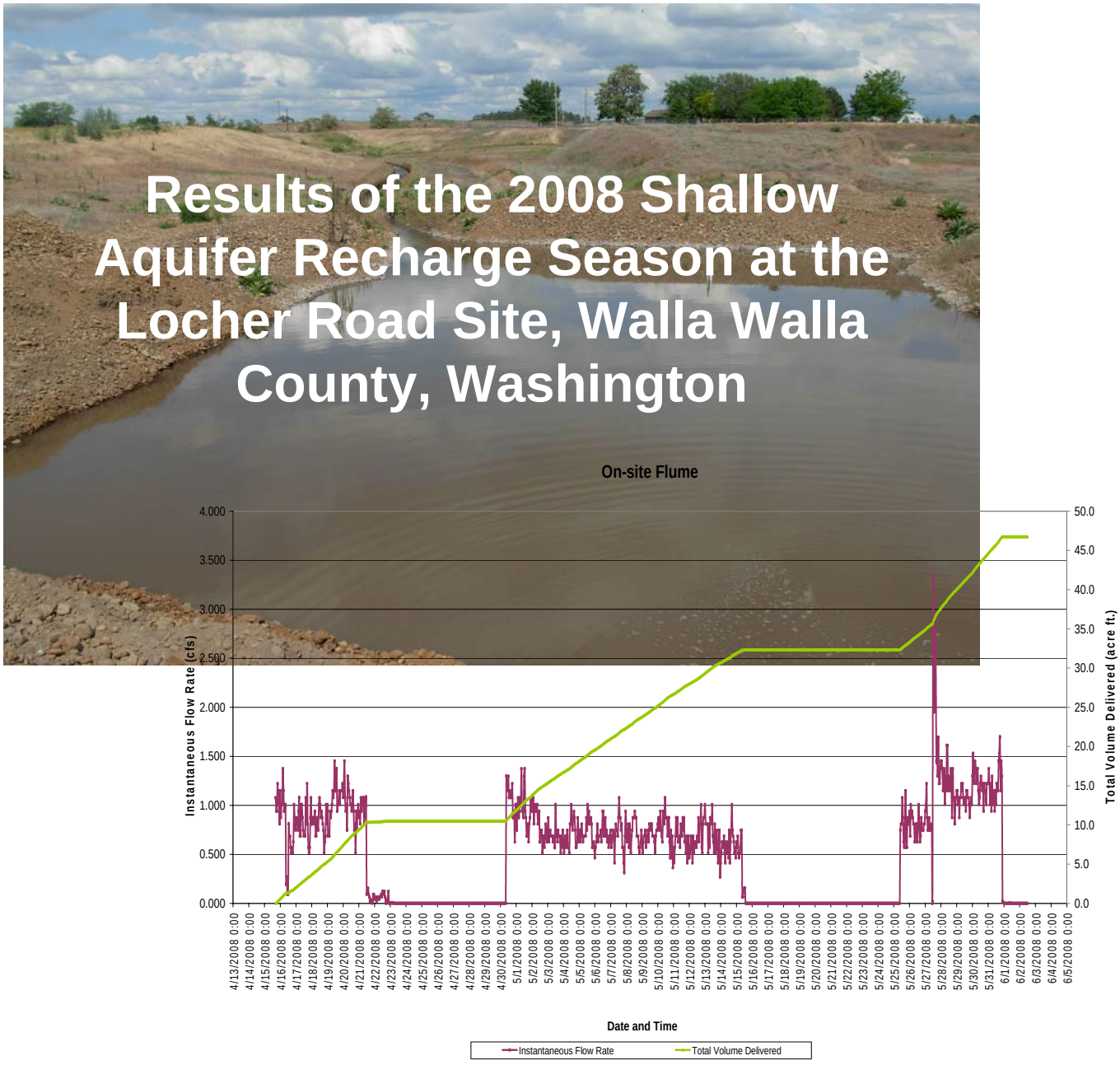
Results of the 2008 Shallow Aquifer Recharge Season at the Locher Road Site, Walla Walla County, Washington



Prepared for Gardena Farms Irrigation District #13 and
Washington Department of Ecology
By
GSI Water Solutions, Inc.
1020 North Center Parkway, Suite F
Kennewick, Washington 99336
January 2009

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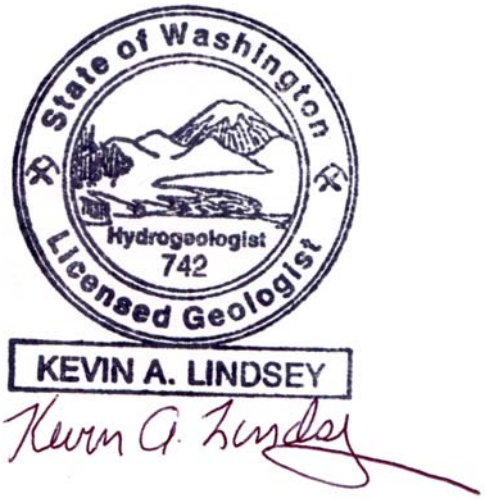

Table of Contents

List of Tables

List of Figures

List of Appendices

1.0 – INTRODUCTION

The Locher Road shallow aquifer recharge project (the Project) is one of several test projects in the Walla Walla Basin (the Basin) being done to evaluate shallow aquifer recharge (SAR) methods and effects. SAR is being explored by water resource stakeholders, in conjunction with other activities in the Basin, to help address water supply, stream flow, water table level, and habitat issues. Data collected from the Locher Road site (the Site) will be used to address these issues in the immediate area of the Site and contribute to basin-wide planning and water resource management efforts. It is anticipated that SAR activities at the Site will be carried out for several years, or SAR seasons.

This report summarizes the results of the 2008 SAR season, and presents recommendations for future SAR test activities at the Site. As such, this report does not present final conclusions relative to the project. Site location and basic layout are shown in Figures 1 and 2.

As the project progresses over the next several years, future project reports will build on the data and recommendations presented in this, previous, and subsequent reports. A description of the basic Site physical conditions and infrastructure used for the project can be found in previous reports (Kennedy/Jenks, 2006 and GSI, 2007). Kennedy/Jenks (2006) also describes background conditions interpreted for the Site prior to the start of SAR work in early 2007, Site physical conditions, and the regulatory constraints under which the work can be conducted. That information will not be repeated in this report.

The data and information described in this report was collected by GSI Water Solutions, Inc. (GSI) (formerly Groundwater Solutions, Inc.) under contract to Gardena Farms Irrigation District #13 (GFID). This report continues work previously completed by GSI scientists then working as employees of Kennedy/Jenks Consultants (Kennedy/Jenks, 2006) working under subcontract to HDR, Inc. The previous work, and the work described herein, was done using funding supplied by the Washington Department of Ecology (WADOE). The permit authority to operate the Site was granted by WADOE under a temporary water use authorization to GFID.

Topics and information presented in this report include the following:

- A timeline listing the major events associated with the 2008 SAR season.
- Site modifications and changes relative to the 2007 season.
- Rates and volumes of water delivered to the Site.
- Alluvial aquifer water levels and Mud Creek staff gauge measurements before, during, and after the 2008 season.
- Results of groundwater and surface water quality monitoring for the 2007 and 2008 SAR seasons.
- Conclusions and recommendations.

In addition, this report is accompanied by appendices that contain data and information collected during the course of the 2008 season. These appendices are as follows:

- Appendix A. Field notes.
- Appendix B. Water quality data.

For the work described herein, the project team includes the following people:

- Stuart Durfee – GFID Manager, project manager for this Project, and Site operator.
- Kevin Lindsey, Ph.D., L.H.G. – GSI project manager and hydrogeologist.
- John Fazio, P.E. – Fazio Engineering, project engineer, working under subcontract to GSI.
- Jon Travis – GSI, technical support.
- Terry Tolan, L. H.G. – GSI, technical review, hydrogeologist.
- Troy Baker – WWBWC, water quality sampling

The work conducted for this project could not have been done without the cooperation of the Site landowner, Mrs. Patricia Case, the efforts of GFID staff, and the endorsement of the GFID Board of Directors. We thank these people for their support.

2.0 - 2008 TIMELINE

The Site, including turnouts, control gates, and water distribution was manually operated by the GFID personnel. GFID staff adjusted the flow into the Site as needed to prevent overtopping of the recharge basins and to meet the conditions and provisions of the temporary water use authorization. GFID staff recorded the time and date of specific actions in field notes, and provided those notes to GSI for use in the preparation of this report. Staff gauge readings also were periodically taken by GFID staff and recorded in project field notes.

Given the pilot nature of this project, the Site was operated to gain both experience and information on operations and to collect information and data to use in evaluating the possible effects of SAR on shallow alluvial aquifer groundwater. The primary actions associated with this involved changing the rate water was delivered to the Site (GFID staff primarily responsible) and collecting and evaluating monitoring data (GSI staff primarily responsible).

Below is a chronological list of basic project actions conducted for the 2008 season, beginning in January 2008.

- 23 January 2008 – Basic water quality parameters collected for wells L-1, L-2 and L-3.

- 13 February 2008 – Basic water quality parameters and SOC's collected for wells L-1, L-2 and L-3.

- 17 March 2008 – Data on transducers found to be corrupted, restart logging at all locations. Data from water level monitoring during the summer months was lost; a problem caused by software incompatibility with transducers.

- 01 April 2008 – GSI staff cleaned tumbleweeds out of ditches and basins. Between 01 and 15 April GFID brought in an excavation subcontractor to increase the size of the lower basin.

- 15 April 2008 – Start of second SAR season. Started filling basins at 1115 hours with water being delivered at 0.68 cfs.

- 16 April 2008 – Shutdown operations at 0810 hours to allow basins to drain so transducers can be installed in basins. Install transducer in lower basin at 1100 hours. Upper basin was still too full to install transducer. Resume test at 1215 hours running at 0.68 cfs.

- 18 April 2008 – Increased flow onto the Site to 0.94 cfs at 0955 hours.

- 20 April 2008 – Flow was reduced to 0.74 cfs at 0806 hours to lower the level in lower basin.

- 21 April 2008 – Shutdown onto the Site at 0800 hours due to low flow in the Walla Walla.

- 37 April 2008 – Basic water quality parameters and SOC's were collected for wells L-1, L-2, and L-3.

- 30 April 2008 – Restart operations at 0900 hours with flow onto the Site of 0.68 cfs.

- 02 May 2008 – Increased flow rate to 0.74 cfs at 1540 hours.

- 15 May 2008 – Shutdown operations at 0857 hours due to Walla Walla River flow at Beet Road exceeding 1000 cfs. Excavation work in the lower basin continued between 15 and 25 May.

- 25 May 2008 – Resume operations at 1000 hours and with flow onto the Site of 0.68 cfs.

- 27 May 2008 – Shutdown operations at 1017 hours to do excavating work on connecting trench. Resume operations at 1150 hours at flow rate of 2.99 cfs and then reduced flow to 2.03 cfs at 1500 hours.

- 28 May 2008 – Flow reduced to 1.07 cfs to prevent lower basin from overflowing.

- 30 May 2008 – Flow increased to 1.29 cfs.

- 31 May 2008 – Flow at 1.14 cfs at 1003 hours and increased to 1.37 at 1022 hours to fill lower basin. Operations shut down for the end of the season at 2115 hours.

3.0 - ON-SITE WORK

Work done on-site for the 2008 SAR season focused primarily on increasing the size of the lower basin and deepening the connecting trench between the upper and lower basin. This work was done in two phases, one before the start of the 2008 SAR season and one between the second and third recharge events. In the first phase the lower basin was increased in size to about three times its original size, from approximately 8300 cubic feet to 24,000 cubic feet capacity. In the second phase the basin was increased in size to approximately four times its original size, to approximately 32,000 cubic feet capacity. Figures 3, 4, and 5 show some of the changes done at the Site for and during the 2008 SAR season.

4.0 - WATER VOLUME USED IN 2008 SAR SEASON

The volume of water delivered to the Site was measured at a flume constructed at the turn-out from Burlingame Canal. A staff gauge for manual readings and a digital transducer for electronic readings were installed in the flume. A conversion chart for the staff gauge (see GSI, 2007) was prepared that allowed the direct conversion of staff gauge readings, in feet, to flow in cfs. Direct staff gauge readings were recorded in field notebooks by GSI and GFID staff during each Site visit. The digital transducer data was collected hourly and subsequently converted to flow estimates using the equation:

$$Q = 10.18 \times h^{1.576}$$

Where:

h = height of water above flume sill

Q = flow in cfs through flume

Approximately 46.7 acre-feet of water (Figure 6) was delivered to the Site during the 27 operating days of the 2008 season, for a total daily average of approximately 1.73 acre-feet/day. Instantaneous flow onto the Site ranged from approximately 0.5 to 1.0 cfs. The highest measured flow was approximately 3.3 cfs on 27 May 2008.

The 2008 season can be broken into three separate recharge events. Each event is separated by a hiatus in recharge due to either low or high flows in the Walla Walla River.

The first event occurred between 15 April 2008 and 21 April 2008. During the first event the average flow diverted to the Site through the flume was 0.9 cfs with a total volume of 10.49 acre-feet. Average daily recharge during the first event was approximately 1.75 acre-feet/day. On 21 April 2008 flow in the Walla Walla River was less than 360 cfs, making it too low to continue operations and SAR was stopped.

The second event occurred when Walla Walla River flow returned to acceptable levels

on 30 April 2008, allowing SAR activities to restart. The second event continued until 15 May 2008 when the flow rate in the Walla Walla River exceeded 1000 cfs and SAR was again stopped. During this event average flow diverted to the Site was 0.7 cfs with a total volume of 21.85 acre-feet and an average daily SAR rate of 1.46 acre-feet/day.

The third event occurred when Walla Walla River flow returned to acceptable levels on 25 May 2008 and SAR activities were restarted. The third event continued until the end of the SAR season on 31 May 2008. During this event average flow diverted to the site was 1.1 cfs with a total volume of 14.42 acre-feet and an average daily SAR rate of 2.4 acre-feet/day.

5.0 - WATER LEVELS IN THE SUPRABASALT SEDIMENT AQUIFER

As was done in the 2007 SAR season, water levels were tracked in on-site monitoring wells L-1, L-2, and L-3. In addition, WADOE staff provided data from a well owned by the agency (referred to in the remainder of this report as the WWGRVL well). Water level data from all four wells was collected using digital transducers.

Water level data collected for the 2008 SAR season from the four wells is summarized below and shown in Figure 7. Due to corruption of the data saved on the digital transducers, data collection for this season started on 21 February 2008 at L-1, 17 March 2008 at L-2, and 16 April 2008 at L-3. These problems were due to software incompatibility between the transducers and software changes.

The water level in well L-1 (up-gradient of the Site) generally increased in the two months prior to the start of testing, from a low of approximately 643.94 feet above mean sea level (amsl) on 25 February 2008, to a high of approximately 650.02 feet amsl on 01 June 2008 one day after recharge ended. After 01 June 2008, water levels began to decline. Water levels continued to decline throughout the summer of 2008. Water levels in L-1 began to rise a few hours after the beginning of delivery water to the basins and began to decline hours after the water was shut off. Each of the 3 events are readily discernable, with water level in the well during the second (longest event) being generally stable.

Water levels in well L-2 (down-gradient of the Site) exhibited less dramatic fluctuations than observed in either L-1 or L-3 (Figure 7). Water levels in well L-2 generally increased in the one month period prior to the start of testing. The lowest water level elevation, approximately 642.63 feet amsl on 17 March 2008, was one month prior to the start of the 2008 SAR season. It then rose to a high of approximately 646.50 feet amsl on 10 May 2008, 21 days before the test season ended.

Well L-3 is, like L-2, located down-gradient of the Site and it displayed water level changes similar to those seen in L-1 (Figure 7). Pre-season data is not available for well L-3 due to corrupt data. The transducer was installed the day testing began and immediately showed a response to testing, rising to a high of approximately 647.58 feet amsl on 31 May 2008, the last day of testing. The water level began to decline after shut down on 15 May 2008 reaching a low of 645.56 on 25 May 2008. The final water level elevation measured was higher than the water level measured at the start of the 2008 SAR season.

Well WWGRVL shows the same basic trends as wells L-1, L-2, and L-3 (Figure 7) for the first and second recharge events. Data was not available for the third recharge event of the 2008 season. Water levels in the three on-site monitoring wells and the WWGRVL well are interpreted to have responded to each recharge event during the 2008 season SAR activities. Water levels in wells began to rise within one to two days of the start of the SAR season. The up-gradient well L-1 and down-gradient well L-3 showed more changes in water level than the down-gradient well L-2. Water levels in all of the monitoring wells were higher after the SAR season than at the beginning.

Water level also was tracked in Mud Creek at two locations for the 2008 recharge season. The first location was at the culvert were Locher Road crosses the stream, and the second location was at the culvert where Frog Hollow Road crosses the stream. The Locher Road location is within a few hundred feet of the Site and essentially monitors stream levels at and up-gradient of the Site. The Frog Hollow Road site is approximately 2 miles northwest of, and down-gradient of, the Site and is used to monitor stream levels as they might potentially be influenced by Locher Road SAR. Figure 8 shows the depth of water at the two gauges as recorded by transducers. This data has not been converted to flow volume and is used to provide a general guide to estimate relative changes in stream flow before, during, and after the 2008 SAR season.

General observations with respect to this data are as follows. At Locher Road, stream depth (and probably flow) is decreasing during the period of the first two SAR events. In mid-May, stream depth begins to increase, a trend that continues for several weeks following the end of the 2008 SAR season. Because the water table at this location is several tens of feet below the stream channel bottom, these changes in potential flow are interpreted to be caused by factors unrelated to SAR at the site.

At Frog Hollow Road, stream depth (and probably flow) is more variable than at Locher Road. Depth is increasing before, during, and after the first event of the 2008 SAR season. During the second event, stream depth generally declines. This trend changes before the third event, with stream depth increasing before, during, and after the SAR event. The causes of these flow changes are not readily apparent, although since increasing and decreasing water depth trends start before corresponding SAR changes, it seems likely, although not certain, that stream depth changes at Frog Hollow Road are directly tied to Locher Road SAR.

6.0 - WATER QUALITY

This section summarizes the results of water quality sampling and analysis done during the 2008 SAR season. Water quality samples were collected from the three site monitoring wells (L-1, L-2, and L-3), Burlingame Canal at the turn out to the Site, and Mud Creek at Locher Road and at State Line Road.

6.1 Field and Basic Water Quality

Water quality data for the 2008 SAR season and 2007 SAR season are listed in Table 1 and summarized in this section. Complete laboratory results, including laboratory QA records, are reproduced in Appendix B. The water quality parameters reported on herein are pH, temperature, electrical conductivity, turbidity, nitrate-nitrogen, total dissolved solids, chloride, soluble reactive phosphorus, chemical oxygen demand, total

coliform, and E-coli.

For this summary each parameter noted above is reviewed individually, with the review focusing on how measured concentrations varied between the 2007 and 2008 SAR seasons. It should be noted, prior to continuing with this review of water quality, that several problems encountered during the SAR season are manifest in the data. Pre-season surface water sampling was not done because water was not flowing in the Burlingame Canal on scheduled sampling events. Temperature data was not reported because of problems with field equipment. Early sampling in the beginning of the season (late April) was not done because start days were continually postponed due to low Walla Walla River flows.

General observations with respect to basic and field water quality during the 2008 SAR season are summarized below:

- Pre-season field pH for source water was not measured because the canal was dry during the sampling events. Pre-season pH in all groundwater sampled ranged from 7.07 to 7.15. During the 2008 SAR season source water and groundwater pH was at, or below, pH measured during the 2007 SAR season (<7.5).

- Electrical conductivity (EC) in pre-season groundwater, both up- and down-gradient, was between 150 and 400 micro Siemens' per centimeter (mS/cm). During the 2008 SAR season EC in source water and groundwater generally was at, or near, values measured during the 2007 season.

- Nitrate-N in source water and groundwater before, during, and after the 2008 SAR season was highly variable, ranging from <1 mg/L to almost 6 mg/L.

- Total dissolved solids (TDS) concentration in source water was <65 mg/L. TDS in all three wells was at, or slightly higher than, concentrations measured during the 2007 season.

- Chloride concentration in source water and all three monitoring wells generally was less than 7 mg/L for the 2008 SAR season.

- Soluble reactive phosphorus (SRP) concentrations in source water and groundwater was generally higher during the 2007 season.

For the 2008 SAR season, source water and groundwater generally appear to show similar field and basic water quality values. Water quality parameter concentrations generally increased and decreased together, although not always by the same amount. This data generally suggest surface water and groundwater, throughout the vicinity of the Site, display a high degree of continuity. Given the depth to groundwater described earlier, this continuity generally is related to surface water bodies leaking into, and recharging, the shallow alluvial aquifer. In addition, the data collected for the 2008 SAR season is interpreted to indicate SAR at the Site did not significantly impact groundwater quality to any degree different than is occurring as a result of normal canal leakage.

6.2 SOC Water Quality

Water samples were analyzed for a variety of synthetic organic compounds (SOC) and related chemicals. Analytical results are presented in Table 2 and are summarized as follows:

- One SOC detection was recorded for bromacil in pre-season up-gradient groundwater.

- Several herbicides were found in Mud Creek, but not in Site groundwater or source water (the Burlingame Canal).

The SOC data is interpreted to indicate that those compounds analyzed for are rarely, if ever, present in groundwater and at very small concentrations. Inconsistent occurrence, both temporally and spatially, and low concentrations suggest these detections represent intermittent background conditions and that the Site SAR testing has an extremely low, to no, potential to contribute to the presence of these compounds in groundwater.

7.0 - COMPARISONS BETWEEN 2007 and 2008 SAR SEASONS

This section presents a preliminary qualitative comparison between data collected and observations made during the 2007 SAR season and the recently completed, 2008 season. In particular:

- The 2008 SAR season was longer than the 2007 season, although similar to the 2007 season it was periodically interrupted because of flow conditions in the Walla Walla River.

- During the 2007 season the recharging capacity of the Site was approximately 1 acre-foot/day. For the 2008 season following the expansion of the lower basin late in the season, average daily infiltration rates increased to approximately 2.4 acre-feet/day.

- Water levels in down-gradient wells L-1 and L-3 rose 1.5 to 2.0 feet during the 2008 season. This appears to have been slightly less than the water level rises of up to 2 feet seen in the 2007 season. Water levels observed in L-1 also appear to have been slightly lower than those seen in the 2007 season. In the WWGRYL well water level change also appears to have been slightly lower in 2008 than in 2007.

- Field, basic water, and SOC quality constituents for source water and groundwater during the 2008 SAR season appear to be similar to the 2007 season. There were concentration fluctuations in basic and field parameters constituents, but no significant changes readily attributed to Site SAR activities.

8.0 - SUMMARY AND RECOMMENDATIONS

8.1 Summary

This report presents the results of the 2008 SAR season at the Site and very preliminary interpretations of some of the data collected to-date. This work continued to evaluate the feasibility of using SAR to help restore depleted shallow sediment aquifer groundwater levels and improve flow in spring creeks and streams. SAR at the Site is permitted under a temporary seasonal permit granted by the WADOE. This permit authorizes SAR activity for a single season and specifies operating and monitoring conditions.

The 2008 SAR season began on 15 April 2008 and ending on 31 May 2008. Because of minimum flow requirements on the Walla Walla River, SAR activities in the period were broken into 3 separate events. A total of approximately 46.7 acre-feet of water was recharged to the suprabasalt aquifer during the 27 operational days of the 2008 SAR season.

The suprabasalt sediment aquifer beneath the Site did respond to SAR activities, rising, and falling as the recharge rate increased and decreased. It is not known exactly how far the water table response to 2008 SAR season activities extends beyond the Site. Following the end of the SAR season, water levels began to fall within 1 to 2 days of the end of operations.

Based on the field and basic water quality parameters measured to-date, SAR activities at the Site are interpreted to have not degraded groundwater quality in the area. This data does suggest a high degree of hydraulic continuity between local surface and groundwater. A few SOC's have been detected intermittently. However, the timing of these detections suggests that they were not caused by SAR operations and the measured concentrations represent background concentrations related to off-site activities.

8.2 Recommendations

Based on the results of the 2008 SAR season described in this report, there are several recommendations for changes to Site operation and testing for the 2008/2009 SAR season. These include:

- Conduct one or more infiltration test in the lower Basin to better constrain on-site infiltration rates and aquifer response to SAR.

- Conduct an aquifer test in a proposed new, purpose-built test well, and use this data to further constrain aquifer properties and SAR impact on the aquifer in the project area.

- Over the past few years the WWBWC, working cooperatively with WADOE, has installed several groundwater monitoring wells in the vicinity of the Site. Data from these wells, and several more in the Site area that could be constructed early in 2009, should be incorporated into Locher Road SAR project for the 2008/2009 SAR season.

- The 2008/2009 SAR season report should provide a comprehensive review of all Locher Road activities, from the inception of the project up to the summer of 2009.

9.0 - REFERENCES CITED

Kennedy/Jenks, 2005, Proposed monitoring and test plan, Locher Road SAR Test Site, Walla Walla County, Washington, Revision 3. Consultants report prepared for EES/HDR, 21 pgs, 1 table, 2 figures.

GSI, 2007, Results of the first season of shallow aquifer SAR testing at the Locher Road Site, Walla Walla County, Washington. Consultants report prepared for Gardena Farms Irrigation District #13 and Washington Department of Ecology, 23 pgs, 5 tables, 17 figures, 5 Appendices.

