("Client"). The Client accepts these terms and conditions by agreeing to purchase services from Vista or by sending samples to Vista.

PAYMENT

The Client shall pay in full within 30 days after the date that Vista invoices it for services rendered. No payment terms or conditions of purchase orders different from the terms of Vista will become part of any sales agreement, purchase order, or other document unless specifically approved in writing by Vista. Should suit be instituted to collect any debts of the undersigned, the client is responsible to pay all actual costs of collection and attorney's fees and interests on the past due amount at the highest rate legally available.

TURNAROUND TIME

Standard turnaround time is 21 days unless a shorter turnaround time is expressly agreed to by Vista. Turnaround time is defined as the number of calendar days between the first business day after Vista receives a sample or is authorized by the Client to perform an analysis on a sample, whichever occurs last, and the date that Vista transmits the final report for that sample to the Client. Rush orders, i.e., those that the Client requests to have analyzed in less than the standard turnaround time, will be subject to the additional charges set forth in the applicable quotation. Delays caused by acts of God, natural disasters, governmental actions, fires, floods and accidents, and other circumstances for which Vista is not responsible, shall not be counted in determining turnaround time.

SHIPPING

The Client is responsible for delivering its samples to Vista in good condition and the Client shall bear the risk of any loss of or damage to its samples during shipping. Vista reserves the right to refuse to accept delivery of, to refuse to analyze and/or to return any sample to the Client that is not delivered to Vista in good condition or that poses a health or safety risk. The Client shall pay the cost of returning such samples to it.

LIMITATION OF LIABILITY

Vista makes no representations, guarantees or warranties, express or implied, regarding the fitness of its reports for any particular use or purpose and Vista shall not be liable for consequential damages under any circumstance. The client's sole remedy is a refund of the amount that is paid Vista to analyze the sample in question. If Vista loses or damages a sample, after accepting it for analysis, Vista's liability shall not exceed the lesser of \$50 or the amount that the Client expended to obtain the sample.

INDEMNITY

The Client agrees to indemnify and defend Vista, and to hold Vista harmless, against any and all claims, actions, lawsuits, arbitration awards, judgements, damages, liabilities, expenses and costs, including attorneys' fees and court costs, arising out of, or related in any way to, the use to Vista's reports by the Client or by any third party who obtains Vista's reports from the Client.

Effective: 2/14/2007



Sample Inventory Report

| Vista Sample ID | Client Sample ID | Sampled | Received | Components/ Containers |
|-----------------|------------------|-----------------|-----------------|--|
| 1700798-01 | GW_136 | 28-Jun-17 11:10 | 29-Jun-17 09:59 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700798-02 | GW_145 | 28-Jun-17 11:30 | 29-Jun-17 09:59 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700798-03 | GW_146 | 28-Jun-17 10:40 | 29-Jun-17 09:59 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700798-04 | GW_147 | 28-Jun-17 10:10 | 29-Jun-17 09:59 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700798-05 | INTAKE | 28-Jun-17 11:50 | 29-Jun-17 09:59 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |



Sample Analysis Report

| Vista Sample ID | Client Sample ID | Requested Analysis | Status |
|------------------------|-------------------------|---------------------------|---------------|
| 1700798-01 | GW_136 | EPA Method 1668C | In Process |
| 1700798-02 | GW_145 | EPA Method 1668C | In Process |
| 1700798-03 | GW_146 | EPA Method 1668C | In Process |
| 1700798-04 | GW_147 | EPA Method 1668C | In Process |
| 1700798-05 | INTAKE | EPA Method 1668C | In Process |

Sample Log-in Checklist

Vista Work Order #: 1700798 TAT std

| | | | |
|------------------|---|---|--|
| Samples Arrival: | Date/Time 6/29/17 0959 | Initials: WNS | Location: WR-2 Shelf/Rack: N/A |
| Logged In: | Date/Time 06/29/17 1510 | Initials: JAB | Location: WR-2 Shelf/Rack: A3 |
| Delivered By: | FedEx <input type="checkbox"/> <u>UPS</u> <input checked="" type="checkbox"/> | On Trac <input type="checkbox"/> | GSO <input type="checkbox"/> DHL <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Other <input type="checkbox"/> |
| Preservation: | <u>Ice</u> <input checked="" type="checkbox"/> | Blue Ice <input type="checkbox"/> | Dry Ice <input type="checkbox"/> None <input type="checkbox"/> |
| Temp °C: | 10.7 (uncorrected) | Time: 1002 | Thermometer ID: IR-2 |
| Temp °C: | 10.3 (corrected) | Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | |

| | | YES | NO | NA |
|--|--|---|-------------------------------------|---|
| Adequate Sample Volume Received? | A/B | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holding Time Acceptable? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Container(s) Intact? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Custody Seals Intact? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Documentation Present? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Airbill | Trk # 1Z 62E 3F7 01 0800 0830 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample Container Intact? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample Custody Seals Intact? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Chain of Custody / Sample Documentation Present? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC Anomaly/Sample Acceptance Form completed? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Preservation Documented: | Na ₂ S ₂ O ₃ <input type="checkbox"/> Trizma <input type="checkbox"/> None <input type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/> | <u>NA</u> <input checked="" type="checkbox"/> |
| Shipping Container | <u>Vista</u> <input checked="" type="checkbox"/> Client <input type="checkbox"/> | <u>Retain</u> <input checked="" type="checkbox"/> | Return <input type="checkbox"/> | Dispose <input type="checkbox"/> |

Comments:



July 25, 2017

Vista Work Order No. 1700798

Mr. Steven Patten
Walla Walla Basin Watershed Council
810 S. Main Street
Milton-Freewater, OR 97862

Dear Mr. Patten,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on June 29, 2017. This sample set was analyzed on a standard turn-around time, under your Project Name 'Stiller Pond'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 1700798**Case Narrative****Sample Condition on Receipt:**

Five aqueous samples were received in good condition and within the method temperature requirements. The samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology.

Analytical Notes:**EPA Method 1668C**

These samples were extracted and analyzed for 209 PCB congeners by EPA Method 1668C using a ZB-1 GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are listed in the table below.

QC Anomalies

| LabNumber | SampleName | Analysis | Analyte | Flag | %Rec |
|------------|------------|------------------|-------------|------|------|
| 1700798-01 | GW_136 | EPA Method 1668C | 13C-PCB-208 | H | 146 |
| 1700798-02 | GW_145 | EPA Method 1668C | 13C-PCB-208 | H | 153 |
| 1700798-04 | GW_147 | EPA Method 1668C | 13C-PCB-206 | H | 147 |
| 1700798-04 | GW_147 | EPA Method 1668C | 13C-PCB-208 | H | 155 |
| 1700798-04 | GW_147 | EPA Method 1668C | 13C-PCB-209 | H | 199 |
| 1700798-05 | INTAKE | EPA Method 1668C | 13C-PCB-209 | H | 179 |

H = Recovery was outside laboratory acceptance criteria.

TABLE OF CONTENTS

| | |
|-------------------------|----|
| Case Narrative..... | 1 |
| Table of Contents..... | 3 |
| Sample Inventory..... | 4 |
| Analytical Results..... | 5 |
| Qualifiers..... | 32 |
| Certifications..... | 33 |
| Sample Receipt..... | 36 |

Sample Inventory Report

| Vista Sample ID | Client Sample ID | Sampled | Received | Components/Containers |
|--------------------|---------------------|-----------------|-----------------|--|
| 1700798-01 | GW_136 | 28-Jun-17 11:10 | 29-Jun-17 09:59 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700798-02 | GW_145 | 28-Jun-17 11:30 | 29-Jun-17 09:59 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700798-03 | GW_146 | 28-Jun-17 10:40 | 29-Jun-17 09:59 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700798-04 | GW_147 | 28-Jun-17 10:10 | 29-Jun-17 09:59 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |
| 1700798-05 | INTAKE | 28-Jun-17 11:50 | 29-Jun-17 09:59 | Amber Glass NM Bottle, 1L Amber Glass NM Bottle, 1L |

ANALYTICAL RESULTS

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | | EPA Method 1668C | | | | |
|-------------------------|--------------|----------------------------------|-------|------------|---|--------------|-------|------|------------|
| Matrix: Aqueous | | QC Batch: B7F0131 | | | Lab Sample: B7F0131-BLK1 | | | | |
| Sample Size: 1.00 L | | Date Extracted: 30-Jun-2017 7:22 | | | Date Analyzed: 06-Jul-17 18:04 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | ND | 0.593 | | | PCB-44 | 0.601 | | | J |
| PCB-2 | ND | 0.582 | | | PCB-45 | ND | 0.566 | | |
| PCB-3 | ND | 0.574 | | | PCB-46 | ND | 0.602 | | |
| PCB-4/10 | ND | 1.15 | | | PCB-47 | 1.68 | | | J |
| PCB-5/8 | ND | 0.870 | | | PCB-48/75 | ND | 0.406 | | |
| PCB-6 | ND | 0.912 | | | PCB-50 | ND | 0.622 | | |
| PCB-7/9 | ND | 0.898 | | | PCB-51 | ND | 0.485 | | |
| PCB-11 | 7.60 | | | | PCB-52/69 | 1.03 | | | J |
| PCB-12/13 | ND | 0.776 | | | PCB-53 | ND | 0.511 | | |
| PCB-14 | ND | 0.686 | | | PCB-54 | ND | 0.496 | | |
| PCB-15 | ND | 0.685 | | | PCB-55 | ND | 0.345 | | |
| PCB-16/32 | ND | 0.406 | | | PCB-56/60 | ND | 0.376 | | |
| PCB-17 | ND | 0.454 | | | PCB-57 | ND | 0.393 | | |
| PCB-18 | ND | 0.495 | | | PCB-58 | ND | 0.377 | | |
| PCB-19 | ND | 0.569 | | | PCB-61/70 | 0.624 | | | J |
| PCB-20/21/33 | 1.07 | | | J | PCB-62 | ND | 0.407 | | |
| PCB-22 | ND | 0.399 | | | PCB-63 | ND | 0.369 | | |
| PCB-23 | ND | 0.397 | | | PCB-65 | ND | 0.430 | | |
| PCB-24/27 | ND | 0.341 | | | PCB-66/76 | ND | 0.374 | | |
| PCB-25 | ND | 0.426 | | | PCB-67 | ND | 0.398 | | |
| PCB-26 | ND | 0.385 | | | PCB-68 | ND | 0.346 | | |
| PCB-28 | 1.46 | | | J | PCB-73 | ND | 0.404 | | |
| PCB-29 | ND | 0.382 | | | PCB-74 | ND | 0.368 | | |
| PCB-30 | ND | 0.343 | | | PCB-77 | ND | 0.327 | | |
| PCB-31 | 1.15 | | | J | PCB-78 | ND | 0.347 | | |
| PCB-34 | ND | 0.381 | | | PCB-79 | ND | 0.351 | | |
| PCB-35 | ND | 0.444 | | | PCB-80 | ND | 0.317 | | |
| PCB-36 | ND | 0.423 | | | PCB-81 | ND | 0.325 | | |
| PCB-37 | ND | 0.385 | | | PCB-82 | ND | 0.814 | | |
| PCB-38 | ND | 0.439 | | | PCB-83 | ND | 0.509 | | |
| PCB-39 | ND | 0.394 | | | PCB-84/92 | ND | 0.686 | | |
| PCB-40 | ND | 0.618 | | | PCB-85/116 | ND | 0.627 | | |
| PCB-41/64/71/72 | ND | | 0.430 | | PCB-86 | ND | 0.868 | | |
| PCB-42/59 | ND | 0.425 | | | PCB-87/117/125 | ND | 0.546 | | |
| PCB-43/49 | ND | 0.508 | | | PCB-88/91 | ND | 0.701 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | | EPA Method 1668C | | | | |
|-------------------------|--------------|----------------------------------|------|------------|---|--------------|-------|------|------------|
| Matrix: Aqueous | | QC Batch: B7F0131 | | | Lab Sample: B7F0131-BLK1 | | | | |
| Sample Size: 1.00 L | | Date Extracted: 30-Jun-2017 7:22 | | | Date Analyzed: 06-Jul-17 18:04 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 0.723 | | | PCB-137 | ND | 0.324 | | |
| PCB-90/101 | ND | 0.604 | | | PCB-138/163/164 | ND | 0.283 | | |
| PCB-93 | ND | 0.785 | | | PCB-139/149 | ND | 0.510 | | |
| PCB-94 | ND | 0.739 | | | PCB-140 | ND | 0.562 | | |
| PCB-95/98/102 | ND | 0.660 | | | PCB-141 | ND | 0.330 | | |
| PCB-96 | ND | 0.588 | | | PCB-142 | ND | 0.411 | | |
| PCB-97 | ND | 0.666 | | | PCB-144 | ND | 0.508 | | |
| PCB-99 | ND | 0.601 | | | PCB-145 | ND | 0.418 | | |
| PCB-100 | ND | 0.644 | | | PCB-146/165 | ND | 0.319 | | |
| PCB-103 | ND | 0.639 | | | PCB-147 | ND | 0.577 | | |
| PCB-104 | ND | 0.516 | | | PCB-148 | ND | 0.552 | | |
| PCB-105 | ND | 0.554 | | | PCB-150 | ND | 0.408 | | |
| PCB-106/118 | ND | 0.467 | | | PCB-151 | ND | 0.546 | | |
| PCB-107/109 | ND | 0.466 | | | PCB-152 | ND | 0.402 | | |
| PCB-108/112 | ND | 0.608 | | | PCB-153 | ND | 0.311 | | |
| PCB-110 | 0.540 | | | J | PCB-154 | ND | 0.501 | | |
| PCB-111/115 | ND | 0.466 | | | PCB-155 | ND | 0.382 | | |
| PCB-113 | ND | 0.538 | | | PCB-156 | ND | 0.248 | | |
| PCB-114 | ND | 0.573 | | | PCB-157 | ND | 0.245 | | |
| PCB-119 | ND | 0.463 | | | PCB-158/160 | ND | 0.257 | | |
| PCB-120 | ND | 0.428 | | | PCB-159 | ND | 0.243 | | |
| PCB-121 | ND | 0.489 | | | PCB-166 | ND | 0.265 | | |
| PCB-122 | ND | 0.632 | | | PCB-167 | ND | 0.253 | | |
| PCB-123 | ND | 0.465 | | | PCB-168 | ND | 0.258 | | |
| PCB-124 | ND | 0.464 | | | PCB-169 | ND | 0.257 | | |
| PCB-126 | ND | 0.591 | | | PCB-170 | ND | 0.224 | | |
| PCB-127 | ND | 0.605 | | | PCB-171 | ND | 0.228 | | |
| PCB-128/162 | ND | 0.300 | | | PCB-172 | ND | 0.237 | | |
| PCB-129 | ND | 0.384 | | | PCB-173 | ND | 0.281 | | |
| PCB-130 | ND | 0.401 | | | PCB-174 | ND | 0.247 | | |
| PCB-131/133 | ND | 0.399 | | | PCB-175 | ND | 0.251 | | |
| PCB-132/161 | ND | 0.320 | | | PCB-176 | ND | 0.185 | | |
| PCB-134/143 | ND | 0.396 | | | PCB-177 | ND | 0.265 | | |
| PCB-135 | ND | 0.566 | | | PCB-178 | ND | 0.256 | | |
| PCB-136 | ND | 0.391 | | | PCB-179 | ND | 0.201 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | | EPA Method 1668C | | | | |
|-------------------------|--------------|----------------------------------|------|------------|---|--------------|-------|------|------------|
| Matrix: Aqueous | | QC Batch: B7F0131 | | | Lab Sample: B7F0131-BLK1 | | | | |
| Sample Size: 1.00 L | | Date Extracted: 30-Jun-2017 7:22 | | | Date Analyzed: 06-Jul-17 18:04 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-180 | ND | 0.231 | | | Total octaCB | 0.630 | | | |
| PCB-181 | ND | 0.234 | | | Total nonaCB | ND | 0.246 | | |
| PCB-182/187 | ND | 0.233 | | | DecaCB | ND | 0.311 | | |
| PCB-183 | ND | 0.216 | | | Total PCB | 16.4 | | | |
| PCB-184 | ND | 0.200 | | | | | | | |
| PCB-185 | ND | 0.236 | | | | | | | |
| PCB-186 | ND | 0.184 | | | | | | | |
| PCB-188 | ND | 0.184 | | | | | | | |
| PCB-189 | ND | 0.144 | | | | | | | |
| PCB-190 | ND | 0.161 | | | | | | | |
| PCB-191 | ND | 0.172 | | | | | | | |
| PCB-192 | ND | 0.183 | | | | | | | |
| PCB-193 | ND | 0.177 | | | | | | | |
| PCB-194 | 0.630 | | | J | | | | | |
| PCB-195 | ND | 0.290 | | | | | | | |
| PCB-196/203 | ND | 0.408 | | | | | | | |
| PCB-197 | ND | 0.294 | | | | | | | |
| PCB-198 | ND | 0.428 | | | | | | | |
| PCB-199 | ND | 0.465 | | | | | | | |
| PCB-200 | ND | 0.315 | | | | | | | |
| PCB-201 | ND | 0.310 | | | | | | | |
| PCB-202 | ND | 0.336 | | | | | | | |
| PCB-204 | ND | 0.329 | | | | | | | |
| PCB-205 | ND | 0.204 | | | | | | | |
| PCB-206 | ND | 0.246 | | | | | | | |
| PCB-207 | ND | 0.168 | | | | | | | |
| PCB-208 | ND | 0.171 | | | | | | | |
| PCB-209 | ND | 0.311 | | | | | | | |
| Total monoCB | ND | 0.593 | | | | | | | |
| Total diCB | 7.60 | | | | | | | | |
| Total triCB | 3.68 | | | | | | | | |
| Total tetraCB | 3.94 | | 4.37 | | | | | | |
| Total pentaCB | 0.540 | | | | | | | | |
| Total hexaCB | ND | 0.577 | | | | | | | |
| Total heptaCB | ND | 0.281 | | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: Method Blank | | | | EPA Method 1668C | | | |
|-------------------------|------|----------------------------------|------------|--------------------------------|------|--------------|------------|
| Matrix: Aqueous | | QC Batch: B7F0131 | | Lab Sample: B7F0131-BLK1 | | | |
| Sample Size: 1.00 L | | Date Extracted: 30-Jun-2017 7:22 | | Date Analyzed: 06-Jul-17 18:04 | | Column: ZB-1 | |
| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
| IS 13C-PCB-1 | 61.7 | 5 - 145 | | 13C-PCB-157 | 89.2 | 10 - 145 | |
| 13C-PCB-3 | 61.4 | 5 - 145 | | 13C-PCB-159 | 86.2 | 10 - 145 | |
| 13C-PCB-4 | 63.9 | 5 - 145 | | 13C-PCB-167 | 88.2 | 10 - 145 | |
| 13C-PCB-11 | 74.0 | 5 - 145 | | 13C-PCB-169 | 91.2 | 10 - 145 | |
| 13C-PCB-9 | 66.0 | 5 - 145 | | 13C-PCB-170 | 94.1 | 10 - 145 | |
| 13C-PCB-19 | 77.1 | 5 - 145 | | 13C-PCB-180 | 92.5 | 10 - 145 | |
| 13C-PCB-28 | 70.7 | 5 - 145 | | 13C-PCB-188 | 85.0 | 10 - 145 | |
| 13C-PCB-32 | 80.7 | 5 - 145 | | 13C-PCB-189 | 93.1 | 10 - 145 | |
| 13C-PCB-37 | 79.2 | 5 - 145 | | 13C-PCB-194 | 92.3 | 10 - 145 | |
| 13C-PCB-47 | 88.0 | 5 - 145 | | 13C-PCB-202 | 113 | 10 - 145 | |
| 13C-PCB-52 | 86.3 | 5 - 145 | | 13C-PCB-206 | 79.3 | 10 - 145 | |
| 13C-PCB-54 | 71.8 | 5 - 145 | | 13C-PCB-208 | 77.2 | 10 - 145 | |
| 13C-PCB-70 | 85.9 | 5 - 145 | | 13C-PCB-209 | 81.9 | 10 - 145 | |
| 13C-PCB-77 | 92.1 | 10 - 145 | | CRS 13C-PCB-79 | 93.0 | 10 - 145 | |
| 13C-PCB-80 | 87.0 | 10 - 145 | | 13C-PCB-178 | 94.2 | 10 - 145 | |
| 13C-PCB-81 | 91.4 | 10 - 145 | | | | | |
| 13C-PCB-95 | 87.7 | 10 - 145 | | | | | |
| 13C-PCB-97 | 90.4 | 10 - 145 | | | | | |
| 13C-PCB-101 | 90.2 | 10 - 145 | | | | | |
| 13C-PCB-104 | 82.7 | 10 - 145 | | | | | |
| 13C-PCB-105 | 86.7 | 10 - 145 | | | | | |
| 13C-PCB-114 | 87.3 | 10 - 145 | | | | | |
| 13C-PCB-118 | 92.8 | 10 - 145 | | | | | |
| 13C-PCB-123 | 96.7 | 10 - 145 | | | | | |
| 13C-PCB-126 | 89.1 | 10 - 145 | | | | | |
| 13C-PCB-127 | 86.9 | 10 - 145 | | | | | |
| 13C-PCB-138 | 87.9 | 10 - 145 | | | | | |
| 13C-PCB-141 | 88.2 | 10 - 145 | | | | | |
| 13C-PCB-153 | 84.3 | 10 - 145 | | | | | |
| 13C-PCB-155 | 95.1 | 10 - 145 | | | | | |
| 13C-PCB-156 | 88.1 | 10 - 145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: OPR | | | | | EPA Method 1668C | | | |
|---------------------|----------------------------------|-------------------------|------|----------|---|------|----------|--|
| Matrix: Aqueous | QC Batch: B7F0131 | Lab Sample: B7F0131-BS1 | | | Date Analyzed: 06-Jul-17 14:48 Column: ZB-1 | | | |
| Sample Size: 1.00 L | Date Extracted: 30-Jun-2017 7:22 | | | | | | | |
| Analyte | Amt Found (pg/L) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL | |
| PCB-1 | 915 | 1000 | 91.5 | 60 - 135 | IS 13C-PCB-1 | 27.0 | 15 - 145 | |
| PCB-3 | 927 | 1000 | 92.7 | 60 - 135 | IS 13C-PCB-3 | 31.9 | 15 - 145 | |
| PCB-4/10 | 2120 | 2000 | 106 | 60 - 135 | IS 13C-PCB-4 | 35.0 | 15 - 145 | |
| PCB-15 | 1170 | 1000 | 117 | 60 - 135 | IS 13C-PCB-11 | 50.3 | 15 - 145 | |
| PCB-19 | 824 | 1000 | 82.4 | 60 - 135 | IS 13C-PCB-9 | 34.9 | 15 - 145 | |
| PCB-37 | 1010 | 1000 | 101 | 60 - 135 | IS 13C-PCB-19 | 48.4 | 15 - 145 | |
| PCB-54 | 849 | 1000 | 84.9 | 60 - 135 | IS 13C-PCB-28 | 57.1 | 15 - 145 | |
| PCB-77 | 913 | 1000 | 91.3 | 60 - 135 | IS 13C-PCB-32 | 55.2 | 15 - 145 | |
| PCB-81 | 875 | 1000 | 87.5 | 60 - 135 | IS 13C-PCB-37 | 68.9 | 15 - 145 | |
| PCB-104 | 860 | 1000 | 86.0 | 60 - 135 | IS 13C-PCB-47 | 64.0 | 15 - 145 | |
| PCB-105 | 1070 | 1000 | 107 | 60 - 135 | IS 13C-PCB-52 | 62.2 | 15 - 145 | |
| PCB-106/118 | 1690 | 2000 | 84.6 | 60 - 135 | IS 13C-PCB-54 | 49.5 | 15 - 145 | |
| PCB-114 | 1090 | 1000 | 109 | 60 - 135 | IS 13C-PCB-70 | 68.2 | 15 - 145 | |
| PCB-123 | 835 | 1000 | 83.5 | 60 - 135 | IS 13C-PCB-77 | 74.3 | 40 - 145 | |
| PCB-126 | 1100 | 1000 | 110 | 60 - 135 | IS 13C-PCB-80 | 68.2 | 40 - 145 | |
| PCB-155 | 878 | 1000 | 87.8 | 60 - 135 | IS 13C-PCB-81 | 72.1 | 40 - 145 | |
| PCB-156 | 929 | 1000 | 92.9 | 60 - 135 | IS 13C-PCB-95 | 69.3 | 40 - 145 | |
| PCB-157 | 922 | 1000 | 92.2 | 60 - 135 | IS 13C-PCB-97 | 73.5 | 40 - 145 | |
| PCB-167 | 927 | 1000 | 92.7 | 60 - 135 | IS 13C-PCB-101 | 70.9 | 40 - 145 | |
| PCB-169 | 963 | 1000 | 96.3 | 60 - 135 | IS 13C-PCB-104 | 60.2 | 40 - 145 | |
| PCB-188 | 842 | 1000 | 84.2 | 60 - 135 | IS 13C-PCB-105 | 75.0 | 40 - 145 | |
| PCB-189 | 875 | 1000 | 87.5 | 60 - 135 | IS 13C-PCB-114 | 74.2 | 40 - 145 | |
| PCB-202 | 822 | 1000 | 82.2 | 60 - 135 | IS 13C-PCB-118 | 74.3 | 40 - 145 | |
| PCB-205 | 1020 | 1000 | 102 | 60 - 135 | IS 13C-PCB-123 | 78.2 | 40 - 145 | |
| PCB-206 | 954 | 1000 | 95.4 | 60 - 135 | IS 13C-PCB-126 | 75.0 | 40 - 145 | |
| PCB-208 | 956 | 1000 | 95.6 | 60 - 135 | IS 13C-PCB-127 | 74.9 | 40 - 145 | |
| PCB-209 | 862 | 1000 | 86.2 | 60 - 135 | IS 13C-PCB-138 | 71.9 | 40 - 145 | |
| | | | | | IS 13C-PCB-141 | 71.6 | 40 - 145 | |
| | | | | | IS 13C-PCB-153 | 68.4 | 40 - 145 | |
| | | | | | IS 13C-PCB-155 | 72.1 | 40 - 145 | |
| | | | | | IS 13C-PCB-156 | 72.2 | 40 - 145 | |
| | | | | | IS 13C-PCB-157 | 73.2 | 40 - 145 | |
| | | | | | IS 13C-PCB-159 | 70.5 | 40 - 145 | |
| | | | | | IS 13C-PCB-167 | 71.0 | 40 - 145 | |
| | | | | | IS 13C-PCB-169 | 73.9 | 40 - 145 | |
| | | | | | IS 13C-PCB-170 | 77.7 | 40 - 145 | |
| | | | | | IS 13C-PCB-180 | 76.3 | 40 - 145 | |
| | | | | | IS 13C-PCB-188 | 68.2 | 40 - 145 | |
| | | | | | IS 13C-PCB-189 | 76.3 | 40 - 145 | |
| | | | | | IS 13C-PCB-194 | 76.8 | 40 - 145 | |