Figures

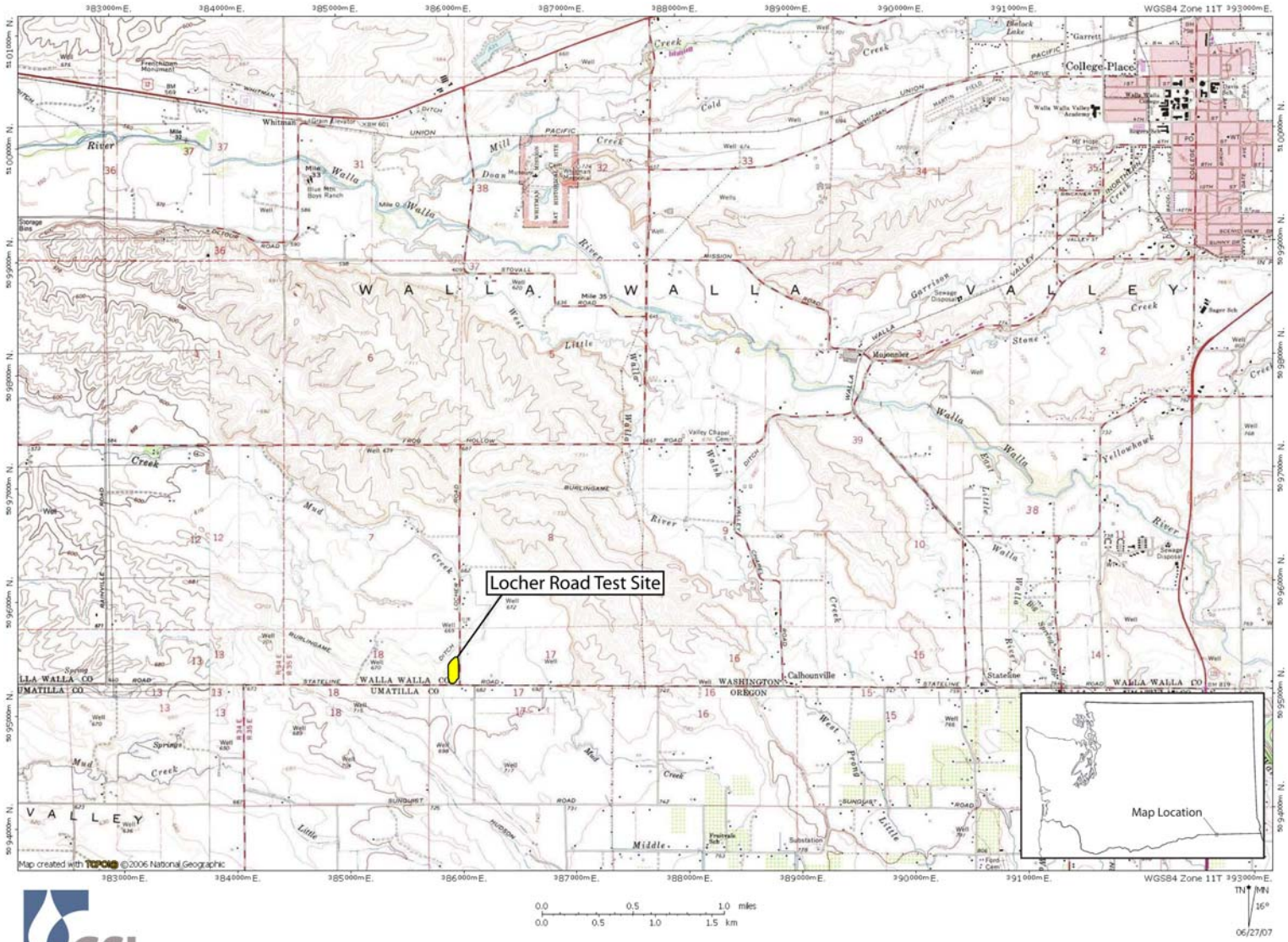

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Figure 1. Area and regional setting.

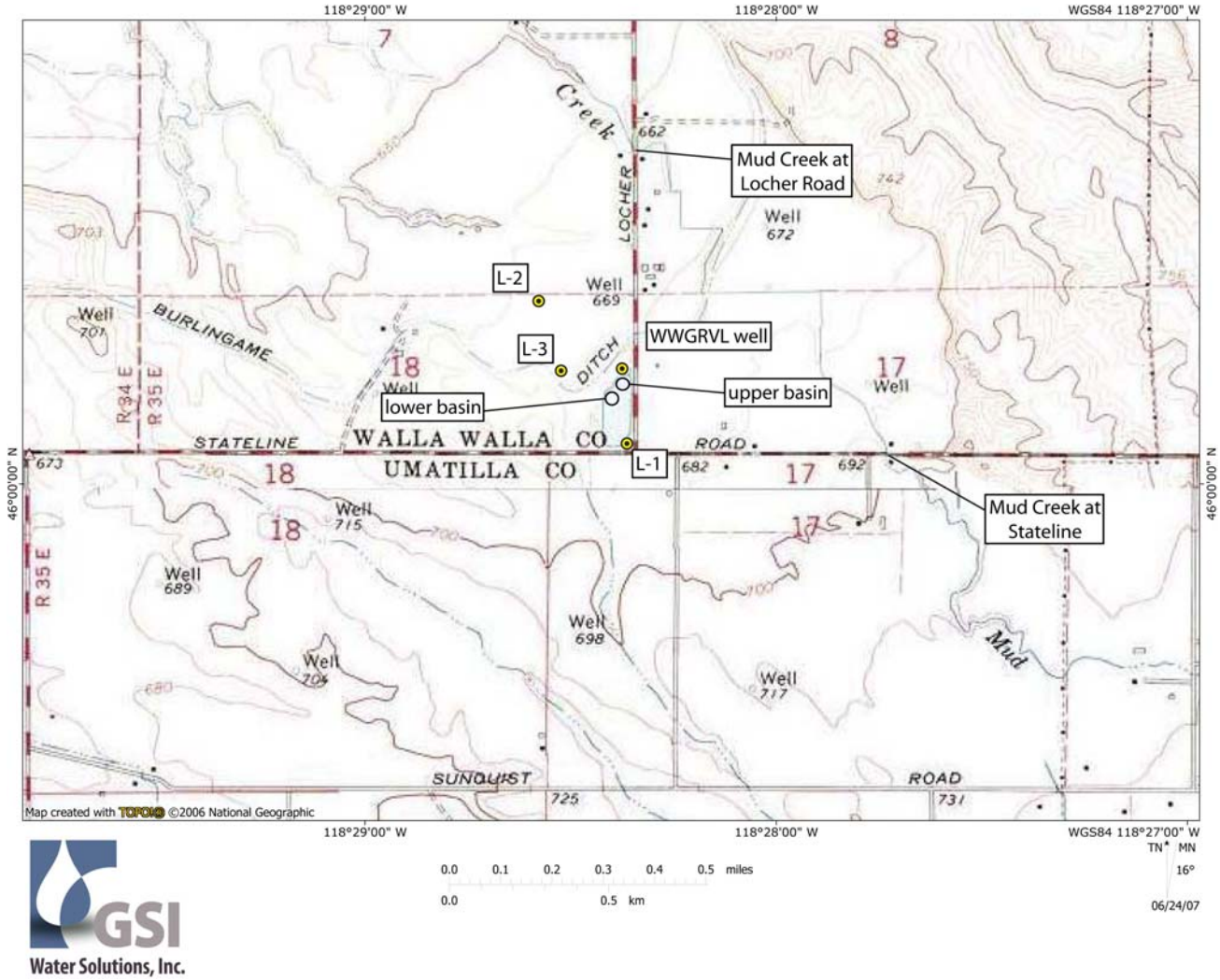

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Figure 2. Local setting, site location, and layout.

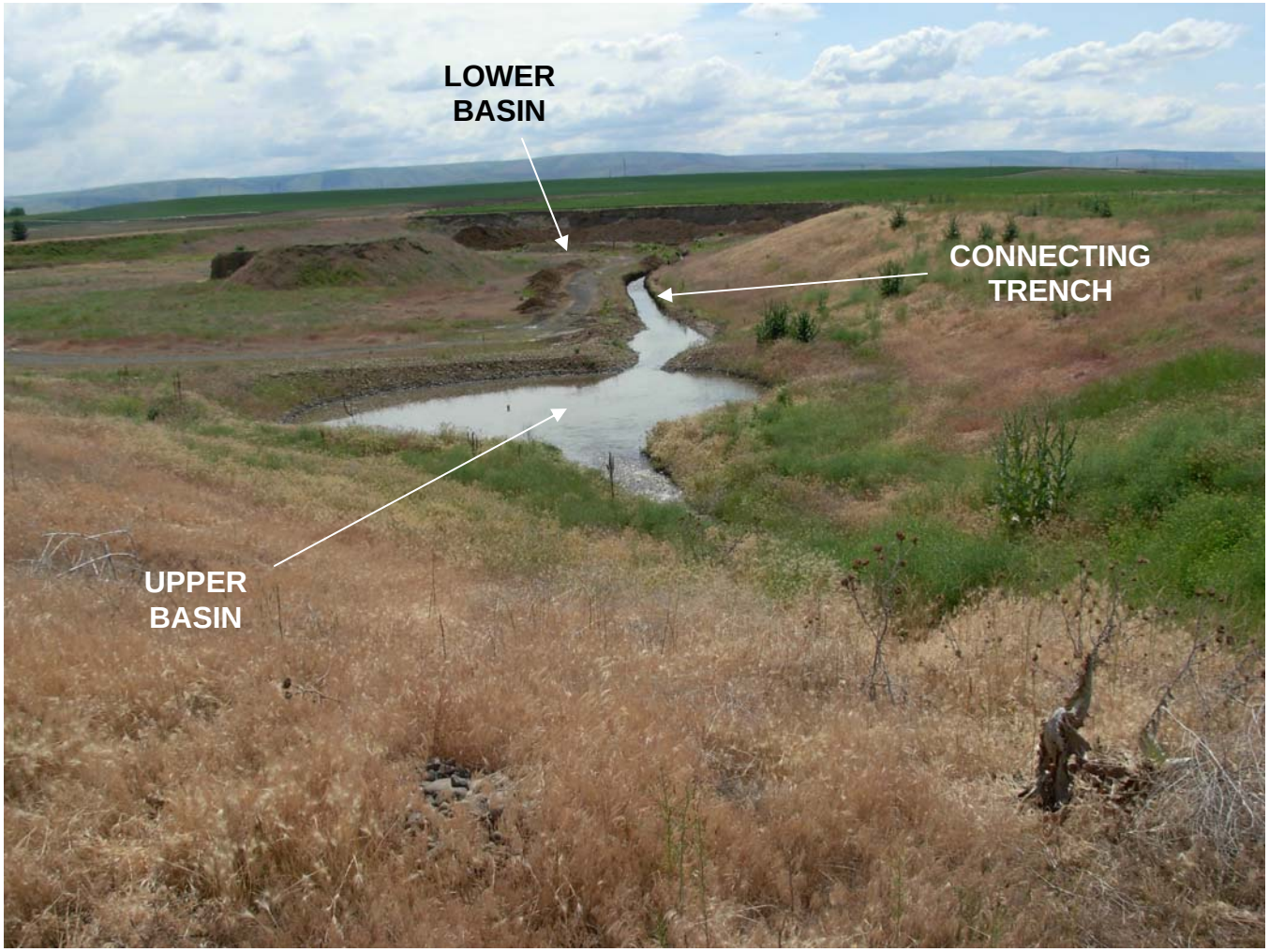

Figure 3. Photograph of the Site looking past the upper basin towards the lower basin along the connecting trench which was deepened for the 2008 recharge season.

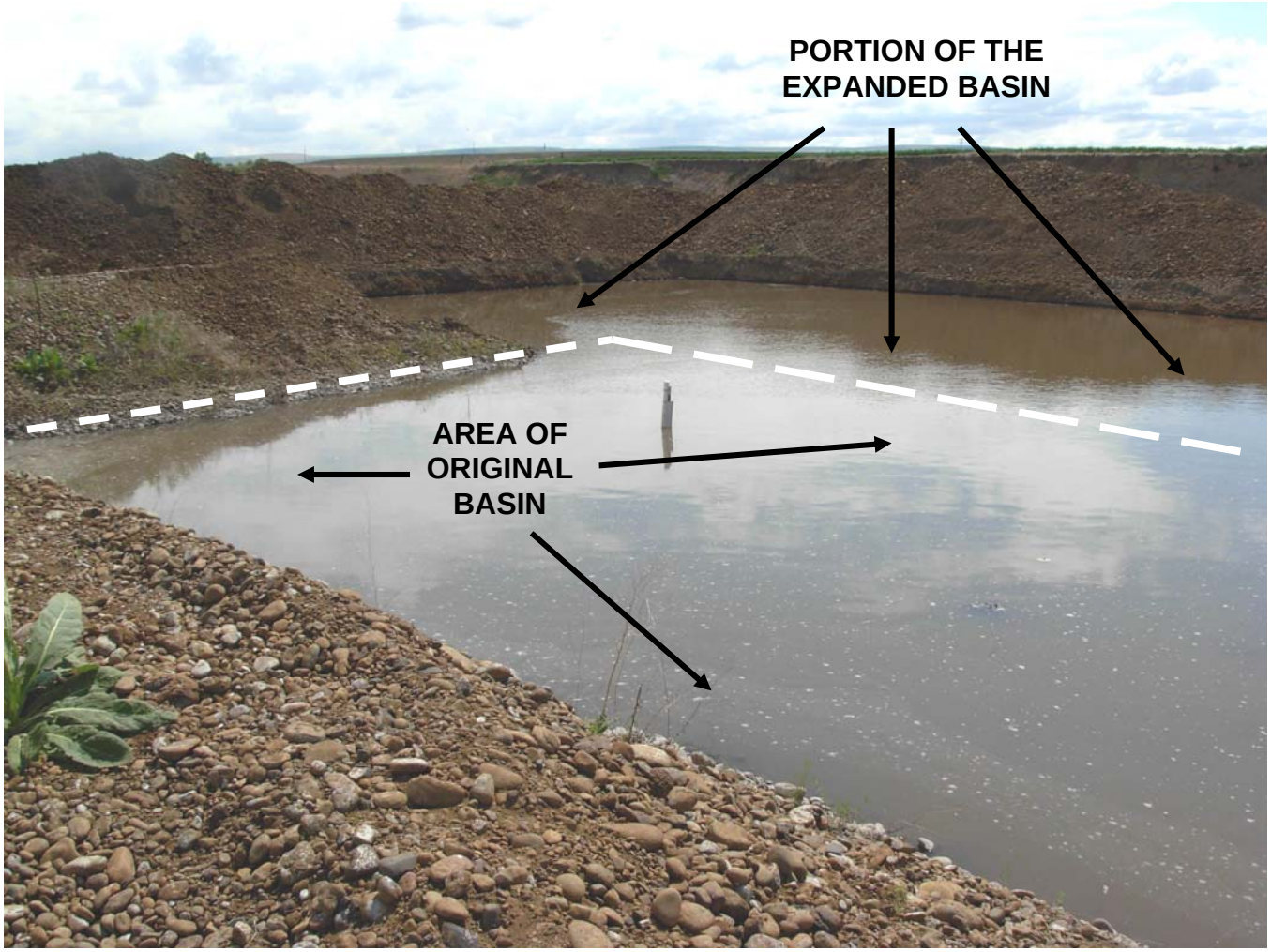

Figure 4. Photograph of the lower basin taken from near where the connecting trench enters it (to the right of the photo). Photograph shows a portion of the expanded basin.

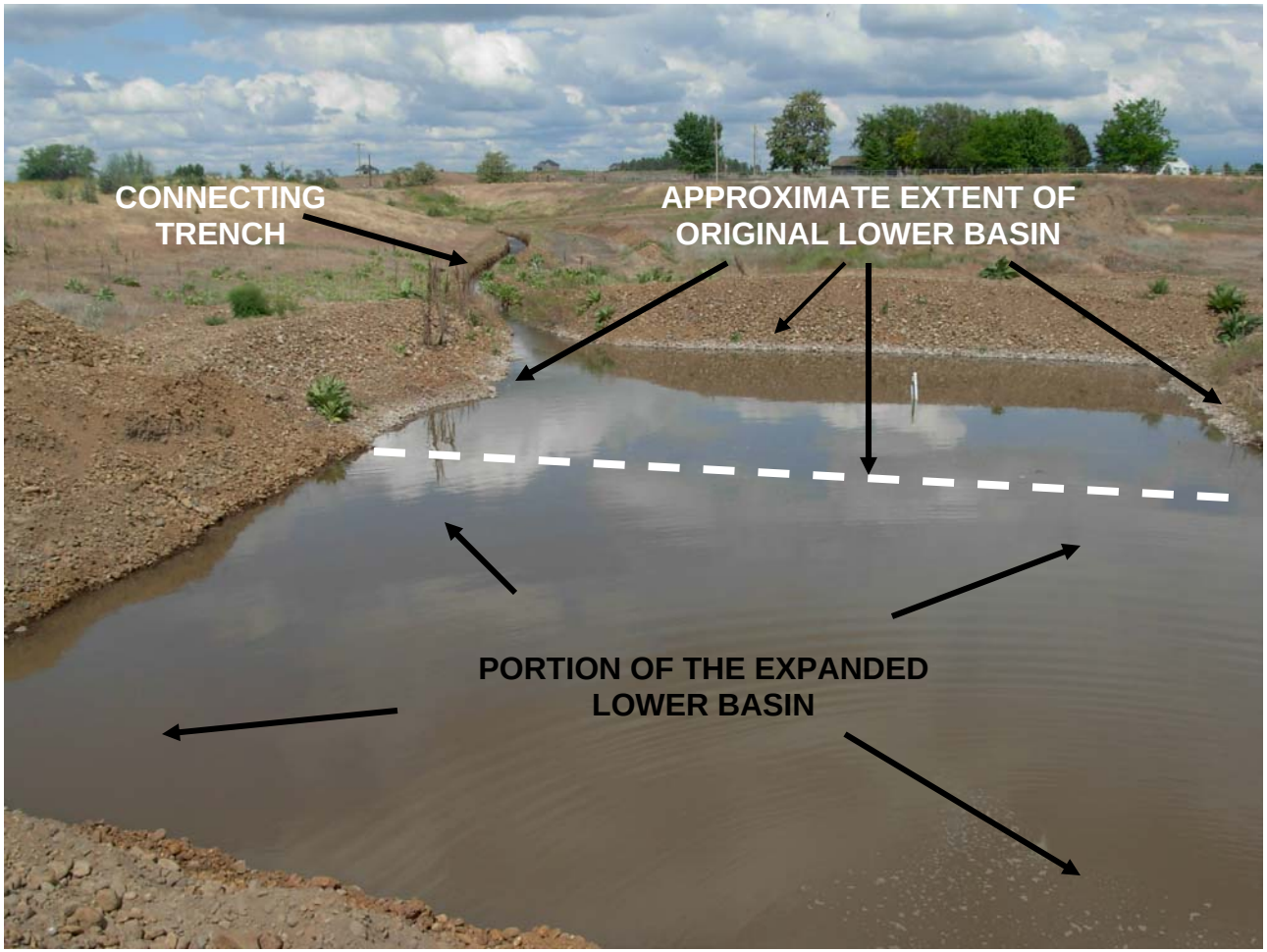

Figure 5. Photograph of the lower basin looking up the deepened connecting trench towards the upper basin. Photograph shows the basic extent of the original lower basin, and much of the expansion.

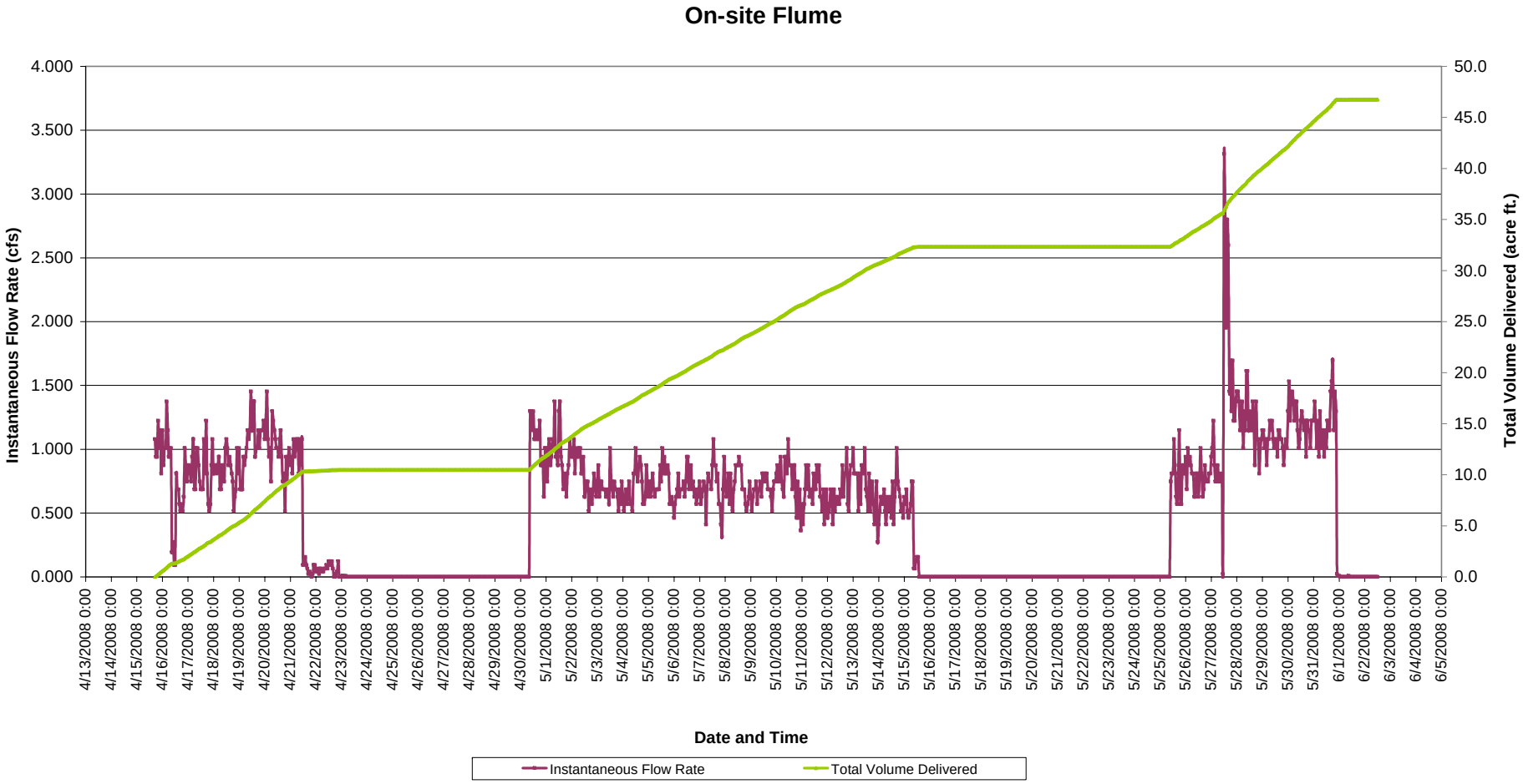

Figure 6. Instantaneous and total flow into the Locher Road Site during the 2008 SAR season.

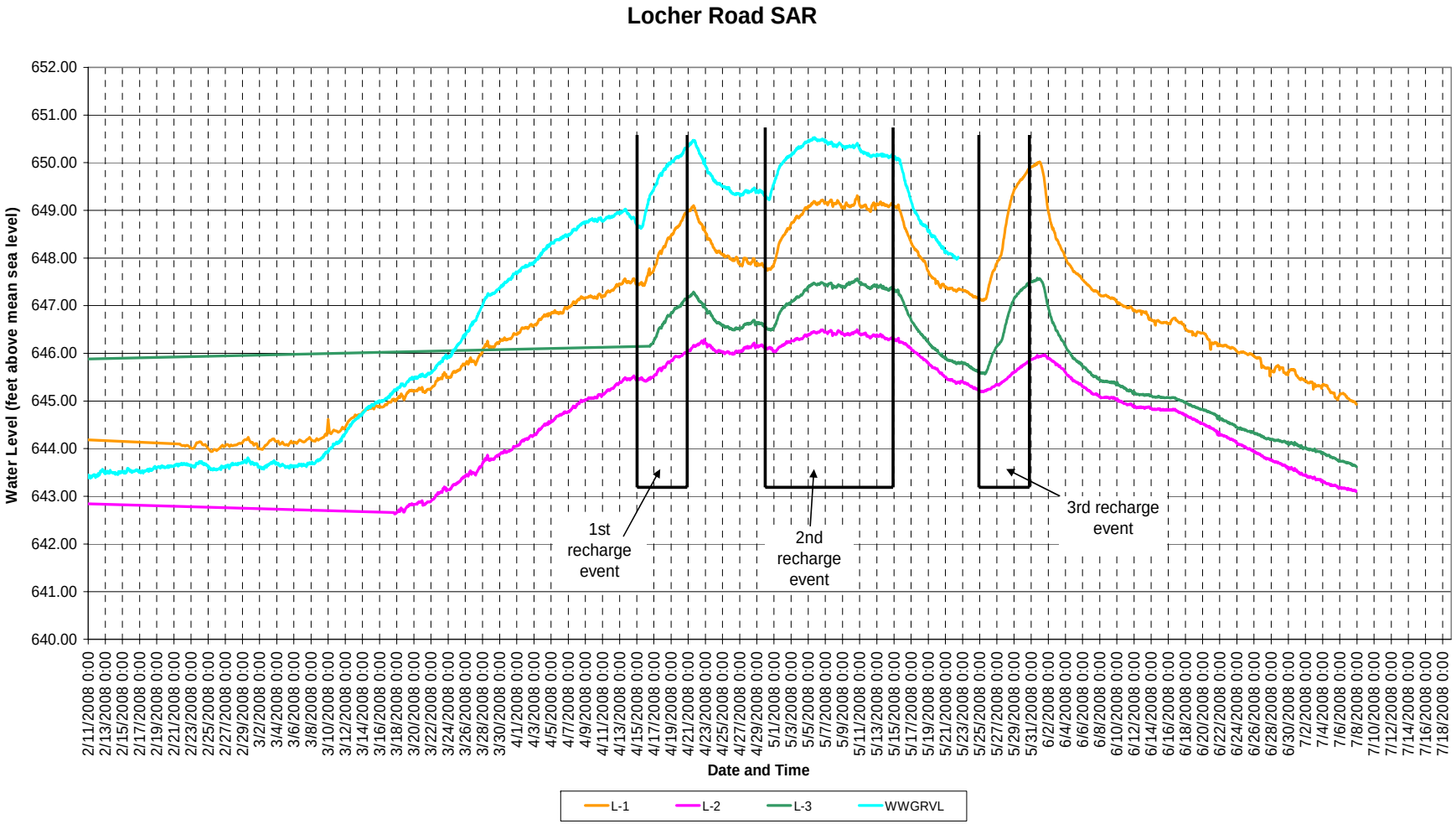

Figure 7. Water levels in Locher Road SAR Site wells before, during, and after the 2008 SAR season.