| Sample ID: OPR | | | | | EPA Method 1668C | | |
|--|---|--|----|--------|------------------|------|----------|
| Matrix: Aqueous Sample Size: 1.00 L | QC Batch: B7F0131 Date Extracted: 30-Jun-2017 7:22 | Lab Sample: B7F0131-BS1 Date Analyzed: 06-Jul-17 14:48 Column: ZB-1 | | | | | |
| Analyte | Amt Found (pg/L) | Spike Amt | %R | Limits | Labeled Standard | %R | LCL-UCL |
| | | | | | IS 13C-PCB-202 | 90.8 | 40 - 145 |
| | | | | | IS 13C-PCB-206 | 64.1 | 40 - 145 |
| | | | | | IS 13C-PCB-208 | 60.7 | 40 - 145 |
| | | | | | IS 13C-PCB-209 | 63.2 | 40 - 145 |
| | | | | | CRS 13C-PCB-79 | 74.8 | 40 - 145 |
| | | | | | CRS 13C-PCB-178 | 76.7 | 40 - 145 |

LCL-UCL - Lower control limit - upper control limit

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW_136 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|----------------------|------------|---|--------------|----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700798-01 | | Date Received: 29-Jun-2017 9:59 | | |
| Project: Stiller Pond | | | Sample Size: 0.999 L | | QC Batch: B7F0131 | | Date Extracted: 30-Jun-2017 7:22 | | |
| Date Collected: 28-Jun-2017 11:10 | | | | | Date Analyzed: 15-Jul-17 02:37 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | 7.98 | | | | PCB-44 | 2.37 | | | J, B |
| PCB-2 | ND | | 0.568 | | PCB-45 | 0.783 | | | J |
| PCB-3 | 2.92 | | | J | PCB-46 | ND | | 0.330 | |
| PCB-4/10 | 9.66 | | | J | PCB-47 | ND | | 1.65 | |
| PCB-5/8 | 19.0 | | | | PCB-48/75 | 1.04 | | | J |
| PCB-6 | 3.26 | | | J | PCB-50 | ND | 0.363 | | |
| PCB-7/9 | 1.60 | | | J | PCB-51 | ND | | 0.585 | |
| PCB-11 | 13.2 | | | B | PCB-52/69 | 2.16 | | | J, B |
| PCB-12/13 | ND | 0.272 | | | PCB-53 | 0.591 | | | J |
| PCB-14 | ND | 0.228 | | | PCB-54 | ND | 0.297 | | |
| PCB-15 | 5.09 | | | | PCB-55 | ND | 0.217 | | |
| PCB-16/32 | 9.60 | | | J | PCB-56/60 | 1.18 | | | J |
| PCB-17 | 5.08 | | | | PCB-57 | ND | 0.228 | | |
| PCB-18 | 13.4 | | | | PCB-58 | ND | 0.218 | | |
| PCB-19 | 1.69 | | | J | PCB-61/70 | 1.92 | | | J, B |
| PCB-20/21/33 | 7.28 | | | J, B | PCB-62 | ND | 0.267 | | |
| PCB-22 | 4.79 | | | J | PCB-63 | ND | 0.220 | | |
| PCB-23 | ND | 0.220 | | | PCB-65 | ND | 0.272 | | |
| PCB-24/27 | 1.12 | | | J | PCB-66/76 | 1.20 | | | J |
| PCB-25 | 0.856 | | | J | PCB-67 | ND | 0.241 | | |
| PCB-26 | 1.52 | | | J | PCB-68 | ND | 0.225 | | |
| PCB-28 | 9.06 | | | B | PCB-73 | ND | 0.252 | | |
| PCB-29 | ND | 0.213 | | | PCB-74 | ND | | 0.711 | |
| PCB-30 | ND | 0.135 | | | PCB-77 | ND | 0.244 | | |
| PCB-31 | 7.94 | | | B | PCB-78 | ND | 0.245 | | |
| PCB-34 | ND | 0.215 | | | PCB-79 | ND | 0.223 | | |
| PCB-35 | ND | 0.233 | | | PCB-80 | ND | 0.200 | | |
| PCB-36 | ND | 0.218 | | | PCB-81 | ND | 0.235 | | |
| PCB-37 | 1.23 | | | J | PCB-82 | ND | 0.338 | | |
| PCB-38 | ND | 0.229 | | | PCB-83 | ND | 0.212 | | |
| PCB-39 | ND | 0.214 | | | PCB-84/92 | ND | 0.282 | | |
| PCB-40 | 0.727 | | | J | PCB-85/116 | ND | 0.256 | | |
| PCB-41/64/71/72 | 2.02 | | | J | PCB-86 | ND | 0.331 | | |
| PCB-42/59 | ND | | 1.04 | | PCB-87/117/125 | ND | 0.232 | | |
| PCB-43/49 | 2.04 | | | J | PCB-88/91 | ND | 0.280 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

Sample ID: GW_136

EPA Method 1668C

| Client Data | | Sample Data | | Laboratory Data | | | |
|-----------------|-------------------------------------|--------------|---------|-----------------|-----------------|-----------------|------------------|
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-01 | Date Received: | 29-Jun-2017 9:59 |
| Project: | Stiller Pond | Sample Size: | 0.999 L | QC Batch: | B7F0131 | Date Extracted: | 30-Jun-2017 7:22 |
| Date Collected: | 28-Jun-2017 11:10 | | | Date Analyzed: | 15-Jul-17 02:37 | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|-------|------------|-----------------|--------------|-------|-------|------------|
| PCB-89 | ND | 0.297 | | | PCB-137 | ND | 0.256 | | |
| PCB-90/101 | ND | | 1.28 | | PCB-138/163/164 | ND | | 0.840 | |
| PCB-93 | ND | 0.311 | | | PCB-139/149 | ND | | 0.645 | |
| PCB-94 | ND | 0.287 | | | PCB-140 | ND | 0.205 | | |
| PCB-95/98/102 | 1.35 | | | J | PCB-141 | ND | 0.262 | | |
| PCB-96 | ND | 0.222 | | | PCB-142 | ND | 0.297 | | |
| PCB-97 | ND | 0.271 | | | PCB-144 | ND | 0.184 | | |
| PCB-99 | ND | 0.244 | | | PCB-145 | ND | 0.162 | | |
| PCB-100 | ND | 0.245 | | | PCB-146/165 | ND | 0.238 | | |
| PCB-103 | ND | 0.243 | | | PCB-147 | ND | 0.211 | | |
| PCB-104 | ND | 0.199 | | | PCB-148 | ND | 0.205 | | |
| PCB-105 | ND | | 0.507 | | PCB-150 | ND | 0.155 | | |
| PCB-106/118 | ND | | 1.01 | | PCB-151 | ND | 0.196 | | |
| PCB-107/109 | ND | 0.196 | | | PCB-152 | ND | 0.153 | | |
| PCB-108/112 | ND | 0.248 | | | PCB-153 | ND | | 0.591 | |
| PCB-110 | 1.51 | | | J, B | PCB-154 | ND | 0.194 | | |
| PCB-111/115 | ND | 0.200 | | | PCB-155 | ND | 0.148 | | |
| PCB-113 | ND | 0.236 | | | PCB-156 | ND | 0.180 | | |
| PCB-114 | ND | 0.232 | | | PCB-157 | ND | 0.183 | | |
| PCB-119 | ND | 0.191 | | | PCB-158/160 | ND | 0.202 | | |
| PCB-120 | ND | 0.193 | | | PCB-159 | ND | 0.194 | | |
| PCB-121 | ND | 0.194 | | | PCB-166 | ND | 0.215 | | |
| PCB-122 | ND | 0.257 | | | PCB-167 | ND | 0.181 | | |
| PCB-123 | ND | 0.198 | | | PCB-168 | ND | 0.191 | | |
| PCB-124 | ND | 0.201 | | | PCB-169 | ND | 0.214 | | |
| PCB-126 | ND | 0.246 | | | PCB-170 | ND | 0.198 | | |
| PCB-127 | ND | 0.243 | | | PCB-171 | 0.251 | | | J |
| PCB-128/162 | ND | 0.229 | | | PCB-172 | ND | 0.207 | | |
| PCB-129 | ND | 0.292 | | | PCB-173 | ND | 0.244 | | |
| PCB-130 | ND | 0.285 | | | PCB-174 | 0.296 | | | J |
| PCB-131/133 | ND | 0.290 | | | PCB-175 | ND | 0.243 | | |
| PCB-132/161 | ND | 0.240 | | | PCB-176 | ND | 0.177 | | |
| PCB-134/143 | ND | 0.292 | | | PCB-177 | ND | 0.221 | | |
| PCB-135 | ND | 0.204 | | | PCB-178 | ND | 0.248 | | |
| PCB-136 | ND | 0.149 | | | PCB-179 | ND | 0.193 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Sample ID: GW_136

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-01 |
| Project: | Stiller Pond | Sample Size: | 0.999 L | Date Received: | 29-Jun-2017 9:59 |
| Date Collected: | 28-Jun-2017 11:10 | | | QC Batch: | B7F0131 |
| | | | | Date Analyzed : | 15-Jul-17 02:37 Column: ZB-1 |
| | | | | Date Extracted: | 30-Jun-2017 7:22 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|--------|-------|------------|--------------|--------------|-------|------|------------|
| PCB-180 | ND | | 0.226 | | Total octaCB | 0.576 | | | |
| PCB-181 | ND | 0.202 | | | Total nonaCB | ND | 0.458 | | |
| PCB-182/187 | ND | 0.225 | | | DecaCB | ND | 0.298 | | |
| PCB-183 | ND | 0.210 | | | Total PCB | 146 | | | |
| PCB-184 | ND | 0.202 | | | | | | | |
| PCB-185 | ND | 0.206 | | | | | | | |
| PCB-186 | ND | 0.186 | | | | | | | |
| PCB-188 | ND | 0.187 | | | | | | | |
| PCB-189 | ND | 0.143 | | | | | | | |
| PCB-190 | ND | 0.148 | | | | | | | |
| PCB-191 | ND | 0.156 | | | | | | | |
| PCB-192 | ND | 0.169 | | | | | | | |
| PCB-193 | ND | 0.159 | | | | | | | |
| PCB-194 | 0.576 | | | J, B | | | | | |
| PCB-195 | ND | 0.290 | | | | | | | |
| PCB-196/203 | ND | 0.135 | | | | | | | |
| PCB-197 | ND | 0.0960 | | | | | | | |
| PCB-198 | ND | 0.145 | | | | | | | |
| PCB-199 | ND | 0.141 | | | | | | | |
| PCB-200 | ND | 0.110 | | | | | | | |
| PCB-201 | ND | 0.103 | | | | | | | |
| PCB-202 | ND | 0.112 | | | | | | | |
| PCB-204 | ND | 0.112 | | | | | | | |
| PCB-205 | ND | 0.229 | | | | | | | |
| PCB-206 | ND | 0.458 | | | | | | | |
| PCB-207 | ND | 0.183 | | | | | | | |
| PCB-208 | ND | 0.185 | | | | | | | |
| PCB-209 | ND | 0.298 | | | | | | | |
| Total monoCB | 10.9 | | 11.5 | | | | | | |
| Total diCB | 51.8 | | | | | | | | |
| Total triCB | 63.6 | | | | | | | | |
| Total tetraCB | 16.0 | | 20.4 | | | | | | |
| Total pentaCB | 2.87 | | 5.66 | | | | | | |
| Total hexaCB | ND | | 2.08 | | | | | | |
| Total heptaCB | 0.548 | | 0.774 | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: GW_136