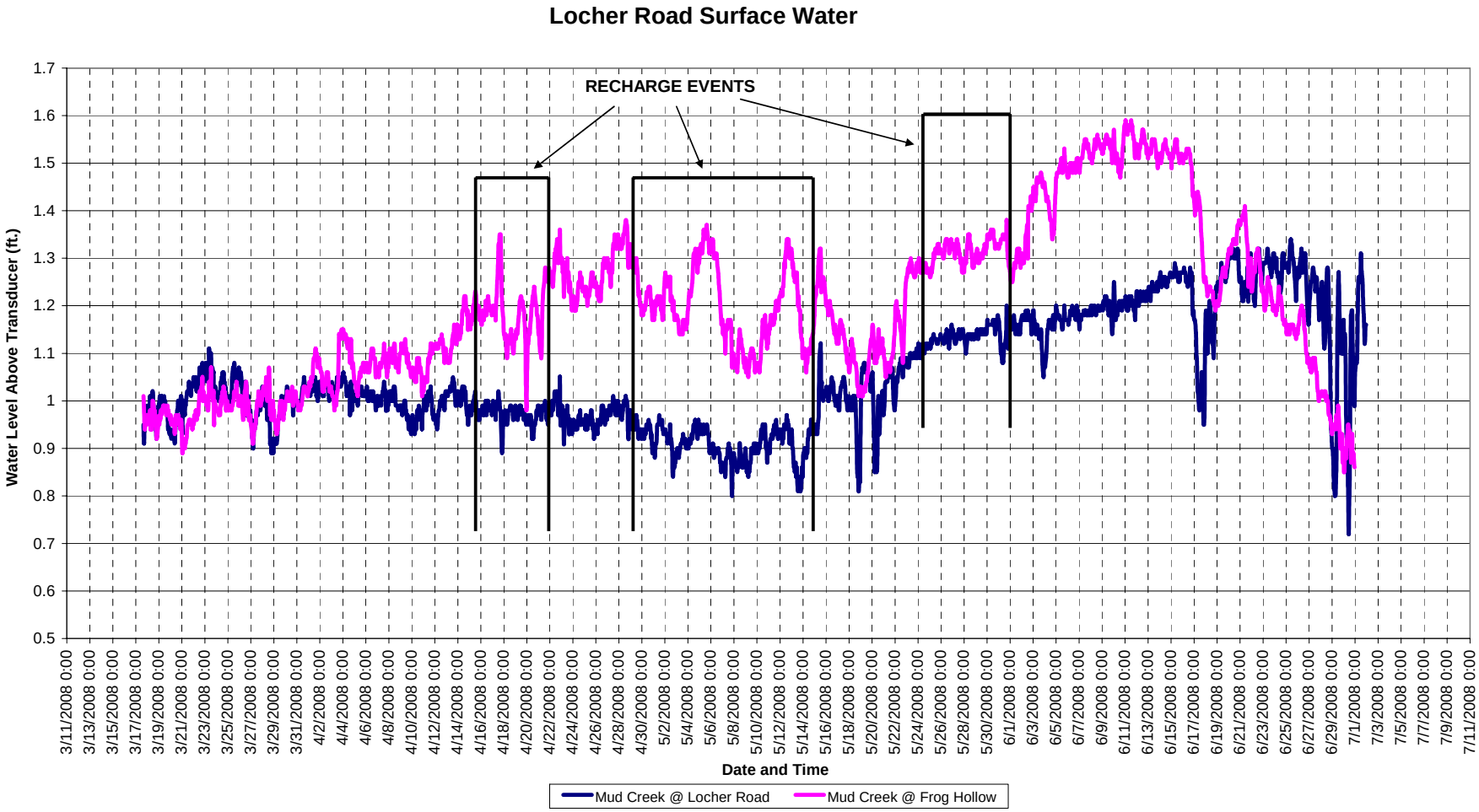

Figure 8. Pressure transducer measurements showing water levels in Mud Creek at the two monitoring locations.

Tables

MDL -->								0.21		0.11	21.1		0.297		0.043		8.0		

Sample ID	Date	Lab No.	pH	Temp. C	Electrical Conductivity (mS/cm)	Turbidity (NTU)		NO_3-N (mg/L)		Hardness (mg/L)	TDS (mg/L)		Cl (mg/L)		Soluble Reactive Phosphorous (mg/L)		COD (mg/L)	Total Coliform (per 100ml)	E-Coli (per 100ml or Absent/Present)
L-1	10/12/2006	85232						6.23		205.00	262.0		7.800		0.100	<	8.0		0
L-1	1/15/2007	86451	6.77	12.8	432	0.15		6.50		202.00	238.0		1.200		0.120	<	8.0	0	
L-1	4/4/2007	87538	7.24	13.8	401	0.89		5.68		217.00	253.0		5.000	<	0.043	<	8.0	0	0
L-1	4/12/2007	87725	7.25	13.5	393	1.92		5.19		213.00	248.0		6.500		0.090	<	8.0	0	0
L-1	4/23/2007	87918	7.17	13.9	428	0.42		4.20		624.00	247.0		7.500		0.130	<	8.0	0	0
L-1	1/23/2008	2123	7.07		388	48.6		5.28		135.00	235.0		5.800		0.360	<	8.0	0	Absent
L-1	2/13/2008	4099	7.13		384	44.4		5.55		154.00	236.0		5.600		0.360	<	8.0	0	Absent
L-1	5/27/2008	15124	7		401	0.79		5.86		156.00	262.0		6.700		0.270	<	8.0		
L-2	10/12/2006	85233						3.27		132.00	184.0		6.400		0.140	<	8.0		0
L-2	1/15/2007	86452	7.05	11.9	281	0.67		3.63		117.00	154.0		0.800		0.130	<	4.0	0	
L-2	4/4/2007	87539	7.19	13.0	284	0.39		4.12		145.00	190.0		5.500	<	0.043	<	8.0	0	0
L-2	4/12/2007	87726	7.17	13.0	284	0.65		3.62		148.00	148.0		0.297		0.080	<	8.0	0	0
L-2	4/23/2007	87919	7.17	13.2	288	0.64		1.34		134.00	180.0		4.500		0.140	<	8.0	0	0
L-2	1/23/2008	2124	7.04		287	8.06		3.47		103.00	181.0		5.600		0.330	<	8.0	0	Present
L-2	2/13/2008	4100	7.07		284	8.65		3.50		111.70	196.0		5.500		0.330	<	8.0	0	Present
L-2	5/27/2008	15126	6.93		313	7.13		5.96		117.00	205.0		6.500		0.270		10.0		
L-3	10/12/2006																		
L-3	1/15/2007	86453	6.88	10.1	202	25.00		2.86		83.40	118.0	<	0.297		0.130	<	8.0	0	
L-3	4/4/2007	87540	7.47	9.6	104	2.51		0.81		54.50	92.5		48.500	<	0.043	<	8.0	0	0
L-3	4/12/2007	87727	7.36	9.4	126	2.57		0.90		61.80	92.5	<	0.297		0.070	<	8.0	P	0
L-3	4/23/2007	87920	7.35	9.8	135	1.97		0.47		54.70	86.7	<	0.297		0.100	<	8.0	0	0
L-3	1/23/2008	2125	7.14		187	13.90		2.86		61.90	124.0		3.200		0.300		18.0	0	Present
L-3	2/13/2008	4101	7.15		197	29.40		4.51		75.30	148.0		5.500		0.320	<	8.8	0	Present
L-3	5/27/2008	15127	6.98		129	7.48		2.11		45.70	98.0		1.800		0.220		16.0		
Mud Ck - L	10/12/2006																		
Mud Ck - L	1/15/2007	86454	6.21	1.8	262	1.39		2.18		112.00	144.0		2.000		0.060	<	8.0	0	
Mud Ck - L	4/4/2007	87542	8.05	11.2	242	3.48		1.30		132.00	158.0		10.000	<	0.043	<	8.0	P	P
Mud Ck - L	4/12/2007	87729	7.70	9.6	173	1.49		0.40		95.00	118.0	<	0.297		0.100		8.0	P	P
Mud Ck - L	4/23/2007	87922	8.01	15.3	181	1.26	<	0.21		83.10	117.0	<	0.297		0.060	<	8.0	P	P
Mud Ck - L	5/27/2008	15129	7.24		162	4.95		0.57		65.00	112.0		2.900		0.180		11.0		
Mud Ck - SL	10/12/2006																		
Mud Ck - SL	1/15/2007	86455	6.13	2.8	268	3.56		2.17		113.00	146.0		0.800		0.050		9.0	0	
Mud Ck - SL	4/4/2007	87541	8.28	12.6	248	1.81		1.39		130.00	165.0		11.000	<	0.043	<	8.0	P	P
Mud Ck - SL	4/12/2007	87728	7.89	10.9	175	1.89		0.52		95.50	123.0		0.700		0.040		9.0	P	P
Mud Ck - SL	4/23/2007	87921	8.16	16.5	180	1.89		0.47		82.40	113.0		5.000		0.080		10.0	P	P
Mud Ck - SL	5/27/2008	15130	7.50		298	4.11		0.87		112.00	188.0		4.600		0.240		21.0		
diversion	4/4/2007	87543	8.02	9.4	95	6.28		0.38		45.20	95.0		40.000	<	0.043	<	8.0	A	A
diversion	4/12/2007	87730	7.77	8.0	90	4.27		0.12		44.10	65.0		2.200		0.080		12.0	P	P
diversion	4/23/2007	87923	8.17	12.7	94.0	6.39		4.21		31.40	73.3		39.000	<	0.043	<	8.0	P	P
diversion	5/27/2008	15128	7.27		50	17.60		0.11		18.70	54.0		0.600		0.120		19.0		

Table 1. Field and Basic Water Quality Results for the 2007 and 2008 Recharge Seasons.

Date	1/15/2007	1/15/2007	1/15/2007	4/4/2007	4/4/2007	4/4/2007
Well ID	L-1	L-2	L-3	Diversion	L-1	L-2
Chemical						
Carbamates in Drinking water						
Carbofuran	ND	ND	ND	ND	ND	ND
Oxymal	ND	ND	ND	ND	ND	ND
3-Hydroxycabofuran	ND	ND	ND	ND	ND	ND
Aldicarb	ND	ND	ND	ND	ND	ND
Aldicarb sulfone	ND	ND	ND	ND	ND	ND
Aldicarb sulfoxide	ND	ND	ND	ND	ND	ND
Carbaryl	ND	ND	ND	ND	ND	ND
Methomyl	ND	ND	ND	ND	ND	ND
Propoxur (Baygon)	ND	ND	ND	ND	ND	ND
Methiocarb	ND	ND	ND	ND	ND	ND
Synthetic Organic Compounds						
Endrin	ND	ND	ND	ND	ND	ND
Lindane (BHC-Gamma)	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND
Alachlor	ND	ND	ND	ND	ND	ND
Atrazine	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND
Chlordane Technical	ND	ND	ND	ND	ND	ND
Di(ethylhexyl)-Adipate	ND	ND	ND	ND	ND	ND
Di(ethylhexyl)-phthalate	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide A&B	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Hexachlorocyclo-Pentadiene	ND	ND	ND	ND	ND	ND
Simazine	ND	ND	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND	ND	ND
Butachlor	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND
Metolachlor	ND	ND	ND	ND	ND	ND
Metribuzin	ND	ND	ND	ND	ND	ND
Propachlor	ND	ND	ND	ND	ND	ND
Bromacil	**0.74**	ND	ND	ND	**0.2**	ND
Prometon	ND	ND	ND	ND	ND	ND
Terbacil	ND	ND	ND	ND	ND	ND
Diazinon	ND	ND	ND	ND	ND	ND
EPTC	ND	ND	ND	ND	ND	ND
4,4-DDD	ND	ND	ND	ND	ND	ND
4,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDT	ND	ND	ND	ND	ND	ND
Cyanazine	ND	ND	ND	ND	ND	ND
Malathion	ND	ND	ND	ND	**0.4**	**0.5**
Trifluralin	ND	ND	ND	ND	ND	ND

Table 2. SOC results for the 2007 and 2008 recharge seasons.

Date	1/15/2007	1/15/2007	1/15/2007	4/4/2007	4/4/2007	4/4/2007
Well ID	L-1	L-2	L-3	Diversion	L-1	L-2
Chemical						
Napthalene	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND
Benz(A)anthracene	ND	ND	ND	ND	ND	ND
Benzo(B)fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(G,H,I)peryene	ND	ND	ND	ND	ND	ND
Benzo(K)fluoranthene	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	ND	ND	ND	ND	ND	ND
Phenanthrene	ND	ND	ND			
Pyrene	ND	ND	ND	ND	ND	ND
Benzyl Butyl Phthalate	ND	ND	ND	ND	ND	ND
Di-N-Butyl Phthalate	**0.95**	ND	ND	ND	**0.7**	**0.7**
Diethyl Phthalate	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND
Aroclor 1016	ND	ND	ND	ND	ND	ND
Herbicides in Drinking Water						
2,4-D	ND	ND	ND			
2,4,5-TP (Silvex)	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND
Dalapon	ND	ND	ND	ND	ND	ND
Dinoseb	ND	ND	ND	ND	ND	ND
Picloram	ND	ND	ND	ND	ND	ND
Dicamba	ND	ND	ND	ND	ND	ND
2,4 DB	ND	ND	ND	ND	ND	ND
2,4,5 T	ND	ND	ND	ND	ND	ND
Bentazon	ND	ND	ND	ND	ND	ND
Dichlorprop	ND	ND	ND	ND	ND	ND
Actiflorfin	ND	ND	ND	ND	ND	ND
Dacthal (DCPA)	ND	ND	ND	**0.21**	ND	ND
3,5-Dichlorobenzoic Acid	ND	ND	ND	ND	ND	ND

Table 2. SOC results for the 2007 and 2008 recharge seasons.

Date	4/4/2007	2/13/2008	2/13/2008	2/13/2008	5/27/2008	5/27/2008
Well ID	L-3	L-1	L-2	L-3	Diversion	L-1
Chemical						
Carbamates in Drinking water						
Carbofuran	ND	ND	ND	ND	ND	ND
Oxymal	ND	ND	ND	ND	ND	ND
3-Hydroxycabofuran	ND	ND	ND	ND	ND	ND
Aldicarb	ND	ND	ND	ND	ND	ND
Aldicarb sulfone	ND	ND	ND	ND	ND	ND
Aldicarb sulfoxide	ND	ND	ND	ND	ND	ND
Carbaryl	ND	ND	ND	ND	ND	ND
Methomyl	ND	ND	ND	ND	ND	ND
Propoxur (Baygon)	ND	ND	ND	ND	ND	ND
Methiocarb	ND	ND	ND	ND	ND	ND
Synthetic Organic Compounds						
Endrin	ND	ND	ND	ND	ND	ND
Lindane (BHC-Gamma)	ND	ND	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND	ND	ND
Alachlor	ND	ND	ND	ND	ND	ND
Atrazine	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND
Chlordane Technical	ND	ND	ND	ND	ND	ND
Di(ethylhexyl)-Adipate	ND	ND	ND	ND	ND	ND
Di(ethylhexyl)-phthalate	ND	ND	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND	ND	ND
Heptachlor Epoxide A&B	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	ND	ND
Hexachlorocyclo-Pentadiene	ND	ND	ND	ND	ND	ND
Simazine	ND	ND	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND	ND	ND
Butachlor	ND	ND	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND	ND	ND
Metolachlor	ND	ND	ND	ND	ND	ND
Metribuzin	ND	ND	ND	ND	ND	ND
Propachlor	ND	ND	ND	ND	ND	ND
Bromacil	ND	**0.32**	ND	ND	ND	ND
Prometon	ND	ND	ND	ND	ND	ND
Terbacil	ND	ND	ND	ND	ND	ND
Diazinon	ND	ND	ND	ND	ND	ND
EPTC	ND	ND	ND	ND	ND	ND
4,4-DDD	ND	ND	ND	ND	ND	ND
4,4-DDE	ND	ND	ND	ND	ND	ND
4,4-DDT	ND	ND	ND	ND	ND	ND
Cyanazine	ND	ND	ND	ND	ND	ND
Malathion	**0.3**	ND	ND	ND	ND	ND
Trifluralin	ND	ND	ND	ND	ND	ND

Table 2. SOC results for the 2007 and 2008 recharge seasons.

Date	4/4/2007	2/13/2008	2/13/2008	2/13/2008	5/27/2008	5/27/2008
Well ID	L-3	L-1	L-2	L-3	Diversion	L-1
Chemical						
Napthalene	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND
Benz(A)anthracene	ND	ND	ND	ND	ND	ND
Benzo(B)fluoranthene	ND	ND	ND	ND	ND	ND
Benzo(G,H,I)peryene	ND	ND	ND	ND	ND	ND
Benzo(K)fluoranthene	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	ND	ND	ND	ND	ND	ND
Phenanthrene		ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND
Benzyl Butyl Phthalate	ND	ND	ND	ND	ND	ND
Di-N-Butyl Phthalate	**0.5**	ND	ND	ND	ND	ND
Diethyl Phthalate	ND	ND	ND	ND	ND	ND
Dimethyl Phthalate	ND	ND	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND	ND	ND
Aroclor 1016	ND	ND	ND	ND	ND	ND
Herbicides in Drinking Water						
2,4-D		ND	ND	ND		
2,4,5-TP (Silvex)	ND	ND	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND	ND	ND
Dalapon	ND	ND	ND	ND	ND	ND
Dinoseb	ND	ND	ND	ND	ND	ND
Picloram	ND	ND	ND	ND	ND	ND
Dicamba	ND	ND	ND	ND	ND	ND
2,4 DB	ND	ND	ND	ND	ND	ND
2,4,5 T	ND	ND	ND	ND	ND	ND
Bentazon	ND	ND	ND	ND	ND	ND
Dichlorprop	ND	ND	ND	ND	ND	ND
Actiflorfin	ND	ND	ND	ND	ND	ND
Dacthal (DCPA)	ND	ND	ND	ND	**0.2**	ND
3,5-Dichlorobenzoic Acid	ND	ND	ND	ND	ND	ND

Table 2. SOC results for the 2007 and 2008 recharge seasons.

Date	5/27/2008	5/27/2008	5/27/2008	5/27/2008
Well ID	L-2	L-3	MC-L	MC-SL
Chemical				
Carbamates in Drinking water				
Carbofuran	ND	ND	ND	ND
Oxymal	ND	ND	ND	ND
3-Hydroxycabofuran	ND	ND	ND	ND
Aldicarb	ND	ND	ND	ND
Aldicarb sulfone	ND	ND	ND	ND
Aldicarb sulfoxide	ND	ND	ND	ND
Carbaryl	ND	ND	ND	ND
Methomyl	ND	ND	ND	ND
Propoxur (Baygon)	ND	ND	ND	ND
Methiocarb	ND	ND	ND	ND
Synthetic Organic Compounds				
Endrin	ND	ND	ND	ND
Lindane (BHC-Gamma)	ND	ND	ND	ND
Methoxychlor	ND	ND	ND	ND
Alachlor	ND	ND	ND	ND
Atrazine	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND
Chlordane Technical	ND	ND	ND	ND
Di(ethylhexyl)-Adipate	ND	ND	ND	ND
Di(ethylhexyl)-phthalate	ND	ND	ND	ND
Heptachlor	ND	ND	ND	ND
Heptachlor Epoxide A&B	ND	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND
Hexachlorocyclo-Pentadiene	ND	ND	ND	ND
Simazine	ND	ND	ND	ND
Aldrin	ND	ND	ND	ND
Butachlor	ND	ND	ND	ND
Dieldrin	ND	ND	ND	ND
Metolachlor	ND	ND	ND	ND
Metribuzin	ND	ND	ND	ND
Propachlor	ND	ND	ND	ND
Bromacil	ND	ND	ND	ND
Prometon	ND	ND	ND	ND
Terbacil	ND	ND	ND	ND
Diazinon	ND	ND	ND	ND
EPTC	ND	ND	ND	ND
4,4-DDD	ND	ND	ND	ND
4,4-DDE	ND	ND	ND	ND
4,4-DDT	ND	ND	ND	ND
Cyanazine	ND	ND	ND	ND
Malathion	ND	ND	ND	ND
Trifluralin	ND	ND	ND	ND

Table 2. SOC results for the 2007 and 2008 recharge seasons.

Date	5/27/2008	5/27/2008	5/27/2008	5/27/2008
Well ID	L-2	L-3	MC-L	MC-SL
Chemical				
Napthalene	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND
Acenaphthene	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND
Benz(A)anthracene	ND	ND	ND	ND
Benzo(B)fluoranthene	ND	ND	ND	ND
Benzo(G,H,I)peryene	ND	ND	ND	ND
Benzo(K)fluoranthene	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND
Dibenzo(A,H)anthracene	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND
Indeno(1,2,3-CD)pyrene	ND	ND	ND	ND
Phenanthrene	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND
Benzyl Butyl Phthalate	ND	ND	ND	ND
Di-N-Butyl Phthalate	ND	ND	ND	ND
Diethyl Phthalate	ND	ND	ND	ND
Dimethyl Phthalate	ND	ND	ND	ND
Toxaphene	ND	ND	ND	ND
Aroclor 1221	ND	ND	ND	ND
Aroclor 1232	ND	ND	ND	ND
Aroclor 1242	ND	ND	ND	ND
Aroclor 1248	ND	ND	ND	ND
Aroclor 1254	ND	ND	ND	ND
Aroclor 1260	ND	ND	ND	ND
Aroclor 1016	ND	ND	ND	ND
Herbicides in Drinking Water				
2,4-D				
2,4,5-TP (Silvex)	ND	ND	ND	ND
Pentachlorophenol	ND	ND	ND	ND
Dalapon	ND	ND	ND	ND
Dinoseb	ND	ND	ND	ND
Picloram	ND	ND	ND	ND
Dicamba	ND	ND	ND	**0.18**
2,4 DB	ND	ND	ND	ND
2,4,5 T	ND	ND	ND	ND
Bentazon	ND	ND	ND	ND
Dichlorprop	ND	ND	ND	ND
Actiflorfin	ND	ND	ND	ND
Dacthal (DCPA)	ND	ND	**0.4**	**0.2**
3,5-Dichlorobenzoic Acid	ND	ND	ND	ND

Table 2. SOC results for the 2007 and 2008 recharge seasons.

Appendices

APPENDIX A
Field Notes

3/17/08

L-1 – SWL – 36.45' TOC 1500
transducer data corrupted
going to attempt to send to
solinst

L-2 – SWL – 23.22'
data corrupt

L-3 – SWL – 27.69'
data corrupt

upper mud Cr. 1.08
lower mud Cr. 1.24

4-1-08

Locher Road 11:30 - 12:30
Walked up + down the upper + lower ditches - cleaned out the ditches of tumbleweeds, grass, thistle - dodging bees.
Cleaned out Concrete flume off of Burlingame ditch, cleaned weeds out of DOE monitoring well.

* make extra set of keys for W² Watershed Council. Theirs were stolen.

4/15/08

start test 10:45
11:00 0.18 on flume

JT on site 16:00
install transducer in flume

flume reads 0.18

4/16/08

shut down @ ~8:10

L-1 DTW: 33.70' 1140

installed transducer in lower basin 1150 cannot install upper basin transducer basin is too full still

restart @ 12:10 0.18

L-2 DTW: 20.37 1225

L-3 DTW: 24.82 1233

upper mud creek @ Locher 1.16

lower mud creek @ Frog Hollow 1.98

transducer in L-3 appears to be malfunctioning, replaced with spare

4/29/08

installed transducer in upper basin 15:00 to start readings @ 16:00

recharge has been shut down due to low river level and today river is too high >1000 cfs at Best Rd

5/15/08

L1 DTW -32.19 1405

L2 DTW - 19.50 14:13

L3 DTW - 23.69 14:28

Mad C. @ Locher 1.29 1439

Mad C. @ FH 1.59 1445

Recharge @ site B stopped

5/27/08

KAL onsite @ Locher @ 1430

~~Staff in lower basin ~ 2.9 ft @ 1431~~ error

Upper basin staff only has 6" or so sticking above water @ 1436

Staff gauge @ diversion flume @ 0.46 ft @ 1439

fluctuates between 0.44 & 0.48, pick 0.46 as good basic #.

Lower Basin staff @ ~2.3 @ 1445

@ MSO still about a foot or so below old high water mark.

Spoils piles, lots of undisturbed channels dug up.

Old test pit 10-12 ft to water

5/27/08 pg 2

Lowa Basin Staff Gauge.
~2.4 ft @ 1454
come up ~ 0.1 ft in 10 minutes

Staff @ 2.5 ft @ 1503, Stuart turning gate down to ~ 2 cfs @ 1505

Lowa basin currently about 2X size & was in spring 2007.

~ 2.6 ft @ 1508

~ 2.7 ft @ 1518 & so still coming up, not slowing really yet.

1525 KAH ~1/2 gate

1632 KAH back
@ 1618 3.00
@ 1637 Staff @ 3.14 ft

5/27/08 pg 3

Stuart spurg to turn gate down to ~1.5 cfs

~3.2 @ 1617

Gate @ 1.5 cfs @ ~ 1650

Time	readng	ΔT	Δft	rate/hr
1445	2.3	–	–	–
1454	2.4	9	0.1	0.67 ft/hr
1503	2.5	9	0.1	"
1508	2.6	5	0.1	1.2 ft/hr
1518	2.7	10	0.1	0.60 ft/hr
1618	3.0	60	0.3	0.3 ft/hr
1637	3.14	19	0.14	0.44 ft/hr
1718	3.25	41	0.11	

9/19/00

L-1 DTW -44.17 12:15

L-2 DTW -29.75 12:20

installed barologger from HW site

L-3 DTW -35.14 12:35

MC @ Locher not flowing

MC @ Frog Hollow no water

6/2/08

JT onsite 11:50

L-1 DTW: 32.62' TOC 12:05

Low Basin: no water, damp in low spots

Upper basin: 1"-2" standing water in low spots 1"-2" fine sediment (muck) covering bottom

Flume: water level in flume is 4 9/16" above base.

L-2 DTW: 19.90' TOC 12:35

L-3 DTW: 24.24 TOC 12:45

Mud C @ Locher: 1.41

Mud C @ Frog Hollow: 1.72

APPENDIX B
Water Quality Analyses

1/23/08

Mill Creek
Water Treatment Plant
Laboratory
581 Mill Creek Road Walla Walla, WA 99362

Lab ID # : 143
Washington State ID : M1873
EPA ID # : WA 01177
Telephone : (509) 522-3775
Fax : (509) 529-9681
Date: 01/25/08

System ID / Name:	Walla Walla Basin Watershed Council	Amount Due:	$132.00
Sampler:	Bob Bower	Invoice Number:	8001
Address:	P.O. Box 68	Date Collected:	1/23/08
City:	Milton-Freewater	Date Analyzed:	1/23/08
State:	Oregon Zip Code: 97869	Lab Analyst:	Skifstad

Test Methods Are Selected From The
Standard Methods For Examination Of Water and Wastewater ~ 20th Edition~

Test Method 9223B			
Sample ID #1	Results	Units	Lab Number
L-1	Absence	Presence / Absence	143-05160
Sample ID #2	Results	Units	Lab Number
L-2	Presence	Presence / Absence	143-05161
	Total Coliform Present / Fecal Coliform Absent X Present		
Sample ID #3	Results	Units	Lab Number
L-3	Presence	Presence / Absence	143-05162
	Total Coliform Present / Fecal Coliform Absent X Present		
Sample ID #4	Results	Units	Lab Number
[redacted]	[redacted]	[redacted]	143-05163
	Total Coliform Present / Fecal Coliform Absent X Present		
Sample ID #5	Results	Units	Lab Number
[redacted]	[redacted]	Presence / Absence	143-05164
Sample ID #6	Results	Units	Lab Number
[redacted]	[redacted]	Presence / Absence	143-05165
	Total Coliform Present / Fecal Coliform Absent X Present		

The City of Walla Walla's Mill Creek Water Treatment Laboratory will maintain records pertaining to reconstructing client's data for a minimum of five years from the date of issuance of the final report. Records may be destroyed after that .

Signature Lab Director : Tom Kiefer 1-25-08 (date)

City Of Walla Walla
Water Plant Laboratory
581 Mill Creek Road
Walla Walla, WA 99362

Mill Creek Water Treatment Plant Laboratory
581 Mill Creek Road Walla Walla, WA 99362

Lab ID # : 143
Washington State ID : M1873
EPA ID # : WA 01177
Telephone : (509) 522-3775
Fax : (509) 529-9681
Date: 01/25/08

System ID / Name: Walla Walla Basin Watershed Council
Amount Due: $150.00

Sampler: Bob Bower
Invoice Number: 8001

Address: P.O. Box 68
Date Collected: 1/23/08

City: Milton-Freewater
Date Analyzed: 1/23/08

State: Oregon Zip Code: 97863
Lab Analyst: Skilstad

Test Methods Are Selected From The
Standard Methods For Examination Of Water and Wastewater ~ 20th Edition~

Test Method 9222D			
Sample ID #1	**Results**	**Units**	**Lab Number**
L-1	0.0	CFU's / 100 mL	143-05154
Sample ID #2	**Results**	**Units**	**Lab Number**
L-2	0.0	CFU's / 100 mL	143-05155
Sample ID #3	**Results**	**Units**	**Lab Number**
L-3	0.0	CFU's / 100 mL	143-05156
Sample ID #4	**Results**	**Units**	**Lab Number**
[redacted]	[redacted]	CFU's / 100 mL	143-05157
Sample ID #5	**Results**	**Units**	**Lab Number**
[redacted]	[redacted]	CFU's / 100 mL	143-05158
Sample ID #6	**Results**	**Units**	**Lab Number**
[redacted]	[redacted]	CFU's / 100 mL	143-05159

The City of Walla Walla's Mill Creek Water Treatment Laboratory will maintain records pertaining to reconstructing client's data for a minimum of five years from the date of issuance of the final report. Records may be destroyed after that .

Signature Lab Director : Tom Krebs 1-25-08
(date)

City Of Walla Walla
Water Plant Laboratory
581 Mill Creek Road
Walla Walla, WA 99362

Mill Creek
Water Treatment Plant
Laboratory
581 Mill Creek Road Walla Walla, WA 99362

Lab ID # : 143
Washington State ID : M1873
EPA ID # : WA 01177
Telephone : (509) 522-3775
Fax : (509) 529-9681
Date: 01/25/08

System ID / Name: Walla Walla Basin Watershed Council
Amount Due: $132.00

Sampler: Bob Bower
Invoice Number: 8001

Address: P.O. Box 68
Date Collected: 1/23/08

City: Milton-Freewater
Date Analyzed: 1/23/08

State: Oregon Zip Code: 97869
Lab Analyst: Skifstad

Test Methods Are Selected From The
Standard Methods For Examination Of Water and Wastewater ~ 20th Edition~

Test Method 9223B			
Sample ID #1	Results	Units	Lab Number
L-1	Absence	Presence / Absence	143-05160
Sample ID #2	Results	Units	Lab Number
L-2	Presence	Presence / Absence	143-05161
	Total Coliform Present / Fecal Coliform Absent__X__Present__		
Sample ID #3	Results	Units	Lab Number
L-3	Presence	Presence / Absence	143-05162
	Total Coliform Present / Fecal Coliform Absent__X__Present__		
Sample ID #4	Results	Units	Lab Number
[illegible]	[illegible]	Presence / Absence	143-05163
	Total Coliform Present / Fecal Coliform Absent__X__Present__		
Sample ID #5	Results	Units	Lab Number
[illegible]	[illegible]	Presence / Absence	143-05164
Sample ID #6	Results	Units	Lab Number
[illegible]	[illegible]	Presence / Absence	143-05165
	Total Coliform Present / Fecal Coliform Absent__X__Present__		

The City of Walla Walla's Mill Creek Water Treatment Laboratory will maintain records pertaining to reconstructing client's data for a minimum of five years from the date of issuance of the final report. Records may be destroyed after that .

Signature Lab Director : Tom Kiefer 1-25-08
(date)

City Of Walla Walla
Water Plant Laboratory
581 Mill Creek Road
Walla Walla, WA 99362

Mill Creek Water Treatment Plant Laboratory
581 Mill Creek Road Walla Walla, WA 99362

Lab ID # : 143
Washington State ID : M1873
EPA ID # : WA 01177
Telephone : (509) 522-3775
Fax : (509) 529-9681
Date: 01/25/08

System ID / Name: Walla Walla Basin Watershed Council
Amount Due: $150.00

Sampler: Bob Bower
Invoice Number: 8001

Address: P.O. Box 68
Date Collected: 1/23/08

City: Milton-Freewater
Date Analyzed: 1/23/08

State: Oregon Zip Code: 97863
Lab Analyst: Skifstad

Test Methods Are Selected From The
Standard Methods For Examination Of Water and Wastewater ~ 20th Edition~

Test Method 9222D			
Sample ID #1	Results	Units	Lab Number
L-1	0.0	CFU's / 100 mL	143-05154
Sample ID #2	Results	Units	Lab Number
L-2	0.0	CFU's / 100 mL	143-05155
Sample ID #3	Results	Units	Lab Number
L-3	0.0	CFU's / 100 mL	143-05156
Sample ID #4	Results	Units	Lab Number
~~HW-1~~	~~0.0~~	CFU's / 100 mL	143-05157
Sample ID #5	Results	Units	Lab Number
~~HW-2~~	~~0.0~~	CFU's / 100 mL	143-05158
Sample ID #6	Results	Units	Lab Number
~~HW-3~~	~~0.0~~	CFU's / 100 mL	143-05159

The City of Walla Walla's Mill Creek Water Treatment Laboratory will maintain records pertaining to reconstructing client's data for a minimum of five years from the date of issuance of the final report. Records may be destroyed after that.

Signature Lab Director : Toni Krebs 1-25-08
(date)

City Of Walla Walla
Water Plant Laboratory
581 Mill Creek Road
Walla Walla, WA 99362

CITY OF WALLA WALLA

MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
1 / 23 / 08	10 : 25 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☒ Other ASR

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ ___ ___ ___ ___ ___
System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER
Specific location where sample collected (address or sample site, and type of faucet): L-1
Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample** Provide information below. Chlorinated: Yes____ No____ Chlorine Residual: Total____ Free____
2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)** Provide information below. Unsatisfactory routine lab number: ___ ___ ___ ___ ___ ___ ___ ___ Unsatisfactory routine collect date: ___/___/___ Chlorinated: Yes____ No____ Chlorine Residual: Total____ Free____
3. ☐ **Raw Water Source Sample** Required for Surface Water, GWI, and some Spring Sources) ☐ Total Coliform ☐ Fecal Coliform $ ___ ___ Public Systems must provide Source Number from (WFI)
4. ☒ **Sample Collected for Information Only** Construction____ Repairs____ Private Residence____ Other PA

☒ **Satisfactory** Total Coliform Absent: ABSENT	☐ **Unsatisfactory** Total Coliform Present and ☐ E.coli present ☐ E.coli absent ☐ Fecal coliform present ☐ Fecal coliform absent

☐ **Replacement Sample Required**

Sample not tested because: ☐ Sample too old (>30 hours) ☐ Improper container ☐ ___
Test unsuitable because: ☐ TNTC ☐ Turbid culture ☐ ___

Bacterial Density Results: Plate Count____/ml. E.coli____/100ml.
Total Coliform____/100ml. Fecal Coliform____/100ml.

MICR Method Code: ☐ 1140 ☐ 1340 ☒ 2720	Date and Time Received: 1/23/08 @ 1:32 PM
Date Analyzed: 1/23/08 (CS)	Date Reported: 1/24/08
Lab/Sample Number: 143- 05154	Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

CITY OF WALLA WALLA

MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
1 / 23 / 08	10 : 55 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☒ Other ASR

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ ___ ___ ___ ___ ___
System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER
Specific location where sample collected (address or sample site, and type of faucet): L-2
Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample** Provide information below. Chlorinated: Yes____ No____ Chlorine Residual: Total____ Free____
2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)** Provide information below. Unsatisfactory routine lab number: ___ ___ ___ ___ ___ ___ ___ ___ Unsatisfactory routine collect date: ___/___/___ Chlorinated: Yes____ No____ Chlorine Residual: Total____ Free____
3. ☐ **Raw Water Source Sample** Required for Surface Water, GWI, and some Spring Sources) ☐ Total Coliform ☐ Fecal Coliform $ ___ ___ Public Systems must provide Source Number from (WFI)
4. ☒ **Sample Collected for Information Only** Construction____ Repairs____ Private Residence____ Other PA

☐ **Satisfactory** Total Coliform Absent	☒ **Unsatisfactory** Total Coliform Present and ☐ E.coli present ☐ E.coli absent ☐ Fecal coliform present ☒ Fecal coliform absent

☐ **Replacement Sample Required**

Sample not tested because: ☐ Sample too old (>30 hours) ☐ Improper container ☐ ___
Test unsuitable because: ☐ TNTC ☐ Turbid culture ☐ ___

Bacterial Density Results: Plate Count____/ml. E.coli____/100ml.
Total Coliform____/100ml. Fecal Coliform____/100ml.

MICR Method Code: ☐ 1140 ☐ 1340 ☒ 2720	Date and Time Received: 1/23/08 @ 1:32 PM
Date Analyzed: 1/23/08 (CS)	Date Reported: 1/24/08
Lab/Sample Number: 143- 05155	Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

CITY OF WALLA WALLA

MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
1/23/08	9:00 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☒ Other ASR

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER
Specific location where sample collected (address or sample site, and type of faucet): [redacted]
Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample** Provide information below. Chlorinated: Yes___ No___ Chlorine Residual: Total___ Free___
2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)** Provide information below. Unsatisfactory routine lab number: ___ Unsatisfactory routine collect date: ___/___/___ Chlorinated: Yes___ No___ Chlorine Residual: Total___ Free___
3. ☐ **Raw Water Source Sample** Required for Surface Water, GWI, and some Spring Sources) ☐ Total Coliform ☐ Fecal Coliform. Public Systems must provide Source Number from (WFI)
4. ☒ **Sample Collected for Information Only** Construction___ Repairs___ Private Residence___ Other PA

☐ **Satisfactory** Total Coliform Absent	☒ **Unsatisfactory** Total Coliform Present **and** ☐ E.coli present ☐ E.coli absent ☐ Fecal coliform present ☒ Fecal coliform absent

☐ **Replacement Sample Required**

Sample not tested because: ☐ Sample too old (>30 hours) ☐ Improper container ☐ ___
Test unsuitable because: ☐ TNTC ☐ Turbid culture ☐ ___

Bacterial Density Results: Plate Count ___/ml. E.coli ___/100ml.
Total Coliform ___/100ml. Fecal Coliform ___/100ml.

MICR Method Code: ☐ 1140 ☐ 1340 ☒ 2720	Date and Time Received: 1/23/08 @ 1:30 PM
Date Analyzed: 1/23/08 (CS)	Date Reported: 1/24/08
Lab/Sample Number: 143-05157	Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

CITY OF WALLA WALLA

MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
1/23/08	11:10 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☒ Other ASR

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER
Specific location where sample collected (address or sample site, and type of faucet): 1-3
Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample** Provide information below. Chlorinated: Yes___ No___ Chlorine Residual: Total___ Free___
2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)** Provide information below. Unsatisfactory routine lab number: ___ Unsatisfactory routine collect date: ___/___/___ Chlorinated: Yes___ No___ Chlorine Residual: Total___ Free___
3. ☐ **Raw Water Source Sample** Required for Surface Water, GWI, and some Spring Sources) ☐ Total Coliform ☐ Fecal Coliform. Public Systems must provide Source Number from (WFI)
4. ☒ **Sample Collected for Information Only** Construction___ Repairs___ Private Residence___ Other PA

☐ **Satisfactory** Total Coliform Absent	☒ **Unsatisfactory** Total Coliform Present **and** ☐ E.coli present ☐ E.coli absent ☐ Fecal coliform present ☒ Fecal coliform absent

☐ **Replacement Sample Required**

Sample not tested because: ☐ Sample too old (>30 hours) ☐ Improper container ☐ ___
Test unsuitable because: ☐ TNTC ☐ Turbid culture ☐ ___

Bacterial Density Results: Plate Count ___/ml. E.coli ___/100ml.
Total Coliform ___/100ml. Fecal Coliform ___/100ml.

MICR Method Code: ☐ 1140 ☐ 1340 ☒ 2720	Date and Time Received: 1/23/08 @ 1:30 PM
Date Analyzed: 1/23/08 (CS)	Date Reported: 1/24/08
Lab/Sample Number: 143-05156	Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESU

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
1 / 23 / 08	10:55 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☒ Other ASR

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ ___ ___ ___ ___ ___
System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
310 S. MAIN, P.O. BOX 68
MILTON-FREEWATER, OR. 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER

Specific location where sample collected (address or sample site, and type of faucet): 1 - 2

Special Instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample**
Provide information below.
Chlorinated: Yes_____ No_____
Chlorine Residual: Total_____ Free_____

2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)**
Provide information below.
Unsatisfactory routine lab number:
___ ___ ___ ___ ___ ___ ___ ___ ___ ___
Unsatisfactory routine collect date:
_____/_____/_____
Chlorinated: Yes_____ No_____
Chlorine Residual: Total_____ Free_____

3. ☐ **Raw Water Source Sample**
Required for Surface Water, GWI, and some Spring Sources) ☐ Total Coliform
S | | | ☐ Fecal Coliform
Public Systems must provide Source Number from (WFI)

4. ☒ **Sample Collected for Information Only**
Construction_____ Repairs_____ Private Residence_____ Other ME

☐ **Satisfactory** Total Coliform Absent	☐ **Unsatisfactory** Total Coliform Present **and** ☐ E.coli present ☐ E.coli absent ☐ Fecal coliform present ☐ Fecal coliform absent

☐ **Replacement Sample Required**

Sample not tested because: ☐ Sample too old (>30 hours) ☐ Improper container ☐ ___
Test unsuitable because: ☐ TNTC ☐ Turbid culture ☐ ___

Bacterial Density Results: Plate Count_____/ml. E.coli_____/100ml.
Total Coliform_____/100ml. Fecal Coliform 0 0 /100ml.

Method Code: ☒ 1140 ☐ 1340 ☐ 2720	Date and Time Received: 1/23/08 @ 1 30 PM
Date Analyzed: 1/23/08 (CS)	Date Reported: 1/24/08
Lab/Sample Number: 143- 05161	Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
1 / 23 / 08	10:25 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☒ Other ASR

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ ___ ___ ___ ___ ___
System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
310 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR. 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER

Specific location where sample collected (address or sample site, and type of faucet): 1 - 1

Special Instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample**
Provide information below.
Chlorinated: Yes_____ No_____
Chlorine Residual: Total_____ Free_____

2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)**
Provide information below.
Unsatisfactory routine lab number:
___ ___ ___ ___ ___ ___ ___ ___ ___ ___
Unsatisfactory routine collect date:
_____/_____/_____
Chlorinated: Yes_____ No_____
Chlorine Residual: Total_____ Free_____

3. ☐ **Raw Water Source Sample**
Required for Surface Water, GWI, and some Spring Sources) ☐ Total Coliform
S | | | ☐ Fecal Coliform
Public Systems must provide Source Number from (WFI)

4. ☒ **Sample Collected for Information Only**
Construction_____ Repairs_____ Private Residence_____ Other ME

☐ **Satisfactory** Total Coliform Absent	☐ **Unsatisfactory** Total Coliform Present **and** ☐ E.coli present ☐ E.coli absent ☐ Fecal coliform present ☐ Fecal coliform absent

☐ **Replacement Sample Required**

Sample not tested because: ☐ Sample too old (>30 hours) ☐ Improper container ☐ ___
Test unsuitable because: ☐ TNTC ☐ Turbid culture ☐ ___

Bacterial Density Results: Plate Count_____/ml. E.coli_____/100ml.
Total Coliform_____/100ml. Fecal Coliform 0 0 /100ml.

MICR Method Code: ☒ 1140 ☐ 1340 ☐ 2720	Date and Time Received: 1/23/08 @ 1 30 PM
Date Analyzed: 1/23/08 (CS)	Date Reported: 1/24/08
Lab/Sample Number: 143- 05160	Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road · Walla Walla, WA 99362
Phone 509/522-3775 · Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
1 / 23 / 08	9:00 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☒ Other ASR

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ ___ ___ ___ ___ ___
System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name):
BOB BOWER

Specific location where sample collected (address or sample site, and type of faucet):
[redacted]

Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample**
Provide information below.
Chlorinated: Yes_____ No_____
Chlorine Residual: Total_____ Free_____

2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)**
Provide information below.
Unsatisfactory routine lab number:
___ ___ ___ ___ ___ ___ ___ ___
Unsatisfactory routine collect date:
_____/_____/_____
Chlorinated: Yes_____ No_____
Chlorine Residual: Total_____ Free_____

3. ☐ **Raw Water Source Sample**
Required for Surface Water, GWI, and some Spring Sources)
S | | | | ☐ Total Coliform ☐ Fecal Coliform
Public Systems must provide Source Number from (WFI)

4. ☒ **Sample Collected for Information Only**
Construction_____ Repairs_____ Private Residence_____ Other ME

☐ **Satisfactory**
Total Coliform Absent

☐ **Unsatisfactory**
Total Coliform Present **and**
☐ E.coli present ☐ E.coli absent
☐ Fecal coliform present ☐ Fecal coliform absent

☐ **Replacement Sample Required**

Sample not tested because:
☐ Sample too old (>30 hours)
☐ Improper container
☐ _____

Test unsuitable because:
☐ TNTC
☐ Turbid culture
☐ _____

Bacterial Density Results: Plate Count_____/ml. E.coli_____/100ml.
Total Coliform_____/100ml. Fecal Coliform 0.0 /100ml.

MICR Method Code: ☒ 1140 ☐ 1340 ☐ 2720
Date and Time Received: 1/23/08 @ 1:30 PM
Date Analyzed: 1/23/08 (CS)
Date Reported: 1/24/08
Lab/Sample Number: 143- 05163
Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road · Walla Walla, WA 99362
Phone 509/522-3775 · Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
1 / 23 / 08	11:10 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☒ Other ASR

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ ___ ___ ___ ___ ___
System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name):
BOB BOWER

Specific location where sample collected (address or sample site, and type of faucet):
L-3

Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample**
Provide information below.
Chlorinated: Yes_____ No_____
Chlorine Residual: Total_____ Free_____

2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)**
Provide information below.
Unsatisfactory routine lab number:
___ ___ ___ ___ ___ ___ ___ ___
Unsatisfactory routine collect date:
_____/_____/_____
Chlorinated: Yes_____ No_____
Chlorine Residual: Total_____ Free_____

3. ☐ **Raw Water Source Sample**
Required for Surface Water, GWI, and some Spring Sources)
S | | | | ☐ Total Coliform ☐ Fecal Coliform
Public Systems must provide Source Number from (WFI)

4. ☒ **Sample Collected for Information Only**
Construction_____ Repairs_____ Private Residence_____ Other ME

☐ **Satisfactory**
Total Coliform Absent

☐ **Unsatisfactory**
Total Coliform Present **and**
☐ E.coli present ☐ E.coli absent
☐ Fecal coliform present ☐ Fecal coliform absent

☐ **Replacement Sample Required**

Sample not tested because:
☐ Sample too old (>30 hours)
☐ Improper container
☐ _____

Test unsuitable because:
☐ TNTC
☐ Turbid culture
☐ _____

Bacterial Density Results: Plate Count_____/ml. E.coli_____/100ml.
Total Coliform_____/100ml. Fecal Coliform 0.0 /100ml.

MICR Method Code: ☒ 1140 ☐ 1340 ☐ 2720
Date and Time Received: 1/23/08 @ 1:30 PM
Date Analyzed: 1/23/08 (CS)
Date Reported: 1/24/08
Lab/Sample Number: 143- 05162
Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

ANALYTICAL LABORATORIES

Burlington WA (Corporate Office) | 1620 S Walnut St - 98233
800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 98225
360.671.0688 • 360.671.1577fax

Data Report

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

Report Date: 2/4/2008
Reference Number: 08-00978
Project: Locher Recharge Site

Collected By: Bob Bower

Date Received: 1/24/2008
Peer Review:

Lab Number: 2123 Sample Description: L-1 - L-1 obs well Sample Date: 1/23/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	5.28	0.02	0.0009	mg/L	2.0	SM4500-NO3 F	1/25/2008	SO	NO3NO2-080125	
E-10173	TOTAL DISSOLVED SOLIDS	235	10	10	mg/L	1.0	SM2540 C	1/28/2008	CCN	TDS_080128	
16887-00-6	CHLORIDE	5.8	1.0	0.143	mg/L	10.0	300.0	1/24/2008	BJ	I080124A	
14265-44-2	ORTHO-PHOSPHATE	0.36	0.01	0.005	mg/L	1.0	SM4500-P F	1/24/2008	SO	OPHOS-080124A	
E-10139	HYDROGEN ION (pH)	7.07			pH Units	1.0	SM4500-H+ B	1/24/2008	MAK	PH_080124	
E-10617	TURBIDITY	48.6	0.10	0.02	NTU	2.0	180.1	1/24/2008	MAK	TURB_080124	
E-10184	ELECTRICAL CONDUCTIVITY	388	10	10	uS/cm	1.0	SM2510 B	1/25/2008	CCN	EC_080125	
E-11778	HARDNESS	135	3.30	0.055	mg CaCl	1.0	200.7	1/29/2008	BJ	200.7-080129A	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0		mg/L	1.0	SM5220 D	2/1/2008	MAK	COD_080201	

Lab Number: 2124 Sample Description: L-2 - L-2 obs well Sample Date: 1/23/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	3.47	0.02	0.0009	mg/L	2.0	SM4500-NO3 F	1/25/2008	SO	NO3NO2-080125	
E-10173	TOTAL DISSOLVED SOLIDS	181	10	10	mg/L	1.0	SM2540 C	1/28/2008	CCN	TDS_080128	
16887-00-6	CHLORIDE	5.6	1.0	0.143	mg/L	10.0	300.0	1/24/2008	BJ	I080124A	
14265-44-2	ORTHO-PHOSPHATE	0.33	0.01	0.005	mg/L	1.0	SM4500-P F	1/24/2008	SO	OPHOS-080124A	
E-10139	HYDROGEN ION (pH)	7.04			pH Units	1.0	SM4500-H+ B	1/24/2008	MAK	PH_080124	
E-10617	TURBIDITY	8.06	0.05	0.02	NTU	1.0	180.1	1/24/2008	MAK	TURB_080124	
E-10184	ELECTRICAL CONDUCTIVITY	287	10	10	uS/cm	1.0	SM2510 B	1/25/2008	CCN	EC_080125	
E-11778	HARDNESS	103	3.30	0.055	mg CaCl	1.0	200.7	1/29/2008	BJ	200.7-080129A	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0		mg/L	1.0	SM5220 D	2/1/2008	MAK	COD_080201	

Lab Number: 2125 Sample Description: L-3 - L-3 obs well Sample Date: 1/23/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	2.86	0.01	0.0009	mg/L	1.0	SM4500-NO3 F	1/25/2008	SO	NO3NO2-080125	
E-10173	TOTAL DISSOLVED SOLIDS	124	10	10	mg/L	1.0	SM2540 C	1/28/2008	CCN	TDS_080128	
16887-00-6	CHLORIDE	3.2	1.0	0.143	mg/L	10.0	300.0	1/24/2008	BJ	I080124A	
14265-44-2	ORTHO-PHOSPHATE	0.30	0.01	0.005	mg/L	1.0	SM4500-P F	1/24/2008	SO	OPHOS-080124A	
E-10139	HYDROGEN ION (pH)	7.14			pH Units	1.0	SM4500-H+ B	1/24/2008	MAK	PH_080124	
E-10617	TURBIDITY	13.9	0.05	0.02	NTU	1.0	180.1	1/24/2008	MAK	TURB_080124	
E-10184	ELECTRICAL CONDUCTIVITY	187	10	10	uS/cm	1.0	SM2510 B	1/25/2008	CCN	EC_080125	
E-11778	HARDNESS	61.9	3.30	0.055	mg CaCl	1.0	200.7	1/29/2008	BJ	200.7-080129A	
E-10117	CHEMICAL OXYGEN DEMAND	18	8.0		mg/L	1.0	SM5220 D	2/1/2008	MAK	COD_080201	

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

WSDOE Lab C1251
WSDOH Lab 046

FORM: MULT_RESULT

Mill Creek Water Treatment Plant Laboratory
581 Mill Creek Road Walla Walla, WA 99362

Lab ID # : 143
Washington State ID : M1873
EPA ID # : WA 01177
Telephone : (509) 522-3775
Fax : (509) 529-9681
Date: 02/19/08

System ID / Name:	Walla Walla Basin Watershed Council	Amount Due:	$175.00
Sampler:	Bob Bower \ T.Baker	Invoice Number:	8002
Address:	P.O. Box 68	Date Collected:	2/13/08
City:	Milton-Freewater	Date Analyzed:	2/13/08
State:	OR Zip Code: 97874	Lab Analyst:	Skifstad

Test Methods Are Selected From The
Standard Methods For Examination Of Water and Wastewater ~ 20th Edition~

Test Method 9222D			
Sample ID #1	Results	Units	Lab Number
Locher Rd-1	0.0	CFU's / 100 mL	143-05243
Sample ID #2	Results	Units	Lab Number
Locher Rd-2	0.0	CFU's / 100 mL	143-05244
Sample ID #3	Results	Units	Lab Number
Locher Rd-3	0.0	CFU's / 100 mL	143-05245
Sample ID #4	Results	Units	Lab Number
[redacted]	[redacted]	CFU's / 100 mL	143-05246
Sample ID #5	Results	Units	Lab Number
[redacted]	[redacted]	CFU's / 100 mL	143-05247
Sample ID #6	Results	Units	Lab Number
[redacted]	[redacted]	CFU's / 100 mL	143-05248
Sample ID #7	Results	Units	Lab Number
[redacted]	[redacted]	CFU's / 100 mL	143-05249

The City of Walla Walla's Mill Creek Water Treatment Laboratory will maintain records pertaining to reconstructing client's data for a minimum of five years from the date of issuance of the final report. Records may be destroyed after that .