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-01 |
| Project: | Stiller Pond | Sample Size: | 0.999 L | Date Received: | 29-Jun-2017 9:59 |
| Date Collected: | 28-Jun-2017 11:10 | | | QC Batch: | B7F0131 |
| | | | | Date Analyzed: | 15-Jul-17 02:37 Column: ZB-1 |
| | | | | Date Extracted: | 30-Jun-2017 7:22 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 53.6 | 5 -145 | | 13C-PCB-170 | 91.9 | 10 -145 | |
| 13C-PCB-3 | 58.8 | 5 -145 | | 13C-PCB-180 | 89.9 | 10 -145 | |
| 13C-PCB-4 | 46.3 | 5 -145 | | 13C-PCB-188 | 75.3 | 10 -145 | |
| 13C-PCB-11 | 66.1 | 5 -145 | | 13C-PCB-189 | 89.6 | 10 -145 | |
| 13C-PCB-9 | 50.9 | 5 -145 | | 13C-PCB-194 | 84.0 | 10 -145 | |
| 13C-PCB-19 | 67.8 | 5 -145 | | 13C-PCB-202 | 86.9 | 10 -145 | |
| 13C-PCB-28 | 65.4 | 5 -145 | | 13C-PCB-206 | 121 | 10 -145 | |
| 13C-PCB-32 | 84.0 | 5 -145 | | 13C-PCB-208 | 146 | 10 -145 | H |
| 13C-PCB-37 | 71.0 | 5 -145 | | 13C-PCB-209 | 130 | 10 -145 | |
| 13C-PCB-47 | 83.0 | 5 -145 | | CRS 13C-PCB-79 | 84.4 | 10 -145 | |
| 13C-PCB-52 | 84.1 | 5 -145 | | 13C-PCB-178 | 70.1 | 10 -145 | |
| 13C-PCB-54 | 74.2 | 5 -145 | | | | | |
| 13C-PCB-70 | 86.2 | 5 -145 | | | | | |
| 13C-PCB-77 | 81.6 | 10 -145 | | | | | |
| 13C-PCB-80 | 85.3 | 10 -145 | | | | | |
| 13C-PCB-81 | 80.8 | 10 -145 | | | | | |
| 13C-PCB-95 | 88.8 | 10 -145 | | | | | |
| 13C-PCB-97 | 86.6 | 10 -145 | | | | | |
| 13C-PCB-101 | 87.9 | 10 -145 | | | | | |
| 13C-PCB-104 | 86.8 | 10 -145 | | | | | |
| 13C-PCB-105 | 49.6 | 10 -145 | | | | | |
| 13C-PCB-114 | 49.3 | 10 -145 | | | | | |
| 13C-PCB-118 | 90.2 | 10 -145 | | | | | |
| 13C-PCB-123 | 89.0 | 10 -145 | | | | | |
| 13C-PCB-126 | 50.7 | 10 -145 | | | | | |
| 13C-PCB-127 | 50.3 | 10 -145 | | | | | |
| 13C-PCB-138 | 83.0 | 10 -145 | | | | | |
| 13C-PCB-141 | 82.3 | 10 -145 | | | | | |
| 13C-PCB-153 | 81.9 | 10 -145 | | | | | |
| 13C-PCB-155 | 86.6 | 10 -145 | | | | | |
| 13C-PCB-156 | 88.7 | 10 -145 | | | | | |
| 13C-PCB-157 | 89.4 | 10 -145 | | | | | |
| 13C-PCB-159 | 83.9 | 10 -145 | | | | | |
| 13C-PCB-167 | 88.8 | 10 -145 | | | | | |
| 13C-PCB-169 | 87.4 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

Sample ID: GW_145

EPA Method 1668C

| Client Data | | Sample Data | | Laboratory Data | | | |
|-----------------|-------------------------------------|--------------|---------|-----------------|-----------------|-----------------|------------------|
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-02 | Date Received: | 29-Jun-2017 9:59 |
| Project: | Stiller Pond | Sample Size: | 1.01 L | QC Batch: | B7F0131 | Date Extracted: | 30-Jun-2017 7:22 |
| Date Collected: | 28-Jun-2017 11:30 | | | Date Analyzed: | 19-Jul-17 12:04 | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|-----------------|--------------|-------|------|------------|----------------|--------------|-------|-------|------------|
| PCB-1 | 8.14 | | | | PCB-44 | ND | | 1.72 | |
| PCB-2 | ND | 0.890 | | | PCB-45 | ND | 0.590 | | |
| PCB-3 | ND | 0.879 | | | PCB-46 | ND | 0.622 | | |
| PCB-4/10 | ND | 5.31 | | | PCB-47 | 1.79 | | | J, B |
| PCB-5/8 | ND | 3.65 | | | PCB-48/75 | ND | | 0.976 | |
| PCB-6 | ND | 3.72 | | | PCB-50 | ND | 0.594 | | |
| PCB-7/9 | ND | 3.68 | | | PCB-51 | ND | 0.531 | | |
| PCB-11 | ND | 3.72 | | | PCB-52/69 | ND | | 1.80 | |
| PCB-12/13 | ND | 3.73 | | | PCB-53 | ND | 0.532 | | |
| PCB-14 | ND | 3.13 | | | PCB-54 | ND | 0.485 | | |
| PCB-15 | ND | 3.20 | | | PCB-55 | ND | 0.393 | | |
| PCB-16/32 | 6.94 | | | J | PCB-56/60 | 1.12 | | | J |
| PCB-17 | 3.82 | | | J | PCB-57 | ND | 0.401 | | |
| PCB-18 | 10.2 | | | | PCB-58 | ND | 0.384 | | |
| PCB-19 | ND | 0.885 | | | PCB-61/70 | ND | | 1.11 | |
| PCB-20/21/33 | 6.50 | | | J, B | PCB-62 | ND | 0.462 | | |
| PCB-22 | 2.84 | | | J | PCB-63 | ND | 0.387 | | |
| PCB-23 | ND | 0.902 | | | PCB-65 | ND | 0.472 | | |
| PCB-24/27 | ND | 0.500 | | | PCB-66/76 | 0.875 | | | J |
| PCB-25 | ND | 0.973 | | | PCB-67 | ND | 0.424 | | |
| PCB-26 | ND | 0.900 | | | PCB-68 | ND | 0.391 | | |
| PCB-28 | 8.47 | | | B | PCB-73 | ND | 0.425 | | |
| PCB-29 | ND | 0.870 | | | PCB-74 | ND | | 0.517 | |
| PCB-30 | ND | 0.572 | | | PCB-77 | ND | 0.495 | | |
| PCB-31 | 6.53 | | | B | PCB-78 | ND | 0.496 | | |
| PCB-34 | ND | 0.880 | | | PCB-79 | ND | 0.403 | | |
| PCB-35 | ND | 1.18 | | | PCB-80 | ND | 0.361 | | |
| PCB-36 | ND | 1.11 | | | PCB-81 | ND | 0.477 | | |
| PCB-37 | ND | 1.01 | | | PCB-82 | ND | 0.937 | | |
| PCB-38 | ND | 1.16 | | | PCB-83 | ND | 0.525 | | |
| PCB-39 | ND | 1.09 | | | PCB-84/92 | ND | 0.696 | | |
| PCB-40 | ND | 0.688 | | | PCB-85/116 | ND | 0.635 | | |
| PCB-41/64/71/72 | ND | | 1.08 | | PCB-86 | ND | 0.820 | | |
| PCB-42/59 | ND | 0.480 | | | PCB-87/117/125 | ND | 0.575 | | |
| PCB-43/49 | ND | | 1.71 | | PCB-88/91 | ND | 0.706 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW_145 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|----------------------------------|------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700798-02 | | Date Received: 29-Jun-2017 9:59 | | |
| Project: Stiller Pond | | | Sample Size: 1.01 L | | QC Batch: B7F0131 | | Date Extracted: 30-Jun-2017 7:22 | | |
| Date Collected: 28-Jun-2017 11:30 | | | | | Date Analyzed: 19-Jul-17 12:04 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 0.733 | | | PCB-137 | ND | 0.721 | | |
| PCB-90/101 | ND | 0.614 | | | PCB-138/163/164 | ND | | 2.23 | |
| PCB-93 | ND | 0.784 | | | PCB-139/149 | ND | 0.387 | | |
| PCB-94 | ND | 0.723 | | | PCB-140 | ND | 0.419 | | |
| PCB-95/98/102 | ND | 0.646 | | | PCB-141 | ND | 0.738 | | |
| PCB-96 | ND | 0.566 | | | PCB-142 | ND | 0.776 | | |
| PCB-97 | ND | 0.671 | | | PCB-144 | ND | 0.375 | | |
| PCB-99 | ND | 0.601 | | | PCB-145 | ND | 0.330 | | |
| PCB-100 | ND | 0.625 | | | PCB-146/165 | ND | 0.622 | | |
| PCB-103 | ND | 0.621 | | | PCB-147 | ND | 0.430 | | |
| PCB-104 | ND | 0.507 | | | PCB-148 | ND | 0.417 | | |
| PCB-105 | ND | 0.769 | | | PCB-150 | ND | 0.316 | | |
| PCB-106/118 | ND | 0.532 | | | PCB-151 | ND | 0.400 | | |
| PCB-107/109 | ND | 0.544 | | | PCB-152 | ND | 0.312 | | |
| PCB-108/112 | ND | 0.614 | | | PCB-153 | ND | | 2.35 | |
| PCB-110 | ND | | 1.60 | | PCB-154 | ND | 0.395 | | |
| PCB-111/115 | ND | 0.496 | | | PCB-155 | ND | 0.302 | | |
| PCB-113 | ND | 0.581 | | | PCB-156 | ND | 0.706 | | |
| PCB-114 | ND | 0.814 | | | PCB-157 | ND | 0.694 | | |
| PCB-119 | ND | 0.475 | | | PCB-158/160 | ND | 0.546 | | |
| PCB-120 | ND | 0.477 | | | PCB-159 | ND | 0.599 | | |
| PCB-121 | ND | 0.488 | | | PCB-166 | ND | 0.663 | | |
| PCB-122 | ND | 0.902 | | | PCB-167 | ND | 0.606 | | |
| PCB-123 | ND | 0.549 | | | PCB-168 | ND | 0.500 | | |
| PCB-124 | ND | 0.557 | | | PCB-169 | ND | 1.04 | | |
| PCB-126 | ND | 1.02 | | | PCB-170 | ND | 0.797 | | |
| PCB-127 | ND | 0.941 | | | PCB-171 | ND | 0.714 | | |
| PCB-128/162 | ND | 0.705 | | | PCB-172 | ND | 0.746 | | |
| PCB-129 | ND | 0.789 | | | PCB-173 | ND | 0.878 | | |
| PCB-130 | ND | 0.805 | | | PCB-174 | ND | 0.830 | | |
| PCB-131/133 | ND | 0.758 | | | PCB-175 | ND | 0.568 | | |
| PCB-132/161 | ND | 0.626 | | | PCB-176 | ND | 0.415 | | |
| PCB-134/143 | ND | 0.762 | | | PCB-177 | ND | 0.794 | | |
| PCB-135 | ND | 0.417 | | | PCB-178 | ND | 0.580 | | |
| PCB-136 | ND | 0.305 | | | PCB-179 | ND | 0.451 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

| Sample ID: GW_145 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|--------------------------------|--------------|----------------------------------|------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700798-02 | | Date Received: 29-Jun-2017 9:59 | | |
| Project: Stiller Pond | | | Sample Size: 1.01 L | | QC Batch: B7F0131 | | Date Extracted: 30-Jun-2017 7:22 | | |
| Date Collected: 28-Jun-2017 11:30 | | | | | Date Analyzed: 19-Jul-17 12:04 | | Column: ZB-1 | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-180 | ND | | 3.42 | | Total octaCB | ND | | 1.80 | |
| PCB-181 | ND | 0.727 | | | Total nonaCB | ND | 1.67 | | |
| PCB-182/187 | ND | | 1.78 | | DecaCB | ND | 1.05 | | |
| PCB-183 | ND | | 0.723 | | Total PCB | 57.2 | | | |
| PCB-184 | ND | 0.474 | | | | | | | |
| PCB-185 | ND | 0.741 | | | | | | | |
| PCB-186 | ND | 0.434 | | | | | | | |
| PCB-188 | ND | 0.438 | | | | | | | |
| PCB-189 | ND | 0.667 | | | | | | | |
| PCB-190 | ND | 0.599 | | | | | | | |
| PCB-191 | ND | 0.562 | | | | | | | |
| PCB-192 | ND | 0.609 | | | | | | | |
| PCB-193 | ND | 0.573 | | | | | | | |
| PCB-194 | ND | 0.987 | | | | | | | |
| PCB-195 | ND | 1.10 | | | | | | | |
| PCB-196/203 | ND | | 1.80 | | | | | | |
| PCB-197 | ND | 0.340 | | | | | | | |
| PCB-198 | ND | 0.512 | | | | | | | |
| PCB-199 | ND | 0.497 | | | | | | | |
| PCB-200 | ND | 0.388 | | | | | | | |
| PCB-201 | ND | 0.366 | | | | | | | |
| PCB-202 | ND | 0.396 | | | | | | | |
| PCB-204 | ND | 0.395 | | | | | | | |
| PCB-205 | ND | 0.868 | | | | | | | |
| PCB-206 | ND | 1.67 | | | | | | | |
| PCB-207 | ND | 0.661 | | | | | | | |
| PCB-208 | ND | 0.671 | | | | | | | |
| PCB-209 | ND | 1.05 | | | | | | | |
| Total monoCB | 8.14 | | | | | | | | |
| Total diCB | ND | 5.31 | | | | | | | |
| Total triCB | 45.3 | | | | | | | | |
| Total tetraCB | 3.79 | | 12.7 | | | | | | |
| Total pentaCB | ND | | 1.60 | | | | | | |
| Total hexaCB | ND | | 4.58 | | | | | | |
| Total heptaCB | ND | | 5.92 | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: GW_145

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-02 |
| Project: | Stiller Pond | Sample Size: | 1.01 L | Date Received: | 29-Jun-2017 9:59 |
| Date Collected: | 28-Jun-2017 11:30 | | | QC Batch: | B7F0131 |
| | | | | Date Analyzed: | 19-Jul-17 12:04 Column: ZB-1 |
| | | | | Date Extracted: | 30-Jun-2017 7:22 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 89.8 | 5 -145 | | 13C-PCB-170 | 74.1 | 10 -145 | |
| 13C-PCB-3 | 95.4 | 5 -145 | | 13C-PCB-180 | 79.5 | 10 -145 | |
| 13C-PCB-4 | 68.7 | 5 -145 | | 13C-PCB-188 | 102 | 10 -145 | |
| 13C-PCB-11 | 76.3 | 5 -145 | | 13C-PCB-189 | 60.4 | 10 -145 | |
| 13C-PCB-9 | 70.6 | 5 -145 | | 13C-PCB-194 | 91.7 | 10 -145 | |
| 13C-PCB-19 | 134 | 5 -145 | | 13C-PCB-202 | 75.8 | 10 -145 | |
| 13C-PCB-28 | 85.7 | 5 -145 | | 13C-PCB-206 | 118 | 10 -145 | |
| 13C-PCB-32 | 143 | 5 -145 | | 13C-PCB-208 | 153 | 10 -145 | H |
| 13C-PCB-37 | 78.6 | 5 -145 | | 13C-PCB-209 | 133 | 10 -145 | |
| 13C-PCB-47 | 91.4 | 5 -145 | | CRS 13C-PCB-79 | 89.5 | 10 -145 | |
| 13C-PCB-52 | 94.2 | 5 -145 | | 13C-PCB-178 | 101 | 10 -145 | |
| 13C-PCB-54 | 87.0 | 5 -145 | | | | | |
| 13C-PCB-70 | 93.1 | 5 -145 | | | | | |
| 13C-PCB-77 | 78.5 | 10 -145 | | | | | |
| 13C-PCB-80 | 90.4 | 10 -145 | | | | | |
| 13C-PCB-81 | 79.2 | 10 -145 | | | | | |
| 13C-PCB-95 | 90.6 | 10 -145 | | | | | |
| 13C-PCB-97 | 91.0 | 10 -145 | | | | | |
| 13C-PCB-101 | 90.2 | 10 -145 | | | | | |
| 13C-PCB-104 | 89.6 | 10 -145 | | | | | |
| 13C-PCB-105 | 57.2 | 10 -145 | | | | | |
| 13C-PCB-114 | 53.7 | 10 -145 | | | | | |
| 13C-PCB-118 | 84.0 | 10 -145 | | | | | |
| 13C-PCB-123 | 83.5 | 10 -145 | | | | | |
| 13C-PCB-126 | 54.0 | 10 -145 | | | | | |
| 13C-PCB-127 | 55.0 | 10 -145 | | | | | |
| 13C-PCB-138 | 98.2 | 10 -145 | | | | | |
| 13C-PCB-141 | 94.5 | 10 -145 | | | | | |
| 13C-PCB-153 | 98.4 | 10 -145 | | | | | |
| 13C-PCB-155 | 92.6 | 10 -145 | | | | | |
| 13C-PCB-156 | 77.0 | 10 -145 | | | | | |
| 13C-PCB-157 | 76.8 | 10 -145 | | | | | |
| 13C-PCB-159 | 85.9 | 10 -145 | | | | | |
| 13C-PCB-167 | 86.3 | 10 -145 | | | | | |
| 13C-PCB-169 | 63.4 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

Sample ID: GW_146

EPA Method 1668C

| Client Data | | Sample Data | | Laboratory Data | | | |
|-----------------|-------------------------------------|--------------|---------|-----------------|-----------------|-----------------|------------------|
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-03 | Date Received: | 29-Jun-2017 9:59 |
| Project: | Stiller Pond | Sample Size: | 1.02 L | QC Batch: | B7F0131 | Date Extracted: | 30-Jun-2017 7:22 |
| Date Collected: | 28-Jun-2017 10:40 | | | Date Analyzed: | 19-Jul-17 13:05 | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|-----------------|--------------|--------|------|------------|----------------|--------------|--------|-------|------------|
| PCB-1 | 9.40 | | | | PCB-44 | 3.17 | | | J, B |
| PCB-2 | 0.864 | | | J | PCB-45 | ND | | 0.724 | |
| PCB-3 | 3.93 | | | J | PCB-46 | 0.309 | | | J |
| PCB-4/10 | 11.3 | | | | PCB-47 | 4.15 | | | J, B |
| PCB-5/8 | 27.9 | | | | PCB-48/75 | ND | | 0.727 | |
| PCB-6 | 5.06 | | | | PCB-50 | ND | 0.195 | | |
| PCB-7/9 | ND | 0.467 | | | PCB-51 | 0.891 | | | J |
| PCB-11 | 13.9 | | | B | PCB-52/69 | 2.94 | | | J, B |
| PCB-12/13 | ND | 0.473 | | | PCB-53 | ND | | 0.615 | |
| PCB-14 | ND | 0.397 | | | PCB-54 | ND | 0.160 | | |
| PCB-15 | 5.52 | | | | PCB-55 | ND | 0.131 | | |
| PCB-16/32 | 9.78 | | | J | PCB-56/60 | ND | | 0.893 | |
| PCB-17 | 5.09 | | | | PCB-57 | ND | 0.133 | | |
| PCB-18 | 13.8 | | | | PCB-58 | ND | 0.127 | | |
| PCB-19 | 1.89 | | | J | PCB-61/70 | ND | | 1.60 | |
| PCB-20/21/33 | 7.43 | | | J, B | PCB-62 | ND | 0.148 | | |
| PCB-22 | 4.35 | | | J | PCB-63 | ND | 0.128 | | |
| PCB-23 | ND | 0.195 | | | PCB-65 | ND | 0.151 | | |
| PCB-24/27 | 1.02 | | | J | PCB-66/76 | ND | | 1.14 | |
| PCB-25 | 1.17 | | | J | PCB-67 | ND | 0.140 | | |
| PCB-26 | 1.74 | | | J | PCB-68 | ND | | 0.575 | |
| PCB-28 | 9.41 | | | B | PCB-73 | ND | 0.141 | | |
| PCB-29 | ND | 0.188 | | | PCB-74 | ND | | 0.616 | |
| PCB-30 | ND | 0.0997 | | | PCB-77 | ND | 0.142 | | |
| PCB-31 | 8.02 | | | B | PCB-78 | ND | 0.143 | | |
| PCB-34 | ND | 0.190 | | | PCB-79 | ND | 0.135 | | |
| PCB-35 | ND | 0.244 | | | PCB-80 | ND | 0.120 | | |
| PCB-36 | ND | 0.229 | | | PCB-81 | ND | 0.137 | | |
| PCB-37 | 1.55 | | | J | PCB-82 | ND | 0.119 | | |
| PCB-38 | ND | 0.240 | | | PCB-83 | ND | 0.0747 | | |
| PCB-39 | ND | 0.225 | | | PCB-84/92 | 0.735 | | | J |
| PCB-40 | ND | 0.220 | | | PCB-85/116 | ND | 0.0903 | | |
| PCB-41/64/71/72 | ND | | 2.12 | | PCB-86 | ND | 0.117 | | |
| PCB-42/59 | 1.06 | | | J | PCB-87/117/125 | ND | | 0.499 | |
| PCB-43/49 | 1.99 | | | J | PCB-88/91 | 0.339 | | | J |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

Sample ID: GW_146

EPA Method 1668C

| Client Data | | Sample Data | | Laboratory Data | | | |
|-----------------|-------------------------------------|--------------|---------|-----------------|-----------------|-----------------|------------------|
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-03 | Date Received: | 29-Jun-2017 9:59 |
| Project: | Stiller Pond | Sample Size: | 1.02 L | QC Batch: | B7F0131 | Date Extracted: | 30-Jun-2017 7:22 |
| Date Collected: | 28-Jun-2017 10:40 | | | Date Analyzed: | 19-Jul-17 13:05 | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|--------|-------|------------|-----------------|--------------|--------|-------|------------|
| PCB-89 | ND | 0.108 | | | PCB-137 | ND | 0.113 | | |
| PCB-90/101 | 1.50 | | | J | PCB-138/163/164 | 1.17 | | | J |
| PCB-93 | ND | 0.115 | | | PCB-139/149 | ND | | 0.884 | |
| PCB-94 | ND | 0.106 | | | PCB-140 | ND | 0.0744 | | |
| PCB-95/98/102 | 1.10 | | | J | PCB-141 | ND | 0.116 | | |
| PCB-96 | ND | 0.0828 | | | PCB-142 | ND | 0.126 | | |
| PCB-97 | ND | | 0.426 | | PCB-144 | ND | 0.0666 | | |
| PCB-99 | 0.675 | | | J | PCB-145 | ND | 0.0587 | | |
| PCB-100 | ND | 0.0915 | | | PCB-146/165 | ND | | 0.208 | |
| PCB-103 | ND | 0.0909 | | | PCB-147 | ND | 0.0763 | | |
| PCB-104 | ND | 0.0742 | | | PCB-148 | ND | 0.0741 | | |
| PCB-105 | 0.645 | | | J | PCB-150 | ND | 0.0561 | | |
| PCB-106/118 | 1.06 | | | J | PCB-151 | ND | 0.0711 | | |
| PCB-107/109 | ND | 0.0692 | | | PCB-152 | ND | 0.0554 | | |
| PCB-108/112 | ND | 0.0873 | | | PCB-153 | 0.866 | | | J |
| PCB-110 | 1.55 | | | J, B | PCB-154 | ND | 0.0702 | | |
| PCB-111/115 | 0.359 | | | J | PCB-155 | ND | 0.0536 | | |
| PCB-113 | ND | 0.0857 | | | PCB-156 | ND | 0.0806 | | |
| PCB-114 | ND | 0.144 | | | PCB-157 | ND | 0.0802 | | |
| PCB-119 | ND | 0.0675 | | | PCB-158/160 | ND | 0.0873 | | |
| PCB-120 | ND | 0.0679 | | | PCB-159 | ND | 0.0848 | | |
| PCB-121 | ND | 0.0716 | | | PCB-166 | ND | 0.0939 | | |
| PCB-122 | ND | 0.159 | | | PCB-167 | ND | 0.0811 | | |
| PCB-123 | ND | 0.0699 | | | PCB-168 | ND | 0.0811 | | |
| PCB-124 | ND | 0.0709 | | | PCB-169 | ND | 0.0970 | | |
| PCB-126 | ND | 0.165 | | | PCB-170 | ND | 0.0954 | | |
| PCB-127 | ND | 0.162 | | | PCB-171 | ND | 0.0899 | | |
| PCB-128/162 | ND | 0.0999 | | | PCB-172 | ND | 0.0938 | | |
| PCB-129 | ND | 0.126 | | | PCB-173 | ND | 0.110 | | |
| PCB-130 | ND | 0.126 | | | PCB-174 | ND | 0.104 | | |
| PCB-131/133 | ND | 0.123 | | | PCB-175 | ND | 0.0915 | | |
| PCB-132/161 | ND | | 0.211 | | PCB-176 | ND | 0.0669 | | |
| PCB-134/143 | ND | 0.124 | | | PCB-177 | ND | 0.0999 | | |
| PCB-135 | ND | 0.0740 | | | PCB-178 | ND | 0.0934 | | |
| PCB-136 | ND | | 0.236 | | PCB-179 | ND | 0.0726 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

Sample ID: GW_146

EPA Method 1668C

| Client Data | | Sample Data | | Laboratory Data | |
|-----------------|-------------------------------------|--------------|---------|-----------------|------------------------------|
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-03 |
| Project: | Stiller Pond | Sample Size: | 1.02 L | Date Received: | 29-Jun-2017 9:59 |
| Date Collected: | 28-Jun-2017 10:40 | | | QC Batch: | B7F0131 |
| | | | | Date Analyzed : | 19-Jul-17 13:05 Column: ZB-1 |
| | | | | Date Extracted: | 30-Jun-2017 7:22 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|--------|-------|------------|--------------|--------------|-------|------|------------|
| PCB-180 | ND | | 0.688 | | Total octaCB | 0.537 | | | |
| PCB-181 | ND | 0.0915 | | | Total nonaCB | ND | 0.149 | | |
| PCB-182/187 | 0.399 | | | J | DecaCB | ND | 0.129 | | |
| PCB-183 | ND | 0.0793 | | | Total PCB | 169 | | | |
| PCB-184 | ND | 0.0762 | | | | | | | |
| PCB-185 | ND | 0.0932 | | | | | | | |
| PCB-186 | ND | 0.0699 | | | | | | | |
| PCB-188 | ND | 0.0705 | | | | | | | |
| PCB-189 | ND | 0.0704 | | | | | | | |
| PCB-190 | ND | 0.0717 | | | | | | | |
| PCB-191 | ND | 0.0707 | | | | | | | |
| PCB-192 | ND | 0.0766 | | | | | | | |
| PCB-193 | ND | 0.0721 | | | | | | | |
| PCB-194 | 0.537 | | | J, B | | | | | |
| PCB-195 | ND | 0.103 | | | | | | | |
| PCB-196/203 | ND | 0.0590 | | | | | | | |
| PCB-197 | ND | 0.0421 | | | | | | | |
| PCB-198 | ND | 0.0635 | | | | | | | |
| PCB-199 | ND | 0.0617 | | | | | | | |
| PCB-200 | ND | 0.0481 | | | | | | | |
| PCB-201 | ND | 0.0453 | | | | | | | |
| PCB-202 | ND | 0.0491 | | | | | | | |
| PCB-204 | ND | 0.0490 | | | | | | | |
| PCB-205 | ND | 0.0818 | | | | | | | |
| PCB-206 | ND | 0.149 | | | | | | | |
| PCB-207 | ND | 0.0634 | | | | | | | |
| PCB-208 | ND | 0.0643 | | | | | | | |
| PCB-209 | ND | 0.129 | | | | | | | |
| Total monoCB | 14.2 | | | | | | | | |
| Total diCB | 63.7 | | | | | | | | |
| Total triCB | 65.2 | | | | | | | | |
| Total tetraCB | 14.5 | | 23.5 | | | | | | |
| Total pentaCB | 7.95 | | 8.88 | | | | | | |
| Total hexaCB | 2.03 | | 3.57 | | | | | | |
| Total heptaCB | 0.399 | | 1.09 | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: GW_146