Signature Lab Director : Tom Kuehl 2-14-08 (date)

City Of Walla Walla
Water Plant Laboratory
581 Mill Creek Road
Walla Walla, WA 99362

Mill Creek
Water Treatment Plant
Laboratory
581 Mill Creek Road Walla Walla, WA 99362

Lab ID # : 143
Washington State ID : M1873
EPA ID # : WA 01177
Telephone : (509) 522-3775
Fax : (509) 529-9681
Date: 02/19/08

System ID / Name:	Walla Walla Basin Watershed Council	Amount Due:	$154.00
Sampler:	Bob Bower \ T.Baker	Invoice Number:	8002
Address:	P.O. Box 68	Date Collected:	2/13/08
City:	Milton-Freewater	Date Analyzed:	2/13/08
State:	OR Zip Code: 97874	Lab Analyst:	Skifstad

Test Methods Are Selected From The
Standard Methods For Examination Of Water and Wastewater – 20th Edition-

Test Method 9223B			
Sample ID #1	Results	Units	Lab Number
Locher Rd-1	Absence	Presence / Absence	143-05236
Sample ID #2	Results	Units	Lab Number
Locher Rd-2	Presence	Presence / Absence	143-05237
Total Coliform Present / E-Coli Absent_X_Present_			
Sample ID #3	Results	Units	Lab Number
Locher Rd-3	Presence	Presence / Absence	143-05238
Total Coliform Present / E-Coli Absent_X_Present_			
Sample ID #4	Results	Units	Lab Number
[redacted]	[redacted]	Presence / Absence	143-05239
Sample ID #5	Results	Units	Lab Number
[redacted]	[redacted]	Presence / Absence	143-05240
Total Coliform Present / E-Coli Absent_X_Present_			
Sample ID #6	Results	Units	Lab Number
[redacted]	[redacted]	Presence / Absence	143-05241
Sample ID #7	Results	Units	Lab Number
[redacted]	[redacted]	Presence / Absence	143-05242
Total Coliform Present / E-Coli Absent___Present_X_			

The City of Walla Walla's Mill Creek Water Treatment Laboratory will maintain records pertaining to reconstructing client's data for a minimum of five years from the date of issuance of the final report. Records may be destroyed after that.

Signature Lab Director : Tom Krebs 2-14-08
(date)

City Of Walla Walla
Water Plant Laboratory
581 Mill Creek Road
Walla Walla, WA 99362

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
2 / 13 / 08	11 : 05 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Group B Public ☐ Private Household ☒ Other ASR

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ System Name:

Contact Person: BOB BOWER

Day Phone: (541) 938-2170	Cell Phone: (509) 520-3534
Eve. Phone: ( )	FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER / T. BAKER

Specific location where sample collected (address or sample site, and type of faucet): [redacted]

Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample** Provide information below. Chlorinated: Yes____ No____ Chlorine Residual: Total____ Free____

2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)** Provide information below. Unsatisfactory routine lab number: ___ Unsatisfactory routine collect date: ___/___/___ Chlorinated: Yes____ No____ Chlorine Residual: Total____ Free____

3. ☐ **Raw Water Source Sample** Required for Surface Water, GWI, and some Spring Sources) ☐ Total Coliform ☐ Fecal Coliform S | | | | | | Public Systems must provide Source Number from (WFI)

4. ☒ **Sample Collected for Information Only** Construction____ Repairs____ Private Residence____ Other PA

☐ Satisfactory Total Coliform Absent	☒ Unsatisfactory Total Coliform Present and ☒ E.coli present ☐ E.coli absent ☐ Fecal coliform present ☐ Fecal coliform absent

☐ **Replacement Sample Required**

Sample not tested because: ☐ Sample too old (>30 hours) ☐ Improper container ☐ ___

Test unsuitable because: ☐ TNTC ☐ Turbid culture ☐ ___

Bacterial Density Results: Plate Count____/ml. E.coli____/100ml.
Total Coliform____/100ml. Fecal Coliform____/100ml.

MICR Method Code: ☐ 1140 ☐ 1340 ☒ 2720	Date and Time Received: 2/13/08 @ 1 PM
Date Analyzed: 2/13/08 (CS)	Date Reported: 2/14/08
Lab/Sample Number: 143-05242	Lab Use:

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
2 / 13 / 08	8 : 10 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Group B Public ☐ Private Household ☒ Other ASR

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ System Name:

Contact Person: BOB BOWER

Day Phone: (541) 938-2170	Cell Phone: (509) 520-3534
Eve. Phone: ( )	FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER / T. BAKER

Specific location where sample collected (address or sample site, and type of faucet): 1-4

Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample** Provide information below. Chlorinated: Yes____ No____ Chlorine Residual: Total____ Free____

2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)** Provide information below. Unsatisfactory routine lab number: ___ Unsatisfactory routine collect date: ___/___/___ Chlorinated: Yes____ No____ Chlorine Residual: Total____ Free____

3. ☐ **Raw Water Source Sample** Required for Surface Water, GWI, and some Spring Sources) ☐ Total Coliform ☐ Fecal Coliform S | | | | | | Public Systems must provide Source Number from (WFI)

4. ☒ **Sample Collected for Information Only** Construction____ Repairs____ Private Residence____ Other MFC

☐ Satisfactory Total Coliform Absent	☐ Unsatisfactory Total Coliform Present and ☐ E.coli present ☐ E.coli absent ☐ Fecal coliform present ☐ Fecal coliform absent

☐ **Replacement Sample Required**

Sample not tested because: ☐ Sample too old (>30 hours) ☐ Improper container ☐ ___

Test unsuitable because: ☐ TNTC ☐ Turbid culture ☐ ___

Bacterial Density Results: Plate Count____/ml. E.coli____/100ml.
Total Coliform____/100ml. Fecal Coliform 20 /100ml.

MICR Method Code: ☒ 1140 ☐ 1340 ☐ 2720	Date and Time Received: 2/13/08 @ 1 PM
Date Analyzed: 2/13/08 (CS)	Date Reported: 2/14/08
Lab/Sample Number: 143-05243	Lab Use:

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
2/13/08	9:14 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☐ Other

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED Council
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER / T. BAKER
Specific location where sample collected (address or sample site, and type of faucet): L-3
Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample**
Provide information below.
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)**
Provide information below.
Unsatisfactory routine lab number: ___
Unsatisfactory routine collect date: __/__/__
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

3. ☐ **Raw Water Source Sample**
Required for Surface Water, GWI, and some Spring Sources)
☐ Total Coliform ☐ Fecal Coliform
S | | | |
Public Systems must provide Source Number from (WFI)

4. ☒ **Sample Collected for Information Only**
Construction____ Repairs____ Private Residence____ Other PA

☐ **Satisfactory**
Total Coliform Absent

☒ **Unsatisfactory**
Total Coliform Present and
☐ E.coli present ☒ E.coli absent
☐ Fecal coliform present ☐ Fecal coliform absent

☐ **Replacement Sample Required**
Sample not tested because:
☐ Sample too old (>30 hours)
☐ Improper container
☐ ___
Test unsuitable because:
☐ TNTC
☐ Turbid culture
☐ ___

Bacterial Density Results: Plate Count____/ml. E.coli____/100ml.
Total Coliform____/100ml. Fecal Coliform____/100ml.

MICR Method Code: ☐ 1140 ☐ 1340 ☒ 2720
Date and Time Received: 2/13/08 @ 1[illegible] PM
Date Analyzed: 2/13/08 (CS)
Date Reported: 2/14/08
Lab/Sample Number: 143- 05238
Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
2/13/08	9:45 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☒ Other ASR

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED Council
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER / T. BAKER
Specific location where sample collected (address or sample site, and type of faucet): [redacted]
Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample**
Provide information below.
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)**
Provide information below.
Unsatisfactory routine lab number: ___
Unsatisfactory routine collect date: __/__/__
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

3. ☐ **Raw Water Source Sample**
Required for Surface Water, GWI, and some Spring Sources)
☐ Total Coliform ☐ Fecal Coliform
S | | | |
Public Systems must provide Source Number from (WFI)

4. ☒ **Sample Collected for Information Only**
Construction____ Repairs____ Private Residence____ Other PA

☒ **Satisfactory**
Total Coliform Absent
AB SENT

☐ **Unsatisfactory**
Total Coliform Present and
☐ E.coli present ☐ E.coli absent
☐ Fecal coliform present ☐ Fecal coliform absent

☐ **Replacement Sample Required**
Sample not tested because:
☐ Sample too old (>30 hours)
☐ Improper container
☐ ___
Test unsuitable because:
☐ TNTC
☐ Turbid culture
☐ ___

Bacterial Density Results: Plate Count____/ml. E.coli____/100ml.
Total Coliform____/100ml. Fecal Coliform____/100ml.

MICR Method Code: ☐ 1140 ☐ 1340 ☒ 2720
Date and Time Received: 2/13/08 @ 1[illegible] PM
Date Analyzed: 2/13/08 (CS)
Date Reported: 2/14/08
Lab/Sample Number: 143- 05239
Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road · Walla Walla, WA 99362
Phone 509/522-3775 · Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
2 / 13 / 08	8:10 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☒ Other A&R

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ ___ ___ ___ ___ ___
System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name):
BOB BOWER / T. BAKER

Specific location where sample collected (address or sample site, and type of faucet):
L-1

Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample**
Provide information below.
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)**
Provide information below.
Unsatisfactory routine lab number:
___ ___ ___ ___ ___ ___ ___
Unsatisfactory routine collect date:
____/____/____
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

☐ **Raw Water Source Sample**
Required for Surface Water, GWI, and some Spring Sources)
☐ Total Coliform
$ | | | | | | ☐ Fecal Coliform
Public Systems must provide Source Number from (WFI)

☒ **Sample Collected for Information Only**
Construction____ Repairs____ Private Residence____ Other PA

☐ **Satisfactory**
Total Coliform Absent
ABSENT

☐ **Unsatisfactory**
Total Coliform Present and
☐ E.coli present ☐ E.coli absent
☐ Fecal coliform present ☐ Fecal coliform absent

Replacement Sample Required
Sample not tested because:
☐ Sample too old (>30 hours)
☐ Improper container
Test unsuitable because:
☐ TNTC
☐ Turbid culture
☐ ___

Bacterial Density Results: Plate Count____/ml. E.coli____/100ml.
Total Coliform____/100ml. Fecal Coliform____/100ml.

MICR Method Code:
☐ 1140 ☐ 1340 ☒ 2720
Date and Time Received: 2/13/08 @ 1 PM
Date Analyzed: 2/13/08 (CS)
Date Reported: 2/14/08
Sample Number: 43-05236
Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road · Walla Walla, WA 99362
Phone 509/522-3775 · Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
2 / 13 / 08	8:40 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☐ Other

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID# ___ ___ ___ ___ ___ ___
System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
810 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name):
BOB BOWER / T. BAKER

Specific location where sample collected (address or sample site, and type of faucet):
L-2

Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ **Routine Distribution Sample**
Provide information below.
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

2. ☐ **Repeat Sample (follow-up to an unsatisfactory sample)**
Provide information below.
Unsatisfactory routine lab number:
___ ___ ___ ___ ___ ___ ___
Unsatisfactory routine collect date:
____/____/____
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

3. ☐ **Raw Water Source Sample**
Required for Surface Water, GWI, and some Spring Sources)
☐ Total Coliform
$ | | | | | | ☐ Fecal Coliform
Public Systems must provide Source Number from (WFI)

4. ☒ **Sample Collected for Information Only**
Construction____ Repairs____ Private Residence____ Other PA

☐ **Satisfactory**
Total Coliform Absent

☒ **Unsatisfactory**
Total Coliform Present and
☐ E.coli present ☒ E.coli absent
☐ Fecal coliform present ☐ Fecal coliform absent

☐ **Replacement Sample Required**
Sample not tested because:
☐ Sample too old (>30 hours)
☐ Improper container
☐ ___
Test unsuitable because:
☐ TNTC
☐ Turbid culture
☐ ___

Bacterial Density Results: Plate Count____/ml. E.coli____/100ml.
Total Coliform____/100ml. Fecal Coliform____/100ml.

MICR Method Code:
☐ 1140 ☐ 1340 ☒ 2720
Date and Time Received: 2/13/08 @ 1 PM
Date Analyzed: 2/13/08 (CS)
Date Reported: 2/14/08
Lab/Sample Number: 143-05237
Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
2 / 13 / 08	8 : 40 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☐ Other

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID#
System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
310 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR. 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER / T. BAILER
Specific location where sample collected (address or sample site, and type of faucet): L-2
Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ Routine Distribution Sample
Provide information below.
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

2. ☐ Repeat Sample (follow-up to an unsatisfactory sample)
Provide information below.
Unsatisfactory routine lab number:
Unsatisfactory routine collect date: ___/___/___
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

3. ☐ Raw Water Source Sample
Required for Surface Water, GWI, and some Spring Sources)
☐ Total Coliform
S | | | | ☐ Fecal Coliform
Public Systems must provide Source Number from (WFI)

4. ☒ Sample Collected for Information Only
Construction____ Repairs____ Private Residence____ Other MFC

☐ Satisfactory
Total Coliform Absent

☐ Unsatisfactory
Total Coliform Present and
☐ E.coli present ☐ E.coli absent
☐ Fecal coliform present ☐ Fecal coliform absent

☐ Replacement Sample Required

Sample not tested because:
☐ Sample too old (>30 hours)
☐ Improper container
☐ ____

Test unsuitable because:
☐ TNTC
☐ Turbid culture
☐ ____

Bacterial Density Results: Plate Count____/ml. E.coli____/100ml.
Total Coliform____/100ml. Fecal Coliform 0 0 /100ml.

MICR Method Code: ☒ 1140 ☐ 1340 ☐ 2720
Date and Time Received: 2/13/08 @ 1 PM
Date Analyzed: 2/13/08 (CS)
Date Reported: 2/14/08
Lab/Sample Number: 143- 05244
Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

CITY OF WALLA WALLA
MILL CREEK WATER TREATMENT PLANT
581 Mill Creek Road • Walla Walla, WA 99362
Phone 509/522-3775 • Fax 509/529-9681

COLIFORM BACTERIA ANALYSIS

SAMPLE COLLECTION: READ INSTRUCTIONS ON BACK OF GOLDEN ROD COPY
If instructions are not followed, sample will be rejected.

Date Sample Collected (Month Day Year)	Time Sample Collected	County
2 / 13 / 08	9 : 14 ☒ AM ☐ PM	

Type of Water System (check only one box)
☐ Group A Public ☐ Private Household
☐ Group B Public ☐ Other

Group A and Group B Systems – Provide from Water Facilities Inventory (WFI):
ID#
System Name:

Contact Person: BOB BOWER
Day Phone: (541) 938-2170 Cell Phone: (509) 520-3534
Eve. Phone: ( ) FAX: ( )

Send results to: (Print full name, address and zip code)
WALLA WALLA BASIN WATERSHED COUNCIL
310 S. MAIN P.O. BOX 68
MILTON-FREEWATER, OR 97862

SAMPLE INFORMATION

Sample collected by (name): BOB BOWER / T. BAILER
Specific location where sample collected (address or sample site, and type of faucet): L-3
Special instructions or comments:

Type of Sample (must check only one box of #1 through #4 listed below)

1. ☐ Routine Distribution Sample
Provide information below.
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

2. ☐ Repeat Sample (follow-up to an unsatisfactory sample)
Provide information below.
Unsatisfactory routine lab number:
Unsatisfactory routine collect date: ___/___/___
Chlorinated: Yes____ No____
Chlorine Residual: Total____ Free____

3. ☐ Raw Water Source Sample
Required for Surface Water, GWI, and some Spring Sources)
☐ Total Coliform
S | | | | ☐ Fecal Coliform
Public Systems must provide Source Number from (WFI)

4. ☒ Sample Collected for Information Only
Construction____ Repairs____ Private Residence____ Other MFC

☐ Satisfactory
Total Coliform Absent

☐ Unsatisfactory
Total Coliform Present and
☐ E.coli present ☐ E.coli absent
☐ Fecal coliform present ☐ Fecal coliform absent

☐ Replacement Sample Required

Sample not tested because:
☐ Sample too old (>30 hours)
☐ Improper container
☐ ____

Test unsuitable because:
☐ TNTC
☐ Turbid culture
☐ ____

Bacterial Density Results: Plate Count____/ml. E.coli____/100ml.
Total Coliform____/100ml. Fecal Coliform 0 0 /100ml.

MICR Method Code: ☒ 1140 ☐ 1340 ☐ 2720
Date and Time Received: 2/13/08 @ 1 PM
Date Analyzed: 2/13/08 (CS)
Date Reported: 2/14/08
Lab/Sample Number: 143- 05245
Lab Use:

DOH Form #331-319 (revised 5/06) SEE REVERSE OF GREEN COPY FOR EXPLANATION OF RESULTS

ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
360.671.0688 • 360.671.1577fax

March 10, 2008

Bob Bower
Walla Walla Basin Watershed Council
810 S Main Street
Milton-Freewater, OR 97862

RE: 08-01833 - LocherHall-Wentland/HBDIC

Dear Bob Bower,

Your project: LocherHall-Wentland/HBDIC, was received on Thursday February 14, 2008.
All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

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

Respectfully Submitted,

Lawrence J Henderson, PhD
Director of Laboratories

Enclosures Data Report
QC Reports
Chain of Custody

ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

Data Report

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

Report Date: 3/7/2008
Reference Number: 08-01833
Project: LocherHall-Wentland/HBDIC

Collected By: T Baker/L Lewis

Date Received: 2/14/2008
Peer Review: JW

Lab Number: 4099 Sample Description: L-1 - Locher Well #1 Sample Date: 2/13/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	5.55	0.100	0.015	mg/L	1.0	300.0	2/15/2008	BJ	I080215	
E-10173	TOTAL DISSOLVED SOLIDS	236	10	10	mg/L	1.0	SM2540 C	2/18/2008	CCN	TDS_080218	
16887-00-6	CHLORIDE	5.6	0.1	0.0143	mg/L	1.0	300.0	2/15/2008	BJ	I080215	
14265-44-2	ORTHO-PHOSPHATE	0.36	0.01	0.005	mg/L	1.0	SM4500-P F	2/14/2008	SO	OPHOS-080214A	
E-10139	HYDROGEN ION (pH)	7.13			pH Units	1.0	SM4500-H+ B	2/14/2008	MAK	PH_080214	
E-10617	TURBIDITY	44.4	0.10	0.04	NTU	2.0	180.1	2/14/2008	MAK	TURB_080214	
E-10184	ELECTRICAL CONDUCTIVITY	384	10	10	uS/cm	1.0	SM2510 B	2/15/2008	CCN	EC_080215	
E-11778	HARDNESS	154	3.30	0.055	mg CaC	1.0	200.7	2/18/2008	BJ	200.7-080218A	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0		mg/L	1.0	SM5220 D	2/15/2008	MAK	COD_080215	
15541-45-4	BROMATE	ND	0.005	0.0016	mg/L	1.0	300.1	3/4/2008	MVP	D080303A	

Lab Number: 4100 Sample Description: L-2 - Locher Well #2 Sample Date: 2/13/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	3.5	0.100	0.015	mg/L	1.0	300.0	2/14/2008	BJ	I080214A	
E-10173	TOTAL DISSOLVED SOLIDS	196	10	10	mg/L	1.0	SM2540 C	2/18/2008	CCN	TDS_080218	
16887-00-6	CHLORIDE	5.5	0.10	0.0143	mg/L	1.0	300.0	2/14/2008	BJ	I080214A	
14265-44-2	ORTHO-PHOSPHATE	0.33	0.01	0.005	mg/L	1.0	SM4500-P F	2/14/2008	SO	OPHOS-080214A	
E-10139	HYDROGEN ION (pH)	7.07			pH Units	1.0	SM4500-H+ B	2/14/2008	MAK	PH_080214	
E-10617	TURBIDITY	8.65	0.05	0.02	NTU	1.0	180.1	2/14/2008	MAK	TURB_080214	
E-10184	ELECTRICAL CONDUCTIVITY	284	10	10	uS/cm	1.0	SM2510 B	2/15/2008	CCN	EC_080215	
E-11778	HARDNESS	111.7	3.30	0.055	mg CaC	1.0	200.7	2/18/2008	BJ	200.7-080218A	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0		mg/L	1.0	SM5220 D	2/15/2008	MAK	COD_080215	
15541-45-4	BROMATE	ND	0.005	0.0016	mg/L	1.0	300.1	3/4/2008	MVP	D080303A	

Lab Number: 4101 Sample Description: L-3 - Locher Well #3 Sample Date: 2/13/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	4.51	0.100	0.015	mg/L	1.0	300.0	2/14/2008	BJ	I080214A	
E-10173	TOTAL DISSOLVED SOLIDS	148	10	10	mg/L	1.0	SM2540 C	2/18/2008	CCN	TDS_080218	
16887-00-6	CHLORIDE	5.5	0.10	0.0143	mg/L	1.0	300.0	2/14/2008	BJ	I080214A	
14265-44-2	ORTHO-PHOSPHATE	0.32	0.01	0.005	mg/L	1.0	SM4500-P F	2/14/2008	SO	OPHOS-080214A	
E-10139	HYDROGEN ION (pH)	7.15			pH Units	1.0	SM4500-H+ B	2/14/2008	MAK	PH_080214	
E-10617	TURBIDITY	29.4	0.05	0.02	NTU	1.0	180.1	2/14/2008	MAK	TURB_080214	
E-10184	ELECTRICAL CONDUCTIVITY	197	10	10	uS/cm	1.0	SM2510 B	2/15/2008	CCN	EC_080215	

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

WSDOE Lab C1251
WSDOH Lab 046

FORM: MULT_RESULT

Reference Number: 08-01833
Report Date: 3/7/2008

Data Report

Collected By: T Baker/L Lewis

Date Received: 2/14/2008

E-11778	**HARDNESS**	**75.3**	3.30	0.055	mg CaC(	1.0	200.7	2/18/2008	BJ	200.7-080218A
E-10117	**CHEMICAL OXYGEN DEMAND**	**ND**	8.0		mg/L	1.0	SM5220 D	2/15/2008	MAK	COD_080215
15541-45-4	**BROMATE**	**ND**	0.005	0.0016	mg/L	1.0	300.1	3/4/2008	MVP	D080303A

Lab Number: 4102 Sample Description: HW-1 - Hall-Wentland OBS #1 Sample Date: 2/13/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	**NITRATE-N**	**1.82**	0.100	0.015	mg/L	1.0	300.0	2/14/2008	BJ	I080214A	
E-10173	**TOTAL DISSOLVED SOLIDS**	**137**	10	10	mg/L	1.0	SM2540 C	2/18/2008	CCN	TDS_080218	
16887-00-6	**CHLORIDE**	**2.8**	0.10	0.0143	mg/L	1.0	300.0	2/14/2008	BJ	I080214A	
14265-44-2	**ORTHO-PHOSPHATE**	**0.31**	0.01	0.005	mg/L	1.0	SM4500-P F	2/14/2008	SO	OPHOS-080214A	
E-10139	**HYDROGEN ION (pH)**	**6.67**			pH Units	1.0	SM4500-H+ B	2/14/2008	MAK	PH_080214	
E-10617	**TURBIDITY**	**0.98**	0.05	0.02	NTU	1.0	180.1	2/14/2008	MAK	TURB_080214	
E-10184	**ELECTRICAL CONDUCTIVITY**	**175**	10	10	uS/cm	1.0	SM2510 B	2/15/2008	CCN	EC_080215	
E-11778	**HARDNESS**	**69.2**	3.30	0.055	mg CaC(	1.0	200.7	2/18/2008	BJ	200.7-080218A	
E-10117	**CHEMICAL OXYGEN DEMAND**	**ND**	8.0		mg/L	1.0	SM5220 D	2/15/2008	MAK	COD_080215	
15541-45-4	**BROMATE**	**ND**	0.005	0.0016	mg/L	1.0	300.1	3/4/2008	MVP	D080303A	

Lab Number: 4103 Sample Description: HW-2 - Hall-Wentland OBS #2 Sample Date: 2/13/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	**NITRATE-N**	**3.46**	0.100	0.015	mg/L	1.0	300.0	2/14/2008	BJ	I080214A	
E-10173	**TOTAL DISSOLVED SOLIDS**	**140**	10	10	mg/L	1.0	SM2540 C	2/18/2008	CCN	TDS_080218	
16887-00-6	**CHLORIDE**	**5**	0.10	0.0143	mg/L	1.0	300.0	2/14/2008	BJ	I080214A	
14265-44-2	**ORTHO-PHOSPHATE**	**0.34**	0.01	0.005	mg/L	1.0	SM4500-P F	2/14/2008	SO	OPHOS-080214A	
E-10139	**HYDROGEN ION (pH)**	**6.59**			pH Units	1.0	SM4500-H+ B	2/14/2008	MAK	PH_080214	
E-10617	**TURBIDITY**	**0.88**	0.05	0.02	NTU	1.0	180.1	2/14/2008	MAK	TURB_080214	
E-10184	**ELECTRICAL CONDUCTIVITY**	**178**	10	10	uS/cm	1.0	SM2510 B	2/15/2008	CCN	EC_080215	
E-11778	**HARDNESS**	**72.9**	3.30	0.055	mg CaC(	1.0	200.7	2/18/2008	BJ	200.7-080218A	
E-10117	**CHEMICAL OXYGEN DEMAND**	**ND**	8.0		mg/L	1.0	SM5220 D	2/15/2008	MAK	COD_080215	
15541-45-4	**BROMATE**	**ND**	0.005	0.0016	mg/L	1.0	300.1	3/4/2008	MVP	D080303A	

Lab Number: 4104 Sample Description: HW-3 - Hall-Wentland OBS #3 Sample Date: 2/13/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	**NITRATE-N**	**3.61**	0.100	0.015	mg/L	1.0	300.0	2/14/2008	BJ	I080214A	
E-10173	**TOTAL DISSOLVED SOLIDS**	**130**	10	10	mg/L	1.0	SM2540 C	2/18/2008	CCN	TDS_080218	
16887-00-6	**CHLORIDE**	**5.1**	0.10	0.0143	mg/L	1.0	300.0	2/14/2008	BJ	I080214A	
14265-44-2	**ORTHO-PHOSPHATE**	**0.29**	0.01	0.005	mg/L	1.0	SM4500-P F	2/14/2008	SO	OPHOS-080214A	
E-10139	**HYDROGEN ION (pH)**	**6.64**			pH Units	1.0	SM4500-H+ B	2/14/2008	MAK	PH_080214	
E-10617	**TURBIDITY**	**6.94**	0.05	0.02	NTU	1.0	180.1	2/14/2008	MAK	TURB_080214	
E-10184	**ELECTRICAL CONDUCTIVITY**	**161**	10	10	uS/cm	1.0	SM2510 B	2/15/2008	CCN	EC_080215	
E-11778	**HARDNESS**	**63.2**	3.30	0.055	mg CaC(	1.0	200.7	2/18/2008	BJ	200.7-080218A	
E-10117	**CHEMICAL OXYGEN DEMAND**	**ND**	8.0		mg/L	1.0	SM5220 D	2/15/2008	MAK	COD_080215	
15541-45-4	**BROMATE**	**ND**	0.005	0.0016	mg/L	1.0	300.1	3/6/2008	MVP	D080306A	

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

ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

HERBICIDES IN DRINKING WATER

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

Reference Number: 08-01833

Project: LocherHall-Wentland/HBDIC
Field ID: L-1
Sample Description: Locher Well #1
Sampled By: T Baker/L Lewis
Sample Date: 2/13/2008
Source Type:
Sampler Phone:

Lab Number: 04099
Report Date: 3/4/2008
Date Analyzed: 2/22/2008
Extraction Date: 515_080226
Analyst: CO
Peer Review: MVA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	ND	ug/L	0.1	0.089		
E-14-02-8	DCPA (ACID METABOLITES)	ND	ug/L	0.1	0.1		
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.

PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671 1577fax

HERBICIDES IN DRINKING WATER

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

Reference Number: 08-01833

Project: LocherHall-Wentland/HBDIC
Field ID: L-2
Sample Description: Locher Well #2
Sampled By: T Baker/L Lewis
Sample Date: 2/13/2008
Source Type:
Sampler Phone:

Lab Number: 04100
Report Date: 3/4/2008
Date Analyzed: 2/22/2008
Extraction Date: 515_080226
Analyst: CO
Peer Review: MVA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	ND	ug/L	0.1	0.089		
E-14-02-8	DCPA (ACID METABOLITES)	ND	ug/L	0.1	0.1		
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

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HERBICIDES IN DRINKING WATER

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

Reference Number: 08-01833

Project: LocherHall-Wentland/HBDIC
Field ID: L-3
Sample Description: Locher Well #3
Sampled By: T Baker/L Lewis
Sample Date: 2/13/2008
Source Type:
Sampler Phone:

Lab Number: 04101
Report Date: 3/4/2008
Date Analyzed: 2/22/2008
Extraction Date: 515_080226
Analyst: CO
Peer Review: MVA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	ND	ug/L	0.1	0.089		
E-14-02-8	DCPA (ACID METABOLITES)	ND	ug/L	0.1	0.1		
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

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J - Estimated value.

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SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

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

Reference Number: 08-01833

Project: LocherHall-Wentland/HBDIC
Field ID: L-1
Sample Description: Locher Well #1
Sampled By: T Baker/L Lewis
Sample Date: 2/13/2008
Source Type:
Sampler Phone:

Lab Number: 04099
Report Date: 3/3/2008
Date Analyzed: 3/2/2008
Extraction Date: 525_080221
Analyst: CO
Peer Review: MtA
Analytical Method: 525.2
Synthetic Organics

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
72-20-8	ENDRIN	**ND**	ug/L	0.1	0.030	2	
58-89-9	LINDANE (BHC - GAMMA)	**ND**	ug/L	0.1	0.028	0.2	
72-43-5	METHOXYCHLOR	**ND**	ug/L	0.1	0.015	40	
15972-60-8	ALACHLOR	**ND**	ug/L	0.1	0.044	2	
1912-24-9	ATRAZINE	**ND**	ug/L	0.1	0.030	3	
50-32-8	BENZO(A)PYRENE	**ND**	ug/L	0.1	0.012	0.2	
57-74-9	CHLORDANE, TECHNICAL	**ND**	ug/L	0.1	0.3	2	
103-23-1	DI(ETHYLHEXYL)-ADIPATE	**ND**	ug/L	0.1	0.022	400	
117-81-7	DI(ETHYLHEXYL)-PHTHALATE	**ND**	ug/L	0.1	0.063	6	
76-44-8	HEPTACHLOR	**ND**	ug/L	0.1	0.022	0.4	
1024-57-3	HEPTACHLOR EPOXIDE	**ND**	ug/L	0.1	0.02	0.2	
118-74-1	HEXACHLOROBENZENE	**ND**	ug/L	0.1	0.025	1	
77-47-4	HEXACHLOROCYCLO-PENTADIENE	**ND**	ug/L	0.1	0.024	50	
122-34-9	SIMAZINE	**ND**	ug/L	0.1	0.030	4	
87-86-5	PENTACHLOROPHENOL	**ND**	ug/L	0.4	0.08	1	screening only / compliance by 515.1
	EPA Unregulated						
309-00-2	ALDRIN	**ND**	ug/L	0.1	0.022		
23184-66-9	BUTACHLOR	**ND**	ug/L	0.1	0.024		
60-57-1	DIELDRIN	**ND**	ug/L	0.1	0.031		
51218-45-2	METOLACHLOR	**ND**	ug/L	0.1	0.024		
21087-64-9	METRIBUZIN	**ND**	ug/L	0.1	0.030		
1918-16-7	PROPACHLOR	**ND**	ug/L	0.1	0.031		
	State Unregulated - Other						
314-40-9	BROMACIL	**0.32**	ug/L	0.1	0.031		Field dup 0.39 ug/L
5902-51-2	TERBACIL	**ND**	ug/L	0.1	0.043		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

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POL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
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J - Estimated value.

SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
333-41-5	DIAZINON	ND	ug/L	0.1	0.035		Unstable in Acidified Sample Matrix
759-94-4	EPTC	ND	ug/L	0.1	0.028		
72-54-8	4,4-DDD	ND	ug/L	0.1	0.024		
72-55-9	4,4-DDE	ND	ug/L	0.1	0.024		
50-29-3	4,4-DDT	ND	ug/L	0.1	0.022		
21725-46-2	CYANAZINE	ND	ug/L	0.1	0.13		Qualitative Analysis Only
121-75-5	MALATHION	ND	ug/L	0.1	0.015		
56-38-2	PARATHION	ND	ug/L	0.1	0.022		
1582-09-8	TRIFLURALIN	ND	ug/L	0.1	0.024		
	- PAHs						
91-20-3	NAPTHALENE	ND	ug/L	0.1	0.1^		
86-73-7	FLUORENE	ND	ug/L	0.1	0.026		
208-96-8	ACENAPHTHYLENE	ND	ug/L	0.1	0.025		
83-32-9	ACENAPHTHENE	ND	ug/L	0.1	0.1^		
120-12-7	ANTHRACENE	ND	ug/L	0.1	0.012		
56-55-3	BENZ(A)ANTHRACENE	ND	ug/L	0.1	0.012		
205-99-2	BENZO(B)FLUORANTHENE	ND	ug/L	0.1	0.025		
191-24-2	BENZO(G,H,I)PERYLENE	ND	ug/L	0.1	0.025		
207-08-9	BENZO(K)FLUORANTHENE	ND	ug/L	0.1	0.022		
218-01-9	CHRYSENE	ND	ug/L	0.1	0.022		
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	ug/L	0.1	0.024		
206-44-0	FLUORANTHENE	ND	ug/L	0.1	0.1^		
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	ug/L	0.1	0.040		
85-01-8	PHENANTHRENE	ND	ug/L	0.1	0.015		
129-00-0	PYRENE	ND	ug/L	0.1	0.022		
	- Phthalates						
85-68-7	BENZYL BUTYL PHTHALATE	ND	ug/L	0.1	0.022		
84-74-2	DI-N-BUTYL PHTHALATE	ND	ug/L	0.1	0.085		
84-66-2	DIETHYL PHTHALATE	ND	ug/L	0.1	0.044		
131-11-3	DIMETHYL PHTHALATE	ND	ug/L	0.1	0.015		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

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SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

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

Reference Number: 08-01833

Project: LocherHall-Wentland/HBDIC
Field ID: L-2
Sample Description: Locher Well #2
Sampled By: T Baker/L Lewis
Sample Date: 2/13/2008
Source Type:
Sampler Phone:

Lab Number: 04100
Report Date: 3/3/2008
Date Analyzed: 3/2/2008
Extraction Date: 525_080221
Analyst: CO
Peer Review: MVA
Analytical Method: 525.2
Synthetic Organics

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
72-20-8	ENDRIN	ND	ug/L	0.1	0.030	2	
58-89-9	LINDANE (BHC - GAMMA)	ND	ug/L	0.1	0.028	0.2	
72-43-5	METHOXYCHLOR	ND	ug/L	0.1	0.015	40	
15972-60-8	ALACHLOR	ND	ug/L	0.1	0.044	2	
1912-24-9	ATRAZINE	ND	ug/L	0.1	0.030	3	
50-32-8	BENZO(A)PYRENE	ND	ug/L	0.1	0.012	0.2	
57-74-9	CHLORDANE, TECHNICAL	ND	ug/L	0.1	0.3	2	
103-23-1	DI(ETHYLHEXYL)-ADIPATE	ND	ug/L	0.1	0.022	400	
117-81-7	DI(ETHYLHEXYL)-PHTHALATE	ND	ug/L	0.1	0.063	6	
76-44-8	HEPTACHLOR	ND	ug/L	0.1	0.022	0.4	
1024-57-3	HEPTACHLOR EPOXIDE	ND	ug/L	0.1	0.02	0.2	
118-74-1	HEXACHLOROBENZENE	ND	ug/L	0.1	0.025	1	
77-47-4	HEXACHLOROCYCLO-PENTADIENE	ND	ug/L	0.1	0.024	50	
122-34-9	SIMAZINE	ND	ug/L	0.1	0.030	4	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.4	0.08	1	screening only / compliance by 515.1
	EPA Unregulated						
309-00-2	ALDRIN	ND	ug/L	0.1	0.022		
23184-66-9	BUTACHLOR	ND	ug/L	0.1	0.024		
60-57-1	DIELDRIN	ND	ug/L	0.1	0.031		
51218-45-2	METOLACHLOR	ND	ug/L	0.1	0.024		
21087-64-9	METRIBUZIN	ND	ug/L	0.1	0.030		
1918-16-7	PROPACHLOR	ND	ug/L	0.1	0.031		
	State Unregulated - Other						
314-40-9	BROMACIL	ND	ug/L	0.1	0.031		
5902-51-2	TERBACIL	ND	ug/L	0.1	0.043		

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SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
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759-94-4	EPTC	ND	ug/L	0.1	0.028		
72-54-8	4,4-DDD	ND	ug/L	0.1	0.024		
72-55-9	4,4-DDE	ND	ug/L	0.1	0.024		
50-29-3	4,4-DDT	ND	ug/L	0.1	0.022		
21725-46-2	CYANAZINE	ND	ug/L	0.1	0.13		Qualitative Analysis Only
121-75-5	MALATHION	ND	ug/L	0.1	0.015		
56-38-2	PARATHION	ND	ug/L	0.1	0.022		
1582-09-8	TRIFLURALIN	ND	ug/L	0.1	0.024		
	- PAHs						
91-20-3	NAPTHALENE	ND	ug/L	0.1	0.1^		
86-73-7	FLUORENE	ND	ug/L	0.1	0.026		
208-96-8	ACENAPHTHYLENE	ND	ug/L	0.1	0.025		
83-32-9	ACENAPHTHENE	ND	ug/L	0.1	0.1^		
120-12-7	ANTHRACENE	ND	ug/L	0.1	0.012		
56-55-3	BENZ(A)ANTHRACENE	ND	ug/L	0.1	0.012		
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207-08-9	BENZO(K)FLUORANTHENE	ND	ug/L	0.1	0.022		
218-01-9	CHRYSENE	ND	ug/L	0.1	0.022		
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	ug/L	0.1	0.024		
206-44-0	FLUORANTHENE	ND	ug/L	0.1	0.1^		
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	ug/L	0.1	0.040		
85-01-8	PHENANTHRENE	ND	ug/L	0.1	0.015		
129-00-0	PYRENE	ND	ug/L	0.1	0.022		
	- Phthalates						
85-68-7	BENZYL BUTYL PHTHALATE	ND	ug/L	0.1	0.022		
84-74-2	DI-N-BUTYL PHTHALATE	ND	ug/L	0.1	0.085		
84-66-2	DIETHYL PHTHALATE	ND	ug/L	0.1	0.044		
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SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

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

Reference Number: 08-01833

Project: LocherHall-Wentland/HBDIC
Field ID: L-3
Sample Description: Locher Well #3
Sampled By: T Baker/L Lewis
Sample Date: 2/13/2008
Source Type:
Sampler Phone:

Lab Number: 04101
Report Date: 3/3/2008
Date Analyzed: 3/2/2008
Extraction Date: 525_080221
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CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
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57-74-9	CHLORDANE, TECHNICAL	ND	ug/L	0.1	0.3	2	
103-23-1	DI(ETHYLHEXYL)-ADIPATE	ND	ug/L	0.1	0.022	400	
117-81-7	DI(ETHYLHEXYL)-PHTHALATE	ND	ug/L	0.1	0.063	6	
76-44-8	HEPTACHLOR	ND	ug/L	0.1	0.022	0.4	
1024-57-3	HEPTACHLOR EPOXIDE	ND	ug/L	0.1	0.02	0.2	
118-74-1	HEXACHLOROBENZENE	ND	ug/L	0.1	0.025	1	
77-47-4	HEXACHLOROCYCLO-PENTADIENE	ND	ug/L	0.1	0.024	50	
122-34-9	SIMAZINE	ND	ug/L	0.1	0.030	4	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.4	0.08	1	screening only / compliance by 515.1
	EPA Unregulated						
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314-40-9	BROMACIL	ND	ug/L	0.1	0.031		
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SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
333-41-5	DIAZINON	ND	ug/L	0.1	0.035		Unstable in Acidified Sample Matrix
759-94-4	EPTC	ND	ug/L	0.1	0.028		
72-54-8	4,4-DDD	ND	ug/L	0.1	0.024		
72-55-9	4,4-DDE	ND	ug/L	0.1	0.024		
50-29-3	4,4-DDT	ND	ug/L	0.1	0.022		
21725-46-2	CYANAZINE	ND	ug/L	0.1	0.13		Qualitative Analysis Only
121-75-5	MALATHION	ND	ug/L	0.1	0.015		
56-38-2	PARATHION	ND	ug/L	0.1	0.022		
1582-09-8	TRIFLURALIN	ND	ug/L	0.1	0.024		
	- PAHs						
91-20-3	NAPTHALENE	ND	ug/L	0.1	0.1^		
86-73-7	FLUORENE	ND	ug/L	0.1	0.026		
208-96-8	ACENAPHTHYLENE	ND	ug/L	0.1	0.025		
83-32-9	ACENAPHTHENE	ND	ug/L	0.1	0.1^		
120-12-7	ANTHRACENE	ND	ug/L	0.1	0.012		
56-55-3	BENZ(A)ANTHRACENE	ND	ug/L	0.1	0.012		
205-99-2	BENZO(B)FLUORANTHENE	ND	ug/L	0.1	0.025		
191-24-2	BENZO(G,H,I)PERYLENE	ND	ug/L	0.1	0.025		
207-08-9	BENZO(K)FLUORANTHENE	ND	ug/L	0.1	0.022		
218-01-9	CHRYSENE	ND	ug/L	0.1	0.022		
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	ug/L	0.1	0.024		
206-44-0	FLUORANTHENE	ND	ug/L	0.1	0.1^		
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	ug/L	0.1	0.040		
85-01-8	PHENANTHRENE	ND	ug/L	0.1	0.015		
129-00-0	PYRENE	ND	ug/L	0.1	0.022		
	- Phthalates						
85-68-7	BENZYL BUTYL PHTHALATE	ND	ug/L	0.1	0.022		
84-74-2	DI-N-BUTYL PHTHALATE	ND	ug/L	0.1	0.085		
84-66-2	DIETHYL PHTHALATE	ND	ug/L	0.1	0.044		
131-11-3	DIMETHYL PHTHALATE	ND	ug/L	0.1	0.015		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.

PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

ANALYTICAL LABORATORIES

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Microbiology | 360.671.0688 • 360.671.1577fax

WSDOE Lab C1251

DATA REPORT

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

Reference Number: 08-01833
Project: LocherHall-Wentland/HBDIC

Lab Number: 4099
Field ID: L-1
Sample Description: Locher Well #1
Matrix: Drinking Water
Collect Date: 2/13/2008
Extraction Date: 2/21/2008
Extraction Method: 3535

Report Date: 3/10/2008
Date Analyzed: 2/22/2008
Analyst: CO
Peer Review: MVA
Analytical Method: 525.2

SOC for Walla Walla

CAS ID#	COMPOUNDS	RESULT	Flag	Units	PQL	MDL	D.F.	Batch	COMMENT
60-51-5	DIMETHOATE	ND		ug/L	0.5	0.03	1.0	WALLA_080221	
57837-19-1	METALAXYL	ND		ug/L	0.1	-	1.0		
15299-99-7	NAPROPAMIDE	ND		ug/L	0.1	0.05	1.0		
122-34-9	SIMAZINE	ND		ug/L	0.1	0.03	1.0		
86-86-2	1-NAPHTHALENEACETAMIDE	ND		ug/L	0.5	-	1.0		
333-41-5	DIAZINON	ND		ug/L	0.1	0.04	1.0		Unstable in Acidified Sample M
60168-88-9	FENARIMOL	ND		ug/L	0.1	0.03	1.0		
58-89-9	LINDANE (BHC - GAMMA)	ND		ug/L	0.1	0.03	1.0		
7786-34-7	MEVINPHOS	ND		ug/l	0.1	0.03	1.0		
86-50-0	AZINPHOS-METHYL	ND		ug/L	0.5	0.12	1.0		
2921-88-2	CHLORPYRIFOS	ND		ug/L	0.1	0.04	1.0		
72-54-8	4,4-DDD	ND		ug/L	0.1	0.02	1.0		
72-55-9	4,4-DDE	ND		ug/L	0.1	0.02	1.0		
50-29-3	4,4-DDT	ND		ug/L	0.1	0.03	1.0		
115-32-2	DICOFOL	ND		ug/L	1	-	1.0		
121-75-5	MALATHION	ND		ug/L	0.1	0.05	1.0		
298-00-0	METHYL PARATHION	ND		ug/L	0.5	0.1	1.0		
56-38-2	PARATHION-ETHYL	ND		ug/L	0.1	0.05	1.0		
732-11-6	PHOSMET	ND		ug/L	0.5	-	1.0		
43121-43-3	TRIADIMEFON	ND		ug/L	0.1	0.07	1.0		
51235-04-2	HEXAZINONE	ND		ug/L	0.1	0.05	1.0		

Result of: NA - Indicates the compound was not analyzed.
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - Indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor.

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WSDOE Lab C1251

DATA REPORT

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

Reference Number: 08-01833
Project: LocherHall-Wentland/HBDIC

Lab Number: 4100
Field ID: L-2
Sample Description: Locher Well #2
Matrix: Drinking Water
Collect Date: 2/13/2008
Extraction Date: 2/21/2008
Extraction Method: 3535

Report Date: 3/10/2008
Date Analyzed: 2/22/2008
Analyst: CO
Peer Review: MVA
Analytical Method: 525.2

SOC for Walla Walla

CAS ID#	COMPOUNDS	RESULT	Flag	Units	PQL	MDL	D.F.	Batch	COMMENT
60-51-5	DIMETHOATE	ND		ug/L	0.5	0.03	1.0	WALLA_080221	
57837-19-1	METALAXYL	ND		ug/L	0.1	-	1.0		
15299-99-7	NAPROPAMIDE	ND		ug/L	0.1	0.05	1.0		
122-34-9	SIMAZINE	ND		ug/L	0.1	0.03	1.0		
86-86-2	1-NAPHTHALENEACETAMIDE	ND		ug/L	0.5	-	1.0		
333-41-5	DIAZINON	ND		ug/L	0.1	0.04	1.0		Unstable in Acidified Sample M
60168-88-9	FENARIMOL	ND		ug/L	0.1	0.03	1.0		
58-89-9	LINDANE (BHC - GAMMA)	ND		ug/L	0.1	0.03	1.0		
7786-34-7	MEVINPHOS	ND		ug/l	0.1	0.03	1.0		
86-50-0	AZINPHOS-METHYL	ND		ug/L	0.5	0.12	1.0		
2921-88-2	CHLORPYRIFOS	ND		ug/L	0.1	0.04	1.0		
72-54-8	4,4-DDD	ND		ug/L	0.1	0.02	1.0		
72-55-9	4,4-DDE	ND		ug/L	0.1	0.02	1.0		
50-29-3	4,4-DDT	ND		ug/L	0.1	0.03	1.0		
115-32-2	DICOFOL	ND		ug/L	1	-	1.0		
121-75-5	MALATHION	ND		ug/L	0.1	0.05	1.0		
298-00-0	METHYL PARATHION	ND		ug/L	0.5	0.1	1.0		
56-38-2	PARATHION-ETHYL	ND		ug/L	0.1	0.05	1.0		
732-11-6	PHOSMET	ND		ug/L	0.5	-	1.0		
43121-43-3	TRIADIMEFON	ND		ug/L	0.1	0.07	1.0		
51235-04-2	HEXAZINONE	ND		ug/L	0.1	0.05	1.0		

Result of: NA - indicates the compound was not analyzed.
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor.

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DATA REPORT

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

Reference Number:
Project: LocherHall-Wentland/HBDIC

Lab Number:
Field ID: L-3
Sample Description: Locher Well #3
Matrix: Drinking Water
Collect Date: 2/13/2008
Extraction Date: 2/21/2008
Extraction Method: 3535

Report Date: 3/10/2008
Date Analyzed: 2/22/2008
Analyst: CO
Peer Review: MVA
Analytical Method: 525.2

SOC for Walla Walla

CAS ID#	COMPOUNDS	RESULT	Flag	Units	PQL	MDL	D.F.	Batch	COMMENT
60-51-5	DIMETHOATE	ND		ug/L	0.5	0.03	1.0	WALLA_080221	
57837-19-1	METALAXYL	ND		ug/L	0.1	-	1.0		
15299-99-7	NAPROPAMIDE	ND		ug/L	0.1	0.05	1.0		
122-34-9	SIMAZINE	ND		ug/L	0.1	0.03	1.0		
86-86-2	1-NAPHTHALENEACETAMIDE	ND		ug/l	0.5	-	1.0		
333-41-5	DIAZINON	ND		ug/L	0.1	0.04	1.0		Unstable in Acidified Sample M
60168-88-9	FENARIMOL	ND		ug/L	0.1	0.03	1.0		
58-89-9	LINDANE (BHC - GAMMA)	ND		ug/L	0.1	0.03	1.0		
7786-34-7	MEVINPHOS	ND		ug/l	0.1	0.03	1.0		
86-50-0	AZINPHOS-METHYL	ND		ug/L	0.5	0.12	1.0		
2921-88-2	CHLORPYRIFOS	ND		ug/L	0.1	0.04	1.0		
72-54-8	4,4-DDD	ND		ug/L	0.1	0.02	1.0		
72-55-9	4,4-DDE	ND		ug/L	0.1	0.02	1.0		
50-29-3	4,4-DDT	ND		ug/L	0.1	0.03	1.0		
115-32-2	DICOFOL	ND		ug/L	1	-	1.0		
121-75-5	MALATHION	ND		ug/L	0.1	0.05	1.0		
298-00-0	METHYL PARATHION	ND		ug/L	0.5	0.1	1.0		
56-38-2	PARATHION-ETHYL	ND		ug/L	0.1	0.05	1.0		
732-11-6	PHOSMET	ND		ug/L	0.5	-	1.0		
43121-43-3	TRIADIMEFON	ND		ug/L	0.1	0.07	1.0		
51235-04-2	HEXAZINONE	ND		ug/L	0.1	0.05	1.0		

Result of: NA - indicates the compound was not analyzed.
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
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D.F. - Dilution Factor.