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-03 |
| Project: | Stiller Pond | Sample Size: | 1.02 L | Date Received: | 29-Jun-2017 9:59 |
| Date Collected: | 28-Jun-2017 10:40 | | | QC Batch: | B7F0131 |
| | | | | Date Analyzed: | 19-Jul-17 13:05 Column: ZB-1 |
| | | | | Date Extracted: | 30-Jun-2017 7:22 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 89.7 | 5 -145 | | 13C-PCB-170 | 91.4 | 10 -145 | |
| 13C-PCB-3 | 98.1 | 5 -145 | | 13C-PCB-180 | 91.9 | 10 -145 | |
| 13C-PCB-4 | 71.1 | 5 -145 | | 13C-PCB-188 | 92.0 | 10 -145 | |
| 13C-PCB-11 | 73.4 | 5 -145 | | 13C-PCB-189 | 83.1 | 10 -145 | |
| 13C-PCB-9 | 72.0 | 5 -145 | | 13C-PCB-194 | 92.9 | 10 -145 | |
| 13C-PCB-19 | 116 | 5 -145 | | 13C-PCB-202 | 85.1 | 10 -145 | |
| 13C-PCB-28 | 87.0 | 5 -145 | | 13C-PCB-206 | 121 | 10 -145 | |
| 13C-PCB-32 | 126 | 5 -145 | | 13C-PCB-208 | 139 | 10 -145 | |
| 13C-PCB-37 | 80.4 | 5 -145 | | 13C-PCB-209 | 135 | 10 -145 | |
| 13C-PCB-47 | 94.7 | 5 -145 | | CRS 13C-PCB-79 | 99.1 | 10 -145 | |
| 13C-PCB-52 | 96.5 | 5 -145 | | 13C-PCB-178 | 105 | 10 -145 | |
| 13C-PCB-54 | 90.4 | 5 -145 | | | | | |
| 13C-PCB-70 | 94.6 | 5 -145 | | | | | |
| 13C-PCB-77 | 92.0 | 10 -145 | | | | | |
| 13C-PCB-80 | 92.8 | 10 -145 | | | | | |
| 13C-PCB-81 | 90.6 | 10 -145 | | | | | |
| 13C-PCB-95 | 89.2 | 10 -145 | | | | | |
| 13C-PCB-97 | 89.3 | 10 -145 | | | | | |
| 13C-PCB-101 | 88.9 | 10 -145 | | | | | |
| 13C-PCB-104 | 89.1 | 10 -145 | | | | | |
| 13C-PCB-105 | 52.0 | 10 -145 | | | | | |
| 13C-PCB-114 | 51.8 | 10 -145 | | | | | |
| 13C-PCB-118 | 93.5 | 10 -145 | | | | | |
| 13C-PCB-123 | 94.0 | 10 -145 | | | | | |
| 13C-PCB-126 | 51.6 | 10 -145 | | | | | |
| 13C-PCB-127 | 52.5 | 10 -145 | | | | | |
| 13C-PCB-138 | 91.5 | 10 -145 | | | | | |
| 13C-PCB-141 | 90.3 | 10 -145 | | | | | |
| 13C-PCB-153 | 91.8 | 10 -145 | | | | | |
| 13C-PCB-155 | 89.6 | 10 -145 | | | | | |
| 13C-PCB-156 | 95.9 | 10 -145 | | | | | |
| 13C-PCB-157 | 97.2 | 10 -145 | | | | | |
| 13C-PCB-159 | 90.8 | 10 -145 | | | | | |
| 13C-PCB-167 | 94.7 | 10 -145 | | | | | |
| 13C-PCB-169 | 97.6 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW_147 | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700798-04 | | Date Received: 29-Jun-2017 9:59 | | |
| Project: Stiller Pond | | | Sample Size: 1.01 L | | QC Batch: B7F0131 | | Date Extracted: 30-Jun-2017 7:22 | | |
| Date Collected: 28-Jun-2017 10:10 | | | | | Date Analyzed: 19-Jul-17 14:07 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-1 | 9.52 | | | | PCB-44 | 2.96 | | | J, B |
| PCB-2 | 0.845 | | | J | PCB-45 | 0.821 | | | J |
| PCB-3 | 3.56 | | | J | PCB-46 | ND | | 0.339 | |
| PCB-4/10 | 13.4 | | | | PCB-47 | ND | | 2.28 | |
| PCB-5/8 | 25.1 | | | | PCB-48/75 | 0.849 | | | J |
| PCB-6 | 4.15 | | | J | PCB-50 | ND | 0.151 | | |
| PCB-7/9 | ND | 0.592 | | | PCB-51 | ND | | 0.679 | |
| PCB-11 | 11.9 | | | B | PCB-52/69 | 3.16 | | | J, B |
| PCB-12/13 | ND | 0.600 | | | PCB-53 | ND | | 0.618 | |
| PCB-14 | ND | 0.504 | | | PCB-54 | ND | 0.123 | | |
| PCB-15 | 7.23 | | | | PCB-55 | ND | 0.101 | | |
| PCB-16/32 | 13.5 | | | | PCB-56/60 | ND | | 1.08 | |
| PCB-17 | 7.07 | | | | PCB-57 | ND | 0.104 | | |
| PCB-18 | 17.2 | | | | PCB-58 | ND | 0.0998 | | |
| PCB-19 | 2.18 | | | J | PCB-61/70 | 1.61 | | | J, B |
| PCB-20/21/33 | 10.6 | | | J, B | PCB-62 | ND | 0.118 | | |
| PCB-22 | 5.52 | | | | PCB-63 | ND | 0.100 | | |
| PCB-23 | ND | 0.176 | | | PCB-65 | ND | 0.120 | | |
| PCB-24/27 | 1.53 | | | J | PCB-66/76 | 1.65 | | | J |
| PCB-25 | 1.32 | | | J | PCB-67 | ND | 0.110 | | |
| PCB-26 | ND | | 2.56 | | PCB-68 | 0.253 | | | J |
| PCB-28 | 11.4 | | | B | PCB-73 | ND | 0.109 | | |
| PCB-29 | ND | 0.169 | | | PCB-74 | ND | | 0.619 | |
| PCB-30 | ND | 0.104 | | | PCB-77 | ND | 0.113 | | |
| PCB-31 | 11.6 | | | B | PCB-78 | ND | 0.111 | | |
| PCB-34 | ND | 0.171 | | | PCB-79 | ND | 0.104 | | |
| PCB-35 | ND | 0.207 | | | PCB-80 | ND | 0.0933 | | |
| PCB-36 | ND | 0.194 | | | PCB-81 | ND | 0.107 | | |
| PCB-37 | 1.75 | | | J | PCB-82 | ND | 0.145 | | |
| PCB-38 | ND | 0.204 | | | PCB-83 | ND | 0.0929 | | |
| PCB-39 | ND | 0.190 | | | PCB-84/92 | 0.583 | | | J |
| PCB-40 | ND | | 0.581 | | PCB-85/116 | ND | 0.112 | | |
| PCB-41/64/71/72 | 2.78 | | | J | PCB-86 | ND | 0.145 | | |
| PCB-42/59 | ND | | 0.778 | | PCB-87/117/125 | ND | | 0.527 | |
| PCB-43/49 | ND | | 1.74 | | PCB-88/91 | ND | 0.123 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: GW_147 | | | | | EPA Method 1668C | | | | |
|---|--------------|--------|---------------------|------------|---|--------------|----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700798-04 | | Date Received: 29-Jun-2017 9:59 | | |
| Project: Stiller Pond | | | Sample Size: 1.01 L | | QC Batch: B7F0131 | | Date Extracted: 30-Jun-2017 7:22 | | |
| Date Collected: 28-Jun-2017 10:10 | | | | | Date Analyzed: 19-Jul-17 14:07 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 0.127 | | | PCB-137 | ND | 0.100 | | |
| PCB-90/101 | ND | | 1.09 | | PCB-138/163/164 | ND | | 0.741 | |
| PCB-93 | ND | 0.136 | | | PCB-139/149 | 0.879 | | | J |
| PCB-94 | ND | 0.126 | | | PCB-140 | ND | 0.105 | | |
| PCB-95/98/102 | 1.21 | | | J | PCB-141 | ND | 0.102 | | |
| PCB-96 | ND | 0.102 | | | PCB-142 | ND | 0.112 | | |
| PCB-97 | ND | | 0.290 | | PCB-144 | ND | 0.0939 | | |
| PCB-99 | ND | | 0.404 | | PCB-145 | ND | 0.0827 | | |
| PCB-100 | ND | 0.112 | | | PCB-146/165 | ND | 0.0896 | | |
| PCB-103 | ND | 0.112 | | | PCB-147 | ND | 0.108 | | |
| PCB-104 | ND | 0.0912 | | | PCB-148 | ND | 0.104 | | |
| PCB-105 | 0.350 | | | J | PCB-150 | ND | 0.0790 | | |
| PCB-106/118 | 0.950 | | | J | PCB-151 | 0.346 | | | J |
| PCB-107/109 | ND | 0.0841 | | | PCB-152 | ND | 0.0781 | | |
| PCB-108/112 | ND | 0.109 | | | PCB-153 | 0.839 | | | J |
| PCB-110 | 1.23 | | | J, B | PCB-154 | ND | 0.0989 | | |
| PCB-111/115 | ND | | 0.293 | | PCB-155 | ND | 0.0755 | | |
| PCB-113 | ND | 0.101 | | | PCB-156 | ND | 0.0845 | | |
| PCB-114 | ND | 0.127 | | | PCB-157 | ND | 0.0844 | | |
| PCB-119 | ND | 0.0839 | | | PCB-158/160 | ND | 0.0805 | | |
| PCB-120 | ND | 0.0845 | | | PCB-159 | ND | 0.0791 | | |
| PCB-121 | ND | 0.0848 | | | PCB-166 | ND | 0.0876 | | |
| PCB-122 | ND | 0.140 | | | PCB-167 | ND | 0.0811 | | |
| PCB-123 | ND | 0.0850 | | | PCB-168 | ND | 0.0719 | | |
| PCB-124 | ND | 0.0861 | | | PCB-169 | ND | 0.105 | | |
| PCB-126 | ND | 0.160 | | | PCB-170 | ND | 0.0903 | | |
| PCB-127 | ND | 0.141 | | | PCB-171 | ND | 0.0865 | | |
| PCB-128/162 | ND | 0.0932 | | | PCB-172 | ND | 0.0903 | | |
| PCB-129 | ND | 0.116 | | | PCB-173 | ND | 0.106 | | |
| PCB-130 | ND | 0.112 | | | PCB-174 | ND | 0.100 | | |
| PCB-131/133 | ND | 0.109 | | | PCB-175 | ND | 0.0807 | | |
| PCB-132/161 | ND | 0.0902 | | | PCB-176 | ND | 0.0590 | | |
| PCB-134/143 | ND | 0.110 | | | PCB-177 | ND | 0.0961 | | |
| PCB-135 | ND | 0.104 | | | PCB-178 | ND | 0.0824 | | |
| PCB-136 | ND | 0.0762 | | | PCB-179 | ND | 0.0641 | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Sample ID: GW_147

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-04 |
| Project: | Stiller Pond | Sample Size: | 1.01 L | Date Received: | 29-Jun-2017 9:59 |
| Date Collected: | 28-Jun-2017 10:10 | | | QC Batch: | B7F0131 |
| | | | | Date Analyzed: | 19-Jul-17 14:07 |
| | | | | Column: | ZB-1 |
| | | | | Date Extracted: | 30-Jun-2017 7:22 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|--------|-------|------------|--------------|--------------|-------|------|------------|
| PCB-180 | ND | 0.0870 | | | Total octaCB | 0.196 | | | |
| PCB-181 | ND | 0.0881 | | | Total nonaCB | ND | 0.206 | | |
| PCB-182/187 | ND | | 0.415 | | DecaCB | ND | 0.126 | | |
| PCB-183 | ND | 0.0700 | | | Total PCB | 180 | | | |
| PCB-184 | ND | 0.0673 | | | | | | | |
| PCB-185 | ND | 0.0897 | | | | | | | |
| PCB-186 | ND | 0.0617 | | | | | | | |
| PCB-188 | ND | 0.0622 | | | | | | | |
| PCB-189 | ND | 0.0674 | | | | | | | |
| PCB-190 | ND | 0.0678 | | | | | | | |
| PCB-191 | ND | 0.0681 | | | | | | | |
| PCB-192 | ND | 0.0737 | | | | | | | |
| PCB-193 | ND | 0.0694 | | | | | | | |
| PCB-194 | ND | 0.195 | | | | | | | |
| PCB-195 | ND | 0.217 | | | | | | | |
| PCB-196/203 | 0.196 | | | J | | | | | |
| PCB-197 | ND | 0.0733 | | | | | | | |
| PCB-198 | ND | 0.111 | | | | | | | |
| PCB-199 | ND | 0.107 | | | | | | | |
| PCB-200 | ND | 0.0838 | | | | | | | |
| PCB-201 | ND | 0.0789 | | | | | | | |
| PCB-202 | ND | 0.0855 | | | | | | | |
| PCB-204 | ND | 0.0853 | | | | | | | |
| PCB-205 | ND | 0.171 | | | | | | | |
| PCB-206 | ND | 0.206 | | | | | | | |
| PCB-207 | ND | 0.0968 | | | | | | | |
| PCB-208 | ND | 0.0982 | | | | | | | |
| PCB-209 | ND | 0.126 | | | | | | | |
| Total monoCB | 13.9 | | | | | | | | |
| Total diCB | 61.8 | | | | | | | | |
| Total triCB | 83.7 | | 86.2 | | | | | | |
| Total tetraCB | 14.1 | | 22.8 | | | | | | |
| Total pentaCB | 4.32 | | 6.93 | | | | | | |
| Total hexaCB | 2.06 | | 2.81 | | | | | | |
| Total heptaCB | ND | | 0.415 | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

| Sample ID: GW_147 | | | | EPA Method 1668C | | | |
|---|------|---------------------|------------|---|------|----------------------------------|------------|
| Client Data | | Sample Data | | Laboratory Data | | | |
| Name: Walla Walla Basin Watershed Council | | Matrix: Aqueous | | Lab Sample: 1700798-04 | | Date Received: 29-Jun-2017 9:59 | |
| Project: Stiller Pond | | Sample Size: 1.01 L | | QC Batch: B7F0131 | | Date Extracted: 30-Jun-2017 7:22 | |
| Date Collected: 28-Jun-2017 10:10 | | | | Date Analyzed: 19-Jul-17 14:07 Column: ZB-1 | | | |
| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
| IS 13C-PCB-1 | 73.8 | 5 -145 | | 13C-PCB-170 | 88.9 | 10 -145 | |
| 13C-PCB-3 | 80.2 | 5 -145 | | 13C-PCB-180 | 90.1 | 10 -145 | |
| 13C-PCB-4 | 50.7 | 5 -145 | | 13C-PCB-188 | 94.7 | 10 -145 | |
| 13C-PCB-11 | 70.3 | 5 -145 | | 13C-PCB-189 | 83.6 | 10 -145 | |
| 13C-PCB-9 | 51.3 | 5 -145 | | 13C-PCB-194 | 93.3 | 10 -145 | |
| 13C-PCB-19 | 108 | 5 -145 | | 13C-PCB-202 | 84.5 | 10 -145 | |
| 13C-PCB-28 | 76.7 | 5 -145 | | 13C-PCB-206 | 147 | 10 -145 | H |
| 13C-PCB-32 | 126 | 5 -145 | | 13C-PCB-208 | 155 | 10 -145 | H |
| 13C-PCB-37 | 76.4 | 5 -145 | | 13C-PCB-209 | 199 | 10 -145 | H |
| 13C-PCB-47 | 93.7 | 5 -145 | | CRS 13C-PCB-79 | 95.5 | 10 -145 | |
| 13C-PCB-52 | 96.1 | 5 -145 | | 13C-PCB-178 | 106 | 10 -145 | |
| 13C-PCB-54 | 86.4 | 5 -145 | | | | | |
| 13C-PCB-70 | 92.1 | 5 -145 | | | | | |
| 13C-PCB-77 | 85.7 | 10 -145 | | | | | |
| 13C-PCB-80 | 88.4 | 10 -145 | | | | | |
| 13C-PCB-81 | 87.0 | 10 -145 | | | | | |
| 13C-PCB-95 | 91.6 | 10 -145 | | | | | |
| 13C-PCB-97 | 92.9 | 10 -145 | | | | | |
| 13C-PCB-101 | 92.5 | 10 -145 | | | | | |
| 13C-PCB-104 | 88.2 | 10 -145 | | | | | |
| 13C-PCB-105 | 58.2 | 10 -145 | | | | | |
| 13C-PCB-114 | 58.6 | 10 -145 | | | | | |
| 13C-PCB-118 | 92.2 | 10 -145 | | | | | |
| 13C-PCB-123 | 93.3 | 10 -145 | | | | | |
| 13C-PCB-126 | 53.9 | 10 -145 | | | | | |
| 13C-PCB-127 | 57.1 | 10 -145 | | | | | |
| 13C-PCB-138 | 95.1 | 10 -145 | | | | | |
| 13C-PCB-141 | 96.4 | 10 -145 | | | | | |
| 13C-PCB-153 | 97.3 | 10 -145 | | | | | |
| 13C-PCB-155 | 85.9 | 10 -145 | | | | | |
| 13C-PCB-156 | 89.1 | 10 -145 | | | | | |
| 13C-PCB-157 | 91.7 | 10 -145 | | | | | |
| 13C-PCB-159 | 92.2 | 10 -145 | | | | | |
| 13C-PCB-167 | 93.3 | 10 -145 | | | | | |
| 13C-PCB-169 | 86.6 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

Sample ID: INTAKE

EPA Method 1668C

| Client Data | | Sample Data | | Laboratory Data | | | |
|-----------------|-------------------------------------|--------------|---------|-----------------|-----------------|-----------------|------------------|
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-05 | Date Received: | 29-Jun-2017 9:59 |
| Project: | Stiller Pond | Sample Size: | 1.00 L | QC Batch: | B7F0131 | Date Extracted: | 30-Jun-2017 7:22 |
| Date Collected: | 28-Jun-2017 11:50 | | | Date Analyzed: | 19-Jul-17 15:08 | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|-----------------|--------------|-------|-------|------------|----------------|--------------|-------|-------|------------|
| PCB-1 | ND | 0.413 | | | PCB-44 | ND | | 2.35 | |
| PCB-2 | ND | 0.347 | | | PCB-45 | ND | | 0.420 | |
| PCB-3 | 5.22 | | | | PCB-46 | ND | 0.335 | | |
| PCB-4/10 | ND | 2.43 | | | PCB-47 | 3.26 | | | J, B |
| PCB-5/8 | ND | 1.64 | | | PCB-48/75 | 0.484 | | | J |
| PCB-6 | ND | 1.67 | | | PCB-50 | ND | 0.300 | | |
| PCB-7/9 | ND | 1.65 | | | PCB-51 | ND | | 0.922 | |
| PCB-11 | 12.0 | | | B | PCB-52/69 | 3.37 | | | J, B |
| PCB-12/13 | ND | 1.67 | | | PCB-53 | ND | | 0.344 | |
| PCB-14 | ND | 1.40 | | | PCB-54 | ND | 0.245 | | |
| PCB-15 | ND | 1.43 | | | PCB-55 | ND | 0.219 | | |
| PCB-16/32 | 2.20 | | | J | PCB-56/60 | ND | | 1.36 | |
| PCB-17 | 1.34 | | | J | PCB-57 | ND | 0.230 | | |
| PCB-18 | 3.54 | | | J | PCB-58 | ND | 0.220 | | |
| PCB-19 | ND | 0.388 | | | PCB-61/70 | 3.18 | | | J, B |
| PCB-20/21/33 | 1.80 | | | J, B | PCB-62 | ND | 0.242 | | |
| PCB-22 | ND | | 1.41 | | PCB-63 | ND | 0.221 | | |
| PCB-23 | ND | 0.403 | | | PCB-65 | ND | 0.247 | | |
| PCB-24/27 | ND | 0.233 | | | PCB-66/76 | ND | | 1.99 | |
| PCB-25 | ND | 0.435 | | | PCB-67 | ND | 0.243 | | |
| PCB-26 | ND | 0.402 | | | PCB-68 | ND | 0.204 | | |
| PCB-28 | 3.07 | | | J, B | PCB-73 | ND | 0.229 | | |
| PCB-29 | ND | 0.389 | | | PCB-74 | ND | | 0.673 | |
| PCB-30 | ND | 0.251 | | | PCB-77 | ND | 0.266 | | |
| PCB-31 | 2.74 | | | J, B | PCB-78 | ND | 0.267 | | |
| PCB-34 | ND | 0.393 | | | PCB-79 | ND | 0.225 | | |
| PCB-35 | ND | 0.567 | | | PCB-80 | ND | 0.202 | | |
| PCB-36 | ND | 0.531 | | | PCB-81 | ND | 0.257 | | |
| PCB-37 | ND | | 0.978 | | PCB-82 | ND | 0.375 | | |
| PCB-38 | ND | 0.558 | | | PCB-83 | ND | 0.214 | | |
| PCB-39 | ND | 0.522 | | | PCB-84/92 | ND | | 1.78 | |
| PCB-40 | ND | 0.359 | | | PCB-85/116 | ND | 0.258 | | |
| PCB-41/64/71/72 | 2.06 | | | J | PCB-86 | ND | 0.333 | | |
| PCB-42/59 | ND | | 0.725 | | PCB-87/117/125 | 1.79 | | | J |
| PCB-43/49 | ND | | 1.69 | | PCB-88/91 | 0.821 | | | J |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| Sample ID: INTAKE | | | | | EPA Method 1668C | | | | |
|---|--------------|-------|---------------------|------------|---|--------------|----------------------------------|-------|------------|
| Client Data | | | Sample Data | | Laboratory Data | | | | |
| Name: Walla Walla Basin Watershed Council | | | Matrix: Aqueous | | Lab Sample: 1700798-05 | | Date Received: 29-Jun-2017 9:59 | | |
| Project: Stiller Pond | | | Sample Size: 1.00 L | | QC Batch: B7F0131 | | Date Extracted: 30-Jun-2017 7:22 | | |
| Date Collected: 28-Jun-2017 11:50 | | | | | Date Analyzed: 19-Jul-17 15:08 Column: ZB-1 | | | | |
| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
| PCB-89 | ND | 0.308 | | | PCB-137 | ND | 0.371 | | |
| PCB-90/101 | ND | | 3.62 | | PCB-138/163/164 | 4.50 | | | J |
| PCB-93 | ND | 0.312 | | | PCB-139/149 | 3.99 | | | J |
| PCB-94 | ND | 0.287 | | | PCB-140 | ND | 0.193 | | |
| PCB-95/98/102 | 4.29 | | | J | PCB-141 | 1.06 | | | J |
| PCB-96 | ND | 0.219 | | | PCB-142 | ND | 0.420 | | |
| PCB-97 | 1.22 | | | J | PCB-144 | ND | 0.173 | | |
| PCB-99 | 2.80 | | | J | PCB-145 | ND | 0.152 | | |
| PCB-100 | ND | 0.242 | | | PCB-146/165 | ND | | 0.726 | |
| PCB-103 | ND | 0.240 | | | PCB-147 | ND | 0.198 | | |
| PCB-104 | ND | 0.196 | | | PCB-148 | ND | 0.192 | | |
| PCB-105 | 1.41 | | | J | PCB-150 | ND | 0.145 | | |
| PCB-106/118 | 4.21 | | | J | PCB-151 | ND | | 0.949 | |
| PCB-107/109 | ND | 0.217 | | | PCB-152 | ND | 0.144 | | |
| PCB-108/112 | ND | 0.250 | | | PCB-153 | ND | | 3.95 | |
| PCB-110 | 5.40 | | | B | PCB-154 | ND | 0.182 | | |
| PCB-111/115 | ND | | 0.898 | | PCB-155 | ND | 0.139 | | |
| PCB-113 | ND | 0.244 | | | PCB-156 | ND | 0.354 | | |
| PCB-114 | ND | 0.353 | | | PCB-157 | ND | 0.354 | | |
| PCB-119 | ND | 0.193 | | | PCB-158/160 | ND | 0.301 | | |
| PCB-120 | ND | 0.194 | | | PCB-159 | ND | 0.321 | | |
| PCB-121 | ND | 0.194 | | | PCB-166 | ND | 0.356 | | |
| PCB-122 | ND | 0.391 | | | PCB-167 | ND | 0.330 | | |
| PCB-123 | ND | 0.220 | | | PCB-168 | ND | 0.270 | | |
| PCB-124 | ND | 0.223 | | | PCB-169 | ND | 0.506 | | |
| PCB-126 | ND | 0.512 | | | PCB-170 | ND | 0.329 | | |
| PCB-127 | ND | 0.418 | | | PCB-171 | ND | 0.307 | | |
| PCB-128/162 | ND | 0.378 | | | PCB-172 | 0.632 | | | J |
| PCB-129 | ND | 0.435 | | | PCB-173 | ND | 0.377 | | |
| PCB-130 | ND | 0.414 | | | PCB-174 | ND | 0.357 | | |
| PCB-131/133 | ND | 0.410 | | | PCB-175 | ND | 0.243 | | |
| PCB-132/161 | 1.26 | | | J | PCB-176 | ND | 0.178 | | |
| PCB-134/143 | ND | 0.412 | | | PCB-177 | ND | 0.341 | | |
| PCB-135 | 0.623 | | | J | PCB-178 | ND | 0.248 | | |
| PCB-136 | ND | 0.140 | | | PCB-179 | 0.792 | | | J |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

EMPC - Estimated maximum possible concentration

See individual congeners for qualifiers.