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CARBAMATES IN DRINKING WATER

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

Reference Number: 08-01833

Project: LocherHall-Wentland/HBDIC
Field ID: L-1
Sample Description: Locher Well #1
Sampled By: T Baker/L Lewis
Sample Date: 2/13/2008
Source Type:
Sampler Phone:

Lab Number: 04099
Report Date: 3/3/2008
Date Analyzed: 2/25/2008
Extraction Date: 531_080225
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

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CARBAMATES IN DRINKING WATER

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

Reference Number: 08-01833

Project: LocherHall-Wentland/HBDIC
Field ID: L-2
Sample Description: Locher Well #2
Sampled By: T Baker/L Lewis
Sample Date: 2/13/2008
Source Type:
Sampler Phone:

Lab Number: 04100
Report Date: 3/3/2008
Date Analyzed: 2/25/2008
Extraction Date: 531_080225
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

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CARBAMATES IN DRINKING WATER

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

Reference Number: 08-01833

Project: LocherHall-Wentland/HBDIC
Field ID: L-3
Sample Description: Locher Well #3
Sampled By: T Baker/L Lewis
Sample Date: 2/13/2008
Source Type:
Sampler Phone:

Lab Number: 04101
Report Date: 3/3/2008
Date Analyzed: 2/25/2008
Extraction Date: 531_080225
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	**ND**	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	**ND**	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	**ND**	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	**ND**	ug/L	1.0	0.83		
16752-77-5	METHOMYL	**ND**	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	**ND**	ug/L	1.0	1.0		
116-06-3	ALDICARB	**ND**	ug/L	1.0	0.88		
63-25-2	CARBARYL	**ND**	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	**ND**	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	**ND**	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
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J - Estimated value.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 08-01833
Report Date: 03/10/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier Type*	Comment
200.7-080218A	HARDNESS	72.3	69.5	mg/L	200.7	104	80-120	LFB	
508_080221	TETRACHLORO-M-XYLENE (SURR)	94		%	508.1		70-130	LFB	
515_080226	2,4 - D	2	2	ug/L	515.1	100	70-130	LFB	
	2,4 - DCAA (SURR)	99		%	515.1		70-130		
	2,4 DB	9.3	8	ug/L	515.1	116	70-130		
	2,4,5 - TP (SILVEX)	0.9	1	ug/L	515.1	90	70-130		
	2,4,5 T	0.94	1	ug/L	515.1	94	70-130		
	ACIFLUORFEN	0.91	1	ug/L	515.1	91	70-130		
	BENTAZON	2	2	ug/L	515.1	100	70-130		
	CHLORAMBEN	0.7	1	ug/L	515.1	70	70-130		
	DALAPON	8.2	13	ug/L	515.1	63	70-130		
	DICAMBA	0.84	1	ug/L	515.1	84	70-130		
	DICHLORPROP	2.8	3	ug/L	515.1	93	70-130		
	DINOSEB	1.8	2	ug/L	515.1	90	70-130		
	PENTACHLOROPHENOL	0.87	1	ug/L	515.1	87	70-130		
	PICLORAM	0.9	1	ug/L	515.1	90	70-130		
	TOTAL (DCPA & Metabolites)	1.2	1	ug/L	515.1	120	70-130		
525_080221	1,3-DIMETHYL-2-NITROBENZENE (Surr)	101		%	525.2		70-130	LFB	
	4,4-DDD	1.21	1	ug/L	525.2	121	70-130		
	4,4-DDE	1.17	1	ug/L	525.2	117	70-130		
	4,4-DDT	1.17	1	ug/L	525.2	117	70-130		
	ACENAPHTHYLENE	1.05	1	ug/L	525.2	105	70-130		
	ALACHLOR	2.24	2	ug/L	525.2	112	70-130		
	ALDRIN	0.94	1	ug/L	525.2	94	70-130		
	ANTHRACENE	0.87	1	ug/L	525.2	87	70-130		
	ATRAZINE	2.41	2	ug/L	525.2	121	70-130		
	BENZ(A)ANTHRACENE	1.11	1	ug/L	525.2	111	70-130		
	BENZO(A)PYRENE	0.98	1	ug/L	525.2	98	70-130		
	BENZO(B)FLUORANTHENE	1.16	1	ug/L	525.2	116	70-130		
	BENZO(G,H,I)PERYLENE	0.76	1	ug/L	525.2	76	70-130		
	BENZO(K)FLUORANTHENE	1.18	1	ug/L	525.2	118	70-130		

*Notation:

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

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 96225 | 360.671.0688 • 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 08-01833
Report Date: 03/10/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
525_080221	BENZYL BUTYL PHTHALATE	1.21	1	ug/L	525.2	121	70-130		LFB	
	BROMACIL	1.36	1	ug/L	525.2	136	70-130	HQ		
	BUTACHLOR	1.41	1	ug/L	525.2	141	70-130	HQ		
	CHLORDANE, TECHNICAL	1.09	1	ug/L	525.2	109	70-130			
	CHRYSENE	1.08	1	ug/L	525.2	108	70-130			
	CYANAZINE	0.99	1	ug/L	525.2	99	70-130			
	DI(ETHYLHEXYL)-ADIPATE	1.2	1	ug/L	525.2	120	70-130			
	DI(ETHYLHEXYL)-PHTHALATE	2.58	1	ug/L	525.2	258	70-130	B1		
	DIAZINON	3.57	3	ug/L	525.2	119	70-130			
	DIBENZO(A,H)ANTHRACENE	0.82	1	ug/L	525.2	82	70-130			
	DIELDRIN	1.09	1	ug/L	525.2	109	70-130			
	DIETHYL PHTHALATE	1.02	1	ug/L	525.2	102	70-130			
	DIMETHYL PHTHALATE	1.12	1	ug/L	525.2	112	70-130			
	DI-N-BUTYL PHTHALATE	1.17	1	ug/L	525.2	117	70-130			
	ENDRIN	1.24	1	ug/L	525.2	124	70-130			
	EPTC	1.09	1	ug/L	525.2	109	70-130			
	FLUORENE	1.13	1	ug/L	525.2	113	70-130			
	HEPTACHLOR	1.2	1	ug/L	525.2	120	70-130			
	HEPTACHLOR EPOXIDE	1.11	1	ug/L	525.2	111	70-130			
	HEXACHLOROBENZENE	1.09	1	ug/L	525.2	109	70-130			
	HEXACHLOROCYCLO-PENTADIENE	1.14	1	ug/L	525.2	114	70-130			
	INDENO(1,2,3-CD)PYRENE	0.82	1	ug/L	525.2	82	70-130			
	LINDANE (BHC - GAMMA)	1.13	1	ug/L	525.2	113	70-130			
	MALATHION	3.23	3	ug/L	525.2	108	70-130			
	METHOXYCHLOR	1.3	1	ug/L	525.2	130	70-130			
	METOLACHLOR	1.23	1	ug/L	525.2	123	70-130			
	METRIBUZIN	1.18	1	ug/L	525.2	118	70-130			
	PARATHION	4.33	3	ug/L	525.2	144	70-130	HQ		
	PENTACHLOROPHENOL	5.4	4	ug/L	525.2	135	70-130	HQ		
	PERYLENE-D12 (Surr)	92		%	525.2		70-130			
	PHENANTHRENE	1.04	1	ug/L	525.2	104	70-130			
	PROPACHLOR	1.18	1	ug/L	525.2	118	70-130			
	PYRENE	1.09	1	ug/L	525.2	109	70-130			
	PYRENE-D10 (Surr)	102		%	525.2		70-130			
	SIMAZINE	1.15	1	ug/L	525.2	115	70-130			
	TERBACIL	1.28	1	ug/L	525.2	128	70-130			
	TRIFLURALIN	1.24	1	ug/L	525.2	124	70-130			

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ANALYTICAL LABORATORIES

Burlington WA (Corporate Office) | 1620 S Walnut St - 98233 | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 98225 | 360.671.0688 • 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 08-01833
Report Date: 03/10/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
525_080221	TRIPHENYLPHOSPHATE (Surr)	107		%	525.2		70-130		LFB	
525X_080221	HEXAZINONE (Velpar)	1.2	1	ug/L	525.2	120	70-130		LFB	
531_080225	3-HYDROXYCARBOFURAN	10.2	10	ug/L	531.2	102	70-130		LFB	
	ALDICARB	9.1	10	ug/L	531.2	91	70-130			
	ALDICARB SULFONE	10.2	10	ug/L	531.2	102	70-130			
	ALDICARB SULFOXIDE	8.9	10	ug/L	531.2	89	70-130			
	CARBARYL	10	10	ug/L	531.2	100	70-130			
	CARBOFURAN	9.8	10	ug/L	531.2	98	70-130			
	METHIOCARB	9.2	10	ug/L	531.2	92	70-130			
	METHOMYL	10.1	10	ug/L	531.2	101	70-130			
	OXYMAL	10.8	10	ug/L	531.2	108	70-130			
	PROPOXUR (BAYGON)	10	10	ug/L	531.2	100	70-130			
531_080225	3-HYDROXYCARBOFURAN	4.4	5	ug/L	531.2	88	70-130		LFB	
	ALDICARB	4.6	5	ug/L	531.2	92	70-130			
	ALDICARB SULFONE	4.5	5	ug/L	531.2	90	70-130			
	ALDICARB SULFOXIDE	4.1	5	ug/L	531.2	82	70-130			
	CARBARYL	5.1	5	ug/L	531.2	102	70-130			
	CARBOFURAN	4.4	5	ug/L	531.2	88	70-130			
	METHIOCARB	4.5	5	ug/L	531.2	90	70-130			
	METHOMYL	4.9	5	ug/L	531.2	98	70-130			
	OXYMAL	5	5	ug/L	531.2	100	70-130			
	PROPOXUR (BAYGON)	4.5	5	ug/L	531.2	90	70-130			
549P_080220	PARAQUAT	22.11	20	ug/L	549.2	111	70-130		LFB	
COD_080215	CHEMICAL OXYGEN DEMAND	50	50	mg/L	SM5220 D	100	80-120		LFB	
OPHOS-080214A	ORTHO-PHOSPHATE	1.02	1.00	mg/L	SM4500-P F	102	70-130		LFB	

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 08-01833
Report Date: 03/10/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
WALLA_080221	AZINPHOS-METHYL	3	2	ug/L	525.2	150	70-130	HQ	LFB	
	CHLORPYRIFOS	3.4	3	ug/L	525.2	113	70-130			
	DIMETHOATE	1.8	2	ug/L	525.2	90	70-130			
	FENARIMOL	1.4	1	ug/L	525.2	140	70-130	HQ		
	METHYL PARATHION	2.6	2	ug/L	525.2	130	70-130			
	MEVINPHOS	4.5	3	ug/L	525.2	150	70-130	HQ		
	NAPROPAMIDE	1.2	1	ug/L	525.2	120	70-130			
	TRIADIMEFON	1.2	1	ug/L	525.2	120	70-130			

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 08-01833
Report Date: 03/10/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
200.7-080218A	HARDNESS	ND		mg/L	200.7		10.0000C		LRB	
COD_080215	CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		4.00000		LRB	
D080303A	BROMATE	ND		mg/L	300.1		0.00500		LRB	
D080306A	BROMATE	ND		mg/L	300.1		0.00500		LRB	
EC_080215	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.00000		LRB	
EC_080215	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.00000		LRB	
EC_080215	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.00000		LRB	
EC_080215	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.00000		LRB	
I080214A	CHLORIDE	ND		mg/L	300.0		0.10000		LRB	
	NITRATE-N	ND		mg/L	300.0		0.10000			
I080215	CHLORIDE	ND		mg/L	300.0		0.10000		LRB	
	NITRATE-N	ND		mg/L	300.0		0.10000			
OPHOS-080214A	ORTHO-PHOSPHATE	ND		mg/L	SM4500-P F		0.10000		LRB	
TDS_080218	TOTAL DISSOLVED SOLIDS	ND		mg/L	SM2540 C		10.0000C		LRB	
TDS_080218	TOTAL DISSOLVED SOLIDS	ND		mg/L	SM2540 C		10.0000C		LRB	
TDS_080218	TOTAL DISSOLVED SOLIDS	ND		mg/L	SM2540 C		10.0000C		LRB	
TURB_080214	TURBIDITY	ND		NTU	180.1		0.02000		LRB	

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 08-01833
Report Date: 03/10/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 08-01833
Report Date: 03/10/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
200.7-080218A	HARDNESS	ND		mg/L	200.7		0.82000		MB	
508_080221	AROCLOR 1016	ND		ug/L	508.1		0.02000		MB	
	AROCLOR 1221	ND		ug/L	508.1		0.12000			
	AROCLOR 1232	ND		ug/L	508.1		0.02000			
	AROCLOR 1242	ND		ug/L	508.1		0.02000			
	AROCLOR 1248	ND		ug/L	508.1		0.02000			
	AROCLOR 1254	ND		ug/L	508.1		0.02000			
	AROCLOR 1260	ND		ug/L	508.1		0.02000			
	TETRACHLORO-M-XYLENE (SURR)	100		%	508.1		0.00000			
515_080226	2,4 - D	ND		ug/L	515.1		0.05000		MB	
	2,4 - DCAA (SURR)	103		%	515.1					
	2,4 DB	ND		ug/L	515.1		0.25000			
	2,4,5 - TP (SILVEX)	ND		ug/L	515.1		0.10000			
	2,4,5 T	ND		ug/L	515.1		0.10000			
	ACIFLUORFEN	ND		ug/L	515.1		0.50000			
	BENTAZON	ND		ug/L	515.1		0.12000			
	CHLORAMBEN	ND		ug/L	515.1		0.20000			
	DALAPON	ND		ug/L	515.1		0.50000			
	DCPA (ACID METABOLITES)	ND		ug/L	515.1		0.10000			
	DICAMBA	ND		ug/L	515.1		0.05000			
	DICHLORPROP	ND		ug/L	515.1		0.12000			
	DINOSEB	ND		ug/L	515.1		0.10000			
	PENTACHLOROPHENOL	ND		ug/L	515.1		0.02000			
	PICLORAM	ND		ug/L	515.1		0.05000			
	TOTAL (DCPA & Metabolites)	ND		ug/L	515.1		0.02000			
525_080221	1,3-DIMETHYL-2-NITROBENZENE (Surr)	93		%	525.2				MB	
	4,4-DDD	ND		ug/L	525.2		0.05000			
	4,4-DDE	ND		ug/L	525.2		0.05000			
	4,4-DDT	ND		ug/L	525.2		0.05000			
	ACENAPHTHENE	ND		ug/L	525.2		0.05000			
	ALACHLOR	ND		ug/L	525.2		0.02000			

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 08-01833
Report Date: 03/10/08

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525_080221	ALDRIN	ND		ug/L	525.2		0.05000		MB	
	ANTHRACENE	ND		ug/L	525.2		0.05000			
	ATRAZINE	ND		ug/L	525.2		0.02000			
	BENZ(A)ANTHRACENE	ND		ug/L	525.2		0.02000			
	BENZO(A)PYRENE	ND		ug/L	525.2		0.02000			
	BENZO(B)FLUORANTHENE	ND		ug/L	525.2		0.05000			
	BENZO(G,H,I)PERYLENE	ND		ug/L	525.2		0.05000			
	BENZO(K)FLUORANTHENE	ND		ug/L	525.2		0.05000			
	BENZYL BUTYL PHTHALATE	ND		ug/L	525.2		0.60000			
	BROMACIL	ND		ug/L	525.2		0.05000			
	BUTACHLOR	ND		ug/L	525.2		0.10000			
	CHLORDANE, TECHNICAL	ND		ug/L	525.2		0.02000			
	CHRYSENE	ND		ug/L	525.2		0.05000			
	CYANAZINE	ND		ug/L	525.2		0.05000			
	DI(ETHYLHEXYL)-ADIPATE	ND		ug/L	525.2		0.02000			
	DI(ETHYLHEXYL)-PHTHALATE	2.5		ug/L	525.2		0.60000			
	DIAZINON	ND		ug/L	525.2		0.05000			
	DIBENZO(A,H)ANTHRACENE	ND		ug/L	525.2		0.05000			
	DIELDRIN	ND		ug/L	525.2		0.05000			
	DIETHYL PHTHALATE	ND		ug/L	525.2		0.60000			
	DIMETHYL PHTHALATE	ND		ug/L	525.2		0.60000			
	DI-N-BUTYL PHTHALATE	ND		ug/L	525.2		0.60000			
	ENDRIN	ND		ug/L	525.2		0.02000			
	EPTC	ND		ug/L	525.2		0.07000			
	FLUORANTHENE	ND		ug/L	525.2		0.05000			
	FLUORENE	ND		ug/L	525.2		0.05000			
	HEPTACHLOR	ND		ug/L	525.2		0.02000			
	HEPTACHLOR EPOXIDE	ND		ug/L	525.2		0.02000			
	HEXACHLOROBENZENE	ND		ug/L	525.2		0.02000			
	HEXACHLOROCYCLO-PENTADIENE	ND		ug/L	525.2		0.02000			
	INDENO(1,2,3-CD)PYRENE	ND		ug/L	525.2		0.05000			
	LINDANE (BHC - GAMMA)	ND		ug/L	525.2		0.02000			
	MALATHION	ND		ug/L	525.2		0.05000			
	METHOXYCHLOR	ND		ug/L	525.2		0.02000			
	METOLACHLOR	ND		ug/L	525.2		0.25000			
	METRIBUZIN	ND		ug/L	525.2		0.05000			
	NAPTHALENE	ND		ug/L	525.2		0.02000			

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 08-01833
Report Date: 03/10/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier Type*	Comment
525_080221	PARATHION	ND		ug/L	525.2		0.05000	MB	
	PENTACHLOROPHENOL	ND		ug/L	525.2		0.04000		
	PERYLENE-D12 (Surr)	88		%	525.2				
	PHENANTHRENE	ND		ug/L	525.2		0.05000		
	PROPACHLOR	ND		ug/L	525.2		0.05000		
	PYRENE	ND		ug/L	525.2		0.05000		
	PYRENE-D10 (Surr)	99		%	525.2				
	SIMAZINE	ND		ug/L	525.2		0.02000		
	TERBACIL	ND		ug/L	525.2		0.05000		
	TRIFLURALIN	ND		ug/L	525.2		0.05000		
	TRIPHENYLPHOSPHATE (Surr)	106		%	525.2				
525X_080221	HEXAZINONE (Velpar)	ND		ug/L	525.2		0.02000	MB	
531_080225	3-HYDROXYCARBOFURAN	ND		ug/L	531.2		0.50000	MB	
	ALDICARB	ND		ug/L	531.2		0.25000		
	ALDICARB SULFONE	ND		ug/L	531.2		0.40000		
	ALDICARB SULFOXIDE	ND		ug/L	531.2		0.25000		
	CARBARYL	ND		ug/L	531.2		0.50000		
	CARBOFURAN	ND		ug/L	531.2		0.45000		
	METHIOCARB	ND		ug/L	531.2		1.00000		
	METHOMYL	ND		ug/L	531.2		0.25000		
	OXYMAL	ND		ug/L	531.2		1.00000		
	PROPOXUR (BAYGON)	ND		ug/L	531.2		0.25000		
549P_080220	PARAQUAT	ND		ug/L	549.2		0.50000	MB	
OPHOS-080214A	ORTHO-PHOSPHATE	ND		mg/L	SM4500-P F		0.10000	MB	
WALLA_080221	AZINPHOS-METHYL	ND		ug/L	525.2		0.00000	MB	
	CHLORPYRIFOS	ND		ug/L	525.2		0.00000		
	DICOFOL	ND		ug/L	525.2		0.00000		

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 08-01833
Report Date: 03/10/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
WALLA_080221	DIMETHOATE	ND		ug/L	525.2		0.00000		MB	
	FENARIMOL	ND		ug/L	525.2		0.00000			
	HEXAZINONE	ND		ug/L	525.2		0.00000			
	MALATHION	ND		ug/L	525.2		0.05000			
	METALAXYL	ND		ug/L	525.2		0.10000			
	METHYL PARATHION	ND		ug/L	525.2		0.00000			
	MEVINPHOS	ND		ug/L	525.2		0.00000			
	NAPROPAMIDE	ND		ug/L	525.2		0.00000			
	PARATHION-ETHYL	ND		ug/L	525.2		0.05000			
	PHOSMET	ND		ug/L	525.2		0.10000			
	TRIADIMEFON	ND		ug/L	525.2		0.00000			

*Notation:

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

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

ANALYTICAL LABORATORIES

Burlington WA (Corporate Office) | 1620 S Walnut St - 98233 | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 98225 | 360.671.0688 • 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 08-01833
Report Date: 03/10/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
200.7-080218A	HARDNESS	134	132.3	mg/L	200.7	101	80-120		QCS	
COD_080215	CHEMICAL OXYGEN DEMAND	63	66	mg/L	SM5220 D	95	80-120		QCS	
D080303A	BROMATE	0.0178	0.0184	mg/L	300.1	97	75-125		QCS	
D080306A	BROMATE	0.018	0.0184	mg/L	300.1	98	75-125		QCS	
EC_080215	ELECTRICAL CONDUCTIVITY	168	169	uS/cm	SM2510 B	99	80-120		QCS	
EC_080215	ELECTRICAL CONDUCTIVITY	170	169	uS/cm	SM2510 B	101	80-120		QCS	
EC_080215	ELECTRICAL CONDUCTIVITY	169	169	uS/cm	SM2510 B	100	80-120		QCS	
EC_080215	ELECTRICAL CONDUCTIVITY	170	169	uS/cm	SM2510 B	101	80-120		QCS	
I080214A	CHLORIDE	30	30.0	mg/L	300.0	100	80-120		QCS	
	NITRATE-N	2.47	2.50	mg/L	300.0	99	80-120			
I080215	CHLORIDE	31	30.0	mg/L	300.0	103	80-120		QCS	
	NITRATE-N	2.52	2.50	mg/L	300.0	101	80-120			
OPHOS-080214A	ORTHO-PHOSPHATE	0.48	0.48	mg/L	SM4500-P F	100	70-130		QCS	
TDS_080218	TOTAL DISSOLVED SOLIDS	492	500	mg/L	SM2540 C	98	80-120		QCS	
TDS_080218	TOTAL DISSOLVED SOLIDS	506	500	mg/L	SM2540 C	101	80-120		QCS	
TDS_080218	TOTAL DISSOLVED SOLIDS	522	500	mg/L	SM2540 C	104	80-120		QCS	
TURB_080214	TURBIDITY	1.05	1.00	NTU	180.1	105	70-130		QCS	

*Notation:

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 08-01833
Report Date: 03/10/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment

*Notation:

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

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QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

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QUALITY CONTROL REPORT

Duplicate and Matrix Spike/Matrix Spike Duplicate Report

Reference Number: 08-01833

Report Date: 3/10/2008

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
200.7-080218A									
	4310	HARDNESS	4.39	4.42	mg CaCO3/L	**0.7**	0-45	DUP	
525_080221									
	4099	BROMACIL	0.32	0.39	ug/L	**19.7**	0-45	DUP	
	4099	1,3-DIMETHYL-2-NITROBENZENE (Surr	98	96	%	**2.1**	0-45	DUP	
	4099	PYRENE-D10 (Surr)	93	105	%	**12.1**	0-45	DUP	
	4099	PERYLENE-D12 (Surr)	87	98	%	**11.9**	0-45	DUP	
	4099	TRIPHENYLPHOSPHATE (Surr)	105	112	%	**6.5**	0-45	DUP	
	4101	1,3-DIMETHYL-2-NITROBENZENE (Surr	97	104	%	**7.0**	0-45	DUP	
	4101	PYRENE-D10 (Surr)	105	89	%	**16.5**	0-45	DUP	
	4101	PERYLENE-D12 (Surr)	88	83	%	**5.8**	0-45	DUP	
	4101	TRIPHENYLPHOSPHATE (Surr)	106	101	%	**4.8**	0-45	DUP	
COD_080215									
	4105	CHEMICAL OXYGEN DEMAND	17	16	mg/L	**6.1**	0-45	DUP	
D080303A									
	3610	BROMATE	0.007	0.007	mg/L	**0.0**	0-30	DUP	
D080306A									
EC_080215									
	3974	ELECTRICAL CONDUCTIVITY	336	337	uS/cm	**0.3**	0-45	DUP	
	4208	ELECTRICAL CONDUCTIVITY	494	493	uS/cm	**0.2**	0-45	DUP	
	4246	ELECTRICAL CONDUCTIVITY	586	586	uS/cm	**0.0**	0-45	DUP	
I080214A									
	4196	CHLORIDE	0.2	0.3	mg/L	**40.0**	0-45	DUP	
	4209	NITRATE-N	1.21	1.22	mg/L	**0.8**	0-45	DUP	
	4209	CHLORIDE	30	30	mg/L	**0.0**	0-45	DUP	
	4246	NITRATE-N	0.14	0.15	mg/L	**6.9**	0-45	DUP	
	4246	CHLORIDE	34	34	mg/L	**0.0**	0-45	DUP	

%RPD = Relative Percent Difference

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Only Duplicate sample with detections are listed in this report

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
I080215									
	4196	CHLORIDE	0.3	0.3	mg/L	**0.0**	0-45	DUP	
	4249	CHLORIDE	19.3	19	mg/L	**1.6**	0-45	DUP	
OPHOS-080214A									
	4105	ORTHO-PHOSPHATE	0.31	0.31	mg/L	**0.0**	0-50	DUP	
PH_080214									
	4102	HYDROGEN ION (pH)	6.67	6.60	pH Units	**1.1**	0-45	DUP	
	4105	HYDROGEN ION (pH)	7.64	7.62	pH Units	**0.3**	0-45	DUP	
TDS_080218									
	4102	TOTAL DISSOLVED SOLIDS	137	138	mg/L	**0.7**	0-45	DUP	
	4252	TOTAL DISSOLVED SOLIDS	268	272	mg/L	**1.5**	0-45	DUP	
TURB_080214									
	4196	TURBIDITY	0.12	0.12	NTU	**0.0**	0-50	DUP	

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Reference Number: 08-01833
Report Date: 3/10/2008

ANALYTICAL LABORATORIES

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier		Comments
200.7-080218A															
	4196	HARDNESS	ND	73.6	73.6	69.5	mg CaCO3/L	106	106	80-120	0.0	0-60		LFM	
	4310	HARDNESS	4.39	76.8	76.5	69.5	mg CaCO3/L	104	104	80-120	0.4	0-60		LFM	
515_080226															
	5142	2,4 - D	ND	1.8	1.7	2	ug/L	90	85	65-135	5.7	0-60		LFM	
	5142	2,4,5 - TP (SILVEX)	ND	0.85	0.81	1	ug/L	85	81	65-135	4.8	0-60		LFM	
	5142	PENTACHLOROPHENOL	ND	0.88	0.81	1	ug/L	88	81	65-135	8.3	0-60		LFM	
	5142	DALAPON	ND	8.1	8.9	13	ug/L	62	68	65-135	9.4	0-60		LFM	
	5142	DINOSEB	ND	1.7	1.5	2	ug/L	85	75	65-135	12.5	0-60		LFM	
	5142	PICLORAM	ND	0.85	0.79	1	ug/L	85	79	65-135	7.3	0-60		LFM	
	5142	DICAMBA	ND	0.8	0.78	1	ug/L	80	78	65-135	2.5	0-60		LFM	
	5142	TOTAL (DCPA & Metabolites)	ND	1.15	1.1	1	ug/L	115	110	65-135	4.4	0-60		LFM	
	5142	2,4 DB	ND	9.1	8.1	8	ug/L	114	101	65-135	11.6	0-60		LFM	
	5142	2,4,5 T	ND	0.87	0.5	1	ug/L	87	50	65-135	54.0	0-60		LFM	
	5142	BENTAZON	ND	2	1.7	2	ug/L	100	85	65-135	16.2	0-60		LFM	
	5142	DICHLORPROP	ND	2.8	2.6	3	ug/L	93	87	65-135	7.4	0-60		LFM	
	5142	ACIFLUORFEN	ND	0.81	0.82	1	ug/L	81	82	65-135	1.2	0-60		LFM	
	5142	CHLORAMBEN	ND	0.7	0.7	1	ug/L	70	70	65-135	0.0	0-50		LFM	
	5142	2,4 - DCAA (SURR)	107	103	98		%			70-130	NA	0-60		LFM	
525_080221															
	4103	ENDRIN	ND	1.1		1	ug/L	110	NA	70-130	NA	0-60		LFM	
	4103	LINDANE (BHC - GAMMA)	ND	0.97		1	ug/L	97	NA	70-130	NA	0-60		LFM	
	4103	METHOXYCHLOR	ND	1.27		1	ug/L	127	NA	70-130	NA	0-60		LFM	
	4103	ALACHLOR	ND	2.07		2	ug/L	104	NA	70-130	NA	0-60		LFM	
	4103	ATRAZINE	ND	2.46		2	ug/L	123	NA	70-130	NA	0-60		LFM	
	4103	BENZO(A)PYRENE	ND	0		1	ug/L	0	NA	70-130	NA	0-60	ME	LFM	
	4103	CHLORDANE, TECHNICAL	ND	0.94		1	ug/L	94	NA	70-130	NA	0-60		LFM	
	4103	DI(ETHYLHEXYL)-ADIPATE	ND	1.16		1	ug/L	116	NA	70-130	NA	0-60		LFM	
	4103	DI(ETHYLHEXYL)-PHTHALATE	ND	1.37		1	ug/L	137	NA	70-130	NA	0-60	B3	LFM	Sample 0.3 ug/L
	4103	HEPTACHLOR	ND	1.07		1	ug/L	107	NA	70-130	NA	0-60		LFM	
	4103	HEPTACHLOR EPOXIDE	ND	0.94		1	ug/L	94	NA	70-130	NA	0-50		LFM	
	4103	HEXACHLOROBENZENE	ND	1.02		1	ug/L	102	NA	70-130	NA	0-60		LFM	
	4103	HEXACHLOROCYCLO-PENTADIENE	ND	1.08		1	ug/L	108	NA	70-130	NA	0-60		LFM	
	4103	SIMAZINE	ND	1.19		1	ug/L	119	NA	70-130	NA	0-60		LFM	
	4103	PENTACHLOROPHENOL	ND	4.03		4	ug/L	101	NA	70-130	NA	0-50		LFM	
	4103	ALDRIN	ND	0.91		1	ug/L	91	NA	70-130	NA	0-60		LFM	