Sample ID: INTAKE

EPA Method 1668C

| Client Data | | Sample Data | | Laboratory Data | | | |
|-----------------|-------------------------------------|--------------|---------|-----------------|-----------------|-----------------|------------------|
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-05 | Date Received: | 29-Jun-2017 9:59 |
| Project: | Stiller Pond | Sample Size: | 1.00 L | QC Batch: | B7F0131 | Date Extracted: | 30-Jun-2017 7:22 |
| Date Collected: | 28-Jun-2017 11:50 | | | Date Analyzed: | 19-Jul-17 15:08 | Column: | ZB-1 |

| Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers | Analyte | Conc. (pg/L) | DL | EMPC | Qualifiers |
|---------------|--------------|-------|-------|------------|--------------|--------------|-------|-------|------------|
| PCB-180 | 3.44 | | | J | Total octaCB | 2.30 | | | |
| PCB-181 | ND | 0.313 | | | Total nonaCB | ND | | 0.471 | |
| PCB-182/187 | ND | | 1.57 | | DecaCB | ND | 0.529 | | |
| PCB-183 | 0.801 | | | J | Total PCB | 85.6 | | | |
| PCB-184 | ND | 0.202 | | | | | | | |
| PCB-185 | ND | 0.318 | | | | | | | |
| PCB-186 | ND | 0.186 | | | | | | | |
| PCB-188 | ND | 0.187 | | | | | | | |
| PCB-189 | ND | 0.265 | | | | | | | |
| PCB-190 | ND | 0.247 | | | | | | | |
| PCB-191 | ND | 0.242 | | | | | | | |
| PCB-192 | ND | 0.262 | | | | | | | |
| PCB-193 | ND | 0.246 | | | | | | | |
| PCB-194 | ND | 0.568 | | | | | | | |
| PCB-195 | ND | 0.633 | | | | | | | |
| PCB-196/203 | 1.09 | | | J | | | | | |
| PCB-197 | ND | 0.146 | | | | | | | |
| PCB-198 | ND | 0.221 | | | | | | | |
| PCB-199 | 1.21 | | | J | | | | | |
| PCB-200 | ND | 0.167 | | | | | | | |
| PCB-201 | ND | 0.158 | | | | | | | |
| PCB-202 | ND | 0.171 | | | | | | | |
| PCB-204 | ND | 0.170 | | | | | | | |
| PCB-205 | ND | 0.500 | | | | | | | |
| PCB-206 | ND | 0.641 | | | | | | | |
| PCB-207 | ND | 0.302 | | | | | | | |
| PCB-208 | ND | | 0.471 | | | | | | |
| PCB-209 | ND | 0.529 | | | | | | | |
| Total monoCB | 5.22 | | | | | | | | |
| Total diCB | 12.0 | | | | | | | | |
| Total triCB | 14.7 | | 17.1 | | | | | | |
| Total tetraCB | 12.4 | | 22.8 | | | | | | |
| Total pentaCB | 22.0 | | 28.3 | | | | | | |
| Total hexaCB | 11.4 | | 17.1 | | | | | | |
| Total heptaCB | 5.66 | | 7.24 | | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

EMPC - Estimated maximum possible concentration

Sample ID: INTAKE

EPA Method 1668C

| | | | | | |
|--------------------|-------------------------------------|--------------------|---------|------------------------|------------------|
| Client Data | | Sample Data | | Laboratory Data | |
| Name: | Walla Walla Basin Watershed Council | Matrix: | Aqueous | Lab Sample: | 1700798-05 |
| Project: | Stiller Pond | Sample Size: | 1.00 L | Date Received: | 29-Jun-2017 9:59 |
| Date Collected: | 28-Jun-2017 11:50 | | | QC Batch: | B7F0131 |
| | | | | Date Analyzed: | 19-Jul-17 15:08 |
| | | | | Column: | ZB-1 |

| Labeled Standard | %R | LCL-UCL | Qualifiers | Labeled Standard | %R | LCL-UCL | Qualifiers |
|------------------|------|---------|------------|------------------|------|---------|------------|
| IS 13C-PCB-1 | 72.5 | 5 -145 | | 13C-PCB-170 | 65.9 | 10 -145 | |
| 13C-PCB-3 | 83.5 | 5 -145 | | 13C-PCB-180 | 68.2 | 10 -145 | |
| 13C-PCB-4 | 58.4 | 5 -145 | | 13C-PCB-188 | 86.9 | 10 -145 | |
| 13C-PCB-11 | 68.3 | 5 -145 | | 13C-PCB-189 | 56.1 | 10 -145 | |
| 13C-PCB-9 | 62.2 | 5 -145 | | 13C-PCB-194 | 78.4 | 10 -145 | |
| 13C-PCB-19 | 116 | 5 -145 | | 13C-PCB-202 | 76.1 | 10 -145 | |
| 13C-PCB-28 | 62.8 | 5 -145 | | 13C-PCB-206 | 137 | 10 -145 | |
| 13C-PCB-32 | 124 | 5 -145 | | 13C-PCB-208 | 140 | 10 -145 | |
| 13C-PCB-37 | 60.0 | 5 -145 | | 13C-PCB-209 | 179 | 10 -145 | H |
| 13C-PCB-47 | 79.1 | 5 -145 | | CRS 13C-PCB-79 | 77.0 | 10 -145 | |
| 13C-PCB-52 | 81.3 | 5 -145 | | 13C-PCB-178 | 98.6 | 10 -145 | |
| 13C-PCB-54 | 81.7 | 5 -145 | | | | | |
| 13C-PCB-70 | 76.6 | 5 -145 | | | | | |
| 13C-PCB-77 | 70.3 | 10 -145 | | | | | |
| 13C-PCB-80 | 75.0 | 10 -145 | | | | | |
| 13C-PCB-81 | 68.3 | 10 -145 | | | | | |
| 13C-PCB-95 | 82.5 | 10 -145 | | | | | |
| 13C-PCB-97 | 79.7 | 10 -145 | | | | | |
| 13C-PCB-101 | 79.6 | 10 -145 | | | | | |
| 13C-PCB-104 | 85.2 | 10 -145 | | | | | |
| 13C-PCB-105 | 47.9 | 10 -145 | | | | | |
| 13C-PCB-114 | 48.5 | 10 -145 | | | | | |
| 13C-PCB-118 | 75.7 | 10 -145 | | | | | |
| 13C-PCB-123 | 76.6 | 10 -145 | | | | | |
| 13C-PCB-126 | 40.7 | 10 -145 | | | | | |
| 13C-PCB-127 | 45.1 | 10 -145 | | | | | |
| 13C-PCB-138 | 83.5 | 10 -145 | | | | | |
| 13C-PCB-141 | 84.9 | 10 -145 | | | | | |
| 13C-PCB-153 | 86.0 | 10 -145 | | | | | |
| 13C-PCB-155 | 88.2 | 10 -145 | | | | | |
| 13C-PCB-156 | 69.6 | 10 -145 | | | | | |
| 13C-PCB-157 | 72.5 | 10 -145 | | | | | |
| 13C-PCB-159 | 74.3 | 10 -145 | | | | | |
| 13C-PCB-167 | 72.4 | 10 -145 | | | | | |
| 13C-PCB-169 | 58.9 | 10 -145 | | | | | |

DL - Sample specific estimated detection limit

LCL-UCL- Lower control limit - upper control limit

See individual congeners for qualifiers.

DATA QUALIFIERS & ABBREVIATIONS

| | |
|--------------|--|
| B | This compound was also detected in the method blank. |
| D | Dilution |
| E | The associated compound concentration exceeded the calibration range of the instrument. |
| H | Recovery and/or RPD was outside laboratory acceptance limits. |
| I | Chemical Interference |
| J | The amount detected is below the Reporting Limit/LOQ. |
| M | Estimated Maximum Possible Concentration. (CA Region 2 projects only) |
| * | See Cover Letter |
| Conc. | Concentration |
| NA | Not applicable |
| ND | Not Detected |
| TEQ | Toxic Equivalency |

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

CERTIFICATIONS

| Accrediting Authority | Certificate Number |
|---|---------------------------|
| Arkansas Department of Environmental Quality | 17-015-0 |
| California Department of Health – ELAP | 2892 |
| DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005 | 3091.01 |
| Florida Department of Health | E87777-18 |
| Hawaii Department of Health | N/A |
| Louisiana Department of Environmental Quality | 01977 |
| Maine Department of Health | 2016026 |
| Minnesota Department of Health | 1175673 |
| Nevada Division of Environmental Protection | CA004132017-1 |
| New Hampshire Environmental Accreditation Program | 207716 |
| New Jersey Department of Environmental Protection | CA003 |
| New York Department of Health | 11411 |
| Oregon Laboratory Accreditation Program | 4042-008 |
| Pennsylvania Department of Environmental Protection | 013 |
| Texas Commission on Environmental Quality | T104704189-17-8 |
| Virginia Department of General Services | 8621 |
| Washington Department of Ecology | C584 |
| Wisconsin Department of Natural Resources | 998036160 |

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

| MATRIX: Air | |
|--|--------|
| Description of Test | Method |
| Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans | EPA 23 |

| MATRIX: Biological Tissue | |
|---|----------------|
| Description of Test | Method |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

| MATRIX: Drinking Water | |
|--|----------|
| Description of Test | Method |
| 2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS | EPA 1613 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |

| MATRIX: Non-Potable Water | |
|---|----------------|
| Description of Test | Method |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613B |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS | EPA 1699 |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Dioxin by GC/HRMS | EPA 613 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

| MATRIX: Solids | |
|---|-----------|
| Description of Test | Method |
| Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS | EPA 1613 |
| Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope | EPA 1613B |

Walla Walla Basin Aquifer Recharge Annual Report Water Year 2017

| | |
|---|----------------|
| Dilution GC/HRMS | |
| Brominated Diphenyl Ethers by HRGC/HRMS | EPA 1614A |
| Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS | EPA 1668A/C |
| Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS | EPA 537 |
| Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS | EPA 8280A/B |
| Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS | EPA 8290/8290A |

Sample Log-in Checklist

Vista Work Order #: 1700798 TAT std

| | | | |
|-----------------------------|--|----------------------|-----------------------------------|
| Samples Arrival: | Date/Time 6/29/17 0959 | Initials: WNS | Location: WR-2 Shelf/Rack: N/A |
| Logged In: | Date/Time 06/29/17 1510 | Initials: JAB | Location: WR-2 Shelf/Rack: A3 |
| Delivered By: | FedEx <input type="checkbox"/> UPS <input checked="" type="checkbox"/> On Trac <input type="checkbox"/> GSO <input type="checkbox"/> DHL <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Other <input type="checkbox"/> | | |
| Preservation: | Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> Dry Ice <input type="checkbox"/> None <input type="checkbox"/> | | |
| Temp °C: 16.7 (uncorrected) | Time: 1002 | Thermometer ID: IR-2 | |
| Temp °C: 16.3 (corrected) | Probe used: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | |

| | | YES | NO | NA |
|--|---|-------------------------------------|-------------------------------------|--|
| Adequate Sample Volume Received? | A/B | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Holding Time Acceptable? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Container(s) Intact? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Custody Seals Intact? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Shipping Documentation Present? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Airbill | Trk # 1Z 6ZE 3F7 01 0800 0830 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample Container Intact? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Sample Custody Seals Intact? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Chain of Custody / Sample Documentation Present? | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| COC Anomaly/Sample Acceptance Form completed? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| If Chlorinated or Drinking Water Samples, Acceptable Preservation? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Preservation Documented: | Na ₂ S ₂ O ₃ <input type="checkbox"/> Trizma <input type="checkbox"/> None <input type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
| Shipping Container | Vista <input checked="" type="checkbox"/> Client <input type="checkbox"/> Retain <input checked="" type="checkbox"/> Return <input type="checkbox"/> Dispose <input type="checkbox"/> | | | |

Comments:

**APPENDIX C - WALLA WALLA BASIN AQUIFER RECHARGE WATER QUALITY
AND WATER LEVEL MONITORING QUALITY ASSURANCE PROJECT PLAN**

http://www.wwbwc.org/images/Projects/AR/Reports/QAPP_1.3_WA.pdf