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Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Comments
	4103	BUTACHLOR	ND	1.22		1	ug/L	122	NA	70-130	NA	0-60		LFM
	4103	DIELDRIN	ND	1.02		1	ug/L	102	NA	70-130	NA	0-60		LFM
	4103	METOLACHLOR	ND	1.11		1	ug/L	111	NA	70-130	NA	0-60		LFM
	4103	METRIBUZIN	ND	1.05		1	ug/L	105	NA	70-130	NA	0-60		LFM
	4103	PROPACHLOR	ND	1.22		1	ug/L	122	NA	70-130	NA	0-60		LFM
	4103	BROMACIL	ND	1.2		1	ug/L	120	NA	70-130	NA	0-60		LFM
	4103	TERBACIL	ND	1.22		1	ug/L	122	NA	70-130	NA	0-60		LFM
	4103	DIAZINON	ND	1.88		3	ug/L	63	NA	70-130	NA	0-60	QA	LFM
	4103	SIMAZINE	ND	1.19		1	ug/L	119	NA	70-130	NA	0-60		LFM
	4103	EPTC	ND	1.1		1	ug/L	110	NA	70-130	NA	0-60		LFM
	4103	DIAZINON	ND	1.88		3	ug/L	63	NA	70-130	NA	0-60	QA	LFM
	4103	4,4-DDD	ND	1.04		1	ug/L	104	NA	70-130	NA	0-60		LFM
	4103	4,4-DDE	ND	1.02		1	ug/L	102	NA	70-130	NA	0-60		LFM
	4103	LINDANE (BHC - GAMMA)	ND	0.97		1	ug/L	97	NA	70-130	NA	0-60		LFM
	4103	4,4-DDT	ND	1.09		1	ug/L	109	NA	70-130	NA	0-60		LFM
	4103	CYANAZINE	ND	0.9		1	ug/L	90	NA	70-130	NA	0-60		LFM
	4103	MALATHION	ND	2.93		3	ug/L	98	NA	70-130	NA	0-60		LFM
	4103	PARATHION	ND	3.76		3	ug/L	125	NA	70-130	NA	0-60		LFM
	4103	TRIFLURALIN	ND	1.18		1	ug/L	118	NA	70-130	NA	0-60		LFM
	4103	4,4-DDD	ND	1.04		1	ug/L	104	NA	70-130	NA	0-60		LFM
	4103	4,4-DDE	ND	1.02		1	ug/L	102	NA	70-130	NA	0-60		LFM
	4103	4,4-DDT	ND	1.09		1	ug/L	109	NA	70-130	NA	0-60		LFM
	4103	MALATHION	ND	2.93		3	ug/L	98	NA	70-130	NA	0-60		LFM
	4103	PARATHION-ETHYL	ND	3.76		3	ug/L	125	NA	70-130	NA	0-60		LFM
	4103	FLUORENE	ND	1.19		1	ug/L	119	NA	70-130	NA	0-60		LFM
	4103	ACENAPHTHYLENE	ND	0.78		1	ug/L	78	NA	70-130	NA	0-60		LFM
	4103	ANTHRACENE	ND	0		1	ug/L	0	NA	70-130	NA	0-60		LFM
	4103	BENZ(A)ANTHRACENE	ND	0.1		1	ug/L	10	NA	70-130	NA	0-60	ME	LFM
	4103	BENZO(B)FLUORANTHENE	ND	1.18		1	ug/L	118	NA	70-130	NA	0-60		LFM
	4103	BENZO(K)FLUORANTHENE	ND	0.98		1	ug/L	98	NA	70-130	NA	0-60		LFM
	4103	CHRYSENE	ND	0.99		1	ug/L	99	NA	70-130	NA	0-60		LFM
	4103	DIBENZO(A,H)ANTHRACENE	ND	0.94		1	ug/L	94	NA	70-130	NA	0-60		LFM
	4103	INDENO(1,2,3-CD)PYRENE	ND	1.07		1	ug/L	107	NA	70-130	NA	0-60		LFM
	4103	PHENANTHRENE	ND	0.97		1	ug/L	97	NA	70-130	NA	0-60		LFM
	4103	PYRENE	ND	0.7		1	ug/L	70	NA	70-130	NA	0-60		LFM
	4103	BENZYL BUTYL PHTHALATE	ND	1.11		1	ug/L	111	NA	70-130	NA	0-60		LFM

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Reference Number: 08-01833
Report Date: 3/10/2008

ANALYTICAL LABORATORIES

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Comments
	4103	DI-N-BUTYL PHTHALATE	ND	1.1		1	ug/L	110	NA	70-130	NA	0-60		LFM
	4103	DIETHYL PHTHALATE	ND	1.2		1	ug/L	120	NA	70-130	NA	0-60		LFM
	4103	DIMETHYL PHTHALATE	ND	1.14		1	ug/L	114	NA	70-130	NA	0-60		LFM
	4103	1,3-DIMETHYL-2-NITROBENZENE (Surr	99	100			%		NA	70-130	NA	0-60		LFM
	4103	PYRENE-D10 (Surr)	95	77			%		NA	70-130	NA	0-60		LFM
	4103	PERYLENE-D12 (Surr)	90	82			%		NA	70-130	NA	0-60		LFM
	4103	TRIPHENYLPHOSPHATE (Surr)	103	105			%		NA	70-130	NA	0-60		LFM
525X_080221														
	4103	HEXAZINONE	ND	1.23		1	ug/L	123	NA	70-130	NA	0-50		LFM
	4103	HEXAZINONE (Velpar)	ND	1.23		1	ug/L	123	NA	70-130	NA	0-60		LFM
531_080225														
	4102	OXYMAL	ND	9.3	10.8	10	ug/L	93	108	70-130	14.9	0-50		LFM
	4102	CARBOFURAN	ND	8.5	9.7	10	ug/L	85	97	70-130	13.2	0-50		LFM
	4102	ALDICARB SULFOXIDE	ND	7.5	8.5	10	ug/L	75	85	70-130	12.5	0-50		LFM
	4102	ALDICARB SULFONE	ND	8.4	9.4	10	ug/L	84	94	70-130	11.2	0-50		LFM
	4102	METHOMYL	ND	9.2	10.8	10	ug/L	92	108	70-130	16.0	0-50		LFM
	4102	3-HYDROXYCARBOFURAN	ND	9.3	10.6	10	ug/L	93	106	70-130	13.1	0-50		LFM
	4102	ALDICARB	ND	8.8	9.9	10	ug/L	88	99	70-130	11.8	0-50		LFM
	4102	CARBARYL	ND	9.1	10.6	10	ug/L	91	106	70-130	15.2	0-50		LFM
	4102	PROPOXUR (BAYGON)	ND	8.7	10	10	ug/L	87	100	70-130	13.9	0-50		LFM
	4102	METHIOCARB	ND	8.4	9.8	10	ug/L	84	98	70-130	15.4	0-50		LFM
	4638	OXYMAL	ND	9.8		10	ug/L	98	NA	70-130	NA	0-50		LFM
	4638	CARBOFURAN	ND	8.9		10	ug/L	89	NA	70-130	NA	0-50		LFM
	4638	ALDICARB SULFOXIDE	ND	7.8		10	ug/L	78	NA	70-130	NA	0-50		LFM
	4638	ALDICARB SULFONE	ND	8.5		10	ug/L	85	NA	70-130	NA	0-50		LFM
	4638	METHOMYL	ND	10		10	ug/L	100	NA	70-130	NA	0-50		LFM
	4638	3-HYDROXYCARBOFURAN	ND	10		10	ug/L	100	NA	70-130	NA	0-50		LFM
	4638	ALDICARB	ND	9.2		10	ug/L	92	NA	70-130	NA	0-50		LFM
	4638	CARBARYL	ND	9.3		10	ug/L	93	NA	70-130	NA	0-50		LFM
	4638	PROPOXUR (BAYGON)	ND	9.2		10	ug/L	92	NA	70-130	NA	0-50		LFM
	4638	METHIOCARB	ND	8.4		10	ug/L	84	NA	70-130	NA	0-50		LFM
549P_080220														
	4104	PARAQUAT		0.4		2	ug/L	20	NA	70-130	NA	0-50	ME	LFM
COD_080215														
	4099	CHEMICAL OXYGEN DEMAND	7	55	58	50	mg/L	96	98	80-120	2.1	0-60		LFM
	4105	CHEMICAL OXYGEN DEMAND	17	65	66	50	mg/L	96	98	80-120	2.1	0-60		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 a 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

Reference Number: 08-01833
Report Date: 3/10/2008

ANALYTICAL LABORATORIES

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier		Comments
D080303A															
	3662	BROMATE	ND	0.010		0.010	mg/L	**100**	**NA**	75-125	**NA**	0-60		LFM	
	4638	BROMATE	ND	0.010		0.010	mg/L	**100**	**NA**	75-125	**NA**	0-60		LFM	
D080306A															
	4196	BROMATE	ND	0.010		0.010	mg/L	**100**	**NA**	75-125	**NA**	0-60		LFM	
I080214A															
	4196	NITRATE-N	ND	1.01		1.00	mg/L	**101**	**NA**	80-120	**NA**	0-60		LFM	
	4196	CHLORIDE	0.2	1.3		1.00	mg/L	**110**	**NA**	80-120	**NA**	0-60		LFM	
	4209	NITRATE-N	1.21	2.21		1.00	mg/L	**100**	**NA**	80-120	**NA**	0-60		LFM	
	4246	NITRATE-N	0.14	1.14		1.00	mg/L	**100**	**NA**	80-120	**NA**	0-60		LFM	
I080215															
	4196	NITRATE-N	ND	1.06		1.00	mg/L	**106**	**NA**	80-120	**NA**	0-60		LFM	
	4196	CHLORIDE	0.3	1.4		1.00	mg/L	**110**	**NA**	80-120	**NA**	0-60		LFM	
	4249	NITRATE-N	ND	1.38		1.00	mg/L	**138**	**NA**	80-120	**NA**	0-60	M	LFM	Chlorinated
	4249	CHLORIDE	19.3	20.6		1.00	mg/L	**130**	**NA**	80-120	**NA**	0-60	S	LFM	
OPHOS-080214A															
	4105	ORTHO-PHOSPHATE	0.31	1.33	1.32	1.00	mg/L	**102**	**101**	70-130	**1.0**	0-50		LFM	
WALLA_080221															
	4103	DIMETHOATE	ND	1.5		2	ug/L	**75**	**NA**	70-130	**NA**	0-50		LFM	
	4103	NAPROPAMIDE	ND	1		1	ug/L	**100**	**NA**	70-130	**NA**	0-50		LFM	
	4103	FENARIMOL	ND	1.3		1	ug/L	**130**	**NA**	70-130	**NA**	0-50		LFM	
	4103	MEVINPHOS	ND	4.5		3	ug/L	**150**	**NA**	70-130	**NA**	0-50	HQ	LFM	
	4103	AZINPHOS-METHYL	ND	2.75		2	ug/L	**138**	**NA**	70-130	**NA**	0-50	HQ	LFM	
	4103	CHLORPYRIFOS	ND	3		3	ug/L	**100**	**NA**	70-130	**NA**	0-50		LFM	
	4103	METHYL PARATHION	ND	2.3		2	ug/L	**115**	**NA**	70-130	**NA**	0-50		LFM	
	4103	TRIADIMEFON	ND	1.1		1	ug/L	**110**	**NA**	70-130	**NA**	0-50		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 a 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

Qualifier Definitions

Reference Number: 08-01833
Report Date: 03/10/08

Qualifier	Definition
B1	The source of the contamination has been identified as a contaminate in the lab purified water. Data for this compound is suspect if reported.
B3	The recovery of the Matrix Spike is outside the upper limit due to a sample amount that is less than the reporting limit.
D2	Data is "suspect" the matrix spike of this sample is lower than expected. The fortified blank is within acceptance limits.
HQ	High QCS recovery due to increased detector response of the sample extract. The continuing calibration checks are within acceptance limits.
M	Matrix induced bias assumed.
ME	Matrix spike shows a possible matrix induced bias. The LFB was within acceptance limits, results for this compound are suspect.
QA	Acceptance Limits do not apply. This method is not the primary method for qualitative analysis.
S	Spiking amount was lower than the 5:1 spike to background (sample amount) basis for performance criteria. The reported criteria does not apply due to increased errors in measurement of both sample and spike concentration.

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

ANALYTICAL LABORATORIES

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 08-01833
Report Date: 03/10/08

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
508_080221						
4099	TETRACHLORO-M-XYLENE (SURR)	101		%	508.1	Acceptance Limits 70%-130%
525_080221						
4099	1,3-DIMETHYL-2-NITROBENZENE (Surr)	98		%	525.2	Acceptance Range is 70% to 130%
	PYRENE-D10 (Surr)	93		%		Acceptance Range is 70% to 130%
	PERYLENE-D12 (Surr)	87		%		Acceptance Range is 70% to 130%
	TRIPHENYLPHOSPHATE (Surr)	105		%		Acceptance Range is 70% to 130%
515_080226						
4099	2,4 - DCAA (SURR)	99		%	515.1	Acceptance Range is 70 - 130%
508_080221						
4100	TETRACHLORO-M-XYLENE (SURR)	96		%	508.1	Acceptance Limits 70%-130%
525_080221						
4100	1,3-DIMETHYL-2-NITROBENZENE (Surr)	104		%	525.2	Acceptance Range is 70% to 130%
	PYRENE-D10 (Surr)	82		%		Acceptance Range is 70% to 130%
	PERYLENE-D12 (Surr)	86		%		Acceptance Range is 70% to 130%
	TRIPHENYLPHOSPHATE (Surr)	104		%		Acceptance Range is 70% to 130%
515_080226						
4100	2,4 - DCAA (SURR)	103		%	515.1	Acceptance Range is 70 - 130%
508_080221						
4101	TETRACHLORO-M-XYLENE (SURR)	97		%	508.1	Acceptance Limits 70%-130%
525_080221						
4101	1,3-DIMETHYL-2-NITROBENZENE (Surr)	97		%	525.2	Acceptance Range is 70% to 130%
	PYRENE-D10 (Surr)	105		%		Acceptance Range is 70% to 130%
	PERYLENE-D12 (Surr)	88		%		Acceptance Range is 70% to 130%
	TRIPHENYLPHOSPHATE (Surr)	106		%		Acceptance Range is 70% to 130%
515_080226						
4101	2,4 - DCAA (SURR)	94		%	515.1	Acceptance Range is 70 - 130%
525_080221						
4102	1,3-DIMETHYL-2-NITROBENZENE (Surr)	99		%	525.2	Acceptance Range is 70% to 130%
	PYRENE-D10 (Surr)	97		%		Acceptance Range is 70% to 130%
	PERYLENE-D12 (Surr)	93		%		Acceptance Range is 70% to 130%
	TRIPHENYLPHOSPHATE (Surr)	105		%		Acceptance Range is 70% to 130%
515_080226						
4102	2,4 - DCAA (SURR)	108		%	515.1	Acceptance Range is 70 - 130%
525_080221						
4103	1,3-DIMETHYL-2-NITROBENZENE (Surr)	99		%	525.2	Acceptance Range is 70% to 130%
	PYRENE-D10 (Surr)	95		%		Acceptance Range is 70% to 130%
	PERYLENE-D12 (Surr)	90		%		Acceptance Range is 70% to 130%
	TRIPHENYLPHOSPHATE (Surr)	103		%		Acceptance Range is 70% to 130%
515_080226						
4103	2,4 - DCAA (SURR)	110		%	515.1	Acceptance Range is 70 - 130%
525_080221						
4104	1,3-DIMETHYL-2-NITROBENZENE (Surr)	98		%	525.2	Acceptance Range is 70% to 130%
	PYRENE-D10 (Surr)	97		%		Acceptance Range is 70% to 130%
	PERYLENE-D12 (Surr)	91		%		Acceptance Range is 70% to 130%
	TRIPHENYLPHOSPHATE (Surr)	104		%		Acceptance Range is 70% to 130%
515_080226						

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

ANALYTICAL LABORATORIES

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 08-01833
Report Date: 03/10/08

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
4104	2,4 - DCAA (SURR)	101		%	515.1	Acceptance Range is 70 - 130%
25_080221						
4105	1,3-DIMETHYL-2-NITROBENZENE (Surr)	94		%	525.2	Acceptance Range is 70% to 130%
	PYRENE-D10 (Surr)	105		%		Acceptance Range is 70% to 130%
	PERYLENE-D12 (Surr)	95		%		Acceptance Range is 70% to 130%
	TRIPHENYLPHOSPHATE (Surr)	102		%		Acceptance Range is 70% to 130%
15_080226						
4105	2,4 - DCAA (SURR)	102		%	515.1	Acceptance Range is 70 - 130%

'Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

4,539

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

4099 - 4105

ANALYTICAL LABORATORIES
1620 S. Walnut St.
Burlington, WA 98233
1.800.755.9295

805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

eport to:	Walla Walla Basin Watershed Cour	Bill to:	Walla Walla Basin Watershed Counc
hip Address:	810 S Main Street	Address:	810 S Main Street
ity:	Milton-Freewa St: OR Zip: 97862	City:	Milton-Freewa St: OR Zip: 97862
ttn:	Bob Bower	Phone:	FAX:
hone:	541.938-2170 FAX:	P.O.#:	Attn:
mail:	bob.bower@wwwbwc.org	☐ Visa ☐ M/C ☐ A/E	Expires /
roject	Locher / Hall-Wentland / HBDC	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.
- 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)
- ☐ Emergency (Phone Call Req.)

Analyses Requested

CO004539

	Field ID	Location	Grab/ Comp.	Matrix	Date	Time	Nitrate	TDS, Cl, O-phos, pH, Turb, EC	Hardness	COD	Bromide	525 (Herbicides) SOC Pkg 515.3	549 Paraquat		Number of Containers	Special Instructions Conditions on Receipt
1	L-1	Locher Well #1	/	/	2/13/08	8:10	☒	☒	☒	☒	☒	☐	☐	☐	8	✓
2	L-2	Locher well #2	/	/	"	2:40	☒	☒	☒	☒	☒	☐	☐	☐	8	✓
3	L-3	Locher Well #3	/	/		9:14	☒	☒	☒	☒	☒	☒	☒	☐	11	✓
4	HW-1	Hall-Wentland OBS #1	/	/		10:10	☒	☒	☒	☒	☒	☒	☒	☐	11	✓
5	HW-2	Hall Wentland OBS #2	/	/		10:35	☒	☒	☒	☒	☒	☒	☒	☐	11	✓
6	HW-3	Hall-Wentland OBS #3	/	/		9:45	☒	☒	☒	☒	☒	☒	☒	☐	11	✓
7	HW-Source	Hall-Wentland Source	/	/	↓	11:05	☒	☒	☒	☒	☒	☒	☒	☐		
8							☐	☐	☐	☐	☐	☐	☐	☐		
9							☐	☐	☐	☐	☐	☐	☐	☐		
10							☐	☐	☐	☐	☐	☐	☐	☐		Total Containers

Sampled by: T. Baker / Locher Phone: 541-938-2170 FAX: Email: Troy.baker@wwbwc.org

Sample Receipt Request (Must include FAX or Email) ☐

Relinquished by	Date	Time	Received by	Date	Time
			C Dellwitz	2/14/08	1050

	Yes	No	N/A
Custody seals intact	☐	☐	☑
Sample temp 2 C satisfactory	☐	☐	☐
Samples received intact	☑	☐	
Chain of custody & labels agree	☐	☐	

HDS

Locker
5-27-08

EDGE ANALYTICAL LABORATORIES

Burlington WA (Corporate Office) | 1620 S Walnut St - 98233 | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 98225 | 360.671.0688 • 360.671.1577fax

Data Report

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

Report Date: 6/16/2008
Reference Number: 08-07095
Project: Locker/Hall Wetland/HBBIC

Collected By: T. Baker

Date Received: 5/28/2008
Peer Review

Lab Number: 15124 Sample Description: HBDIC OBS1 - HBDIC Sample Date: 5/27/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	0.17	0.01	0.0007	mg/L	1.0	SM4500-NO3 F	5/28/2008	SO	NO3NO2-080528	
15541-45-4	BROMATE	ND	0.5	0.068	ug/L	1.0	317.0	6/6/2008	MVP	317_080606A	
E-11778	HARDNESS	22.1	3.30	0.055	mg CaCO	1.0	200.7	5/30/2008	BJ	200.7-080530A	
E-10117	CHEMICAL OXYGEN DEMAND	11	8.0	2.0	mg/L	1.0	SM5220 D	6/4/2008	MAK	COD_080604	
E-10139	HYDROGEN ION (pH)	7.18			pH Units	1.0	SM4500-H+ B	5/28/2008	CCN	PH_080528	
E-10184	ELECTRICAL CONDUCTIVITY	63.4	10		uS/cm	1.0	SM2510 B	6/2/2008	CCN	EC_080602	
E-10617	TURBIDITY	0.88	0.05	0.02	NTU	1.0	180.1	5/28/2008	CCN	TURB_080528	
16887-00-6	CHLORIDE	0.5	0.1	0.012	mg/L	1.0	300.0	5/28/2008	BJ	I080528A	
E-10173	TOTAL DISSOLVED SOLIDS	61	10		mg/L	1.0	SM2540 C	6/2/2008	CCN	TDS_080602	
14265-44-2	ORTHO-PHOSPHATE	0.17	0.01	0.005	mg/L	1.0	SM4500-P F	5/28/2008	SO	OPHOS-080528	

Lab Number: 15125 Sample Description: L-1 - Locker Rd Sample Date: 5/27/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	5.86	0.05	0.0007	mg/L	5.0	SM4500-NO3 F	5/28/2008	SO	NO3NO2-080528	
16887-00-6	CHLORIDE	6.7	0.1	0.012	mg/L	1.0	300.0	5/28/2008	BJ	I080528A	
E-10173	TOTAL DISSOLVED SOLIDS	262	10		mg/L	1.0	SM2540 C	6/2/2008	CCN	TDS_080602	
15541-45-4	BROMATE	ND	0.5	0.068	ug/L	1.0	317.0	6/6/2008	MVP	317_080606A	
E-11778	HARDNESS	156	3.30	0.055	mg CaCO	1.0	200.7	5/30/2008	BJ	200.7-080530A	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	2.0	mg/L	1.0	SM5220 D	6/4/2008	MAK	COD_080604	
E-10139	HYDROGEN ION (pH)	7.00			pH Units	1.0	SM4500-H+ B	5/28/2008	CCN	PH_080528	
E-10184	ELECTRICAL CONDUCTIVITY	401	10		uS/cm	1.0	SM2510 B	6/2/2008	CCN	EC_080602	
E-10617	TURBIDITY	0.79	0.05	0.02	NTU	1.0	180.1	5/28/2008	CCN	TURB_080528	
14265-44-2	ORTHO-PHOSPHATE	0.27	0.01	0.005	mg/L	1.0	SM4500-P F	5/28/2008	SO	OPHOS-080528	

Lab Number: 15126 Sample Description: L-2 - Locker Rd Sample Date: 5/27/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	5.96	0.05	0.0007	mg/L	5.0	SM4500-NO3 F	5/28/2008	SO	NO3NO2-080528	
16887-00-6	CHLORIDE	6.5	0.1	0.012	mg/L	1.0	300.0	5/28/2008	BJ	I080528A	
E-10173	TOTAL DISSOLVED SOLIDS	205	10		mg/L	1.0	SM2540 C	6/2/2008	CCN	TDS_080602	
15541-45-4	BROMATE	ND	0.5	0.068	ug/L	1.0	317.0	6/11/2008	MVP	317_080611A	
E-11778	HARDNESS	117	3.30	0.055	mg CaCO	1.0	200.7	5/30/2008	BJ	200.7-080530A	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	2.0	mg/L	1.0	SM5220 D	6/4/2008	MAK	COD_080604	
E-10139	HYDROGEN ION (pH)	6.93			pH Units	1.0	SM4500-H+ B	5/28/2008	CCN	PH_080528	

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

WSDOE Lab C1251
WSDOH Lab 046

FORM: MULT_RESULT

Reference Number: 08-07095
Report Date: 6/16/2008

Data Report

Collected By: T. Baker

Date Received: 5/28/2008

E-10184	ELECTRICAL CONDUCTIVITY	313	10		uS/cm	1.0	SM2510 B	6/2/2008	CCN	EC_080602
E-10617	TURBIDITY	7.13	0.05	0.02	NTU	1.0	180.1	5/28/2008	CCN	TURB_080528
14265-44-2	ORTHO-PHOSPHATE	0.27	0.01	0.005	mg/L	1.0	SM4500-P F	5/28/2008	SO	OPHOS-080528

Lab Number: 15127 Sample Description: L-3 - Locker Rd Sample Date: 5/27/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	2.11	0.01	0.0007	mg/L	1.0	SM4500-NO3 F	5/28/2008	SO	NO3NO2-080528	
16887-00-6	CHLORIDE	1.8	0.1	0.012	mg/L	1.0	300.0	5/28/2008	BJ	I080528A	
E-10173	TOTAL DISSOLVED SOLIDS	98	10		mg/L	1.0	SM2540 C	6/2/2008	CCN	TDS_080602	
15541-45-4	BROMATE	ND	0.5	0.068	ug/L	1.0	317.0	6/11/2008	MVP	317_080611A	
E-11778	HARDNESS	45.7	3.30	0.055	mg CaCO	1.0	200.7	5/30/2008	BJ	200.7-080530A	
E-10117	CHEMICAL OXYGEN DEMAND	16	8.0	2.0	mg/L	1.0	SM5220 D	6/4/2008	MAK	COD_080604	
E-10139	HYDROGEN ION (pH)	6.98			pH Units	1.0	SM4500-H+ B	5/28/2008	CCN	PH_080528	
E-10184	ELECTRICAL CONDUCTIVITY	129	10		uS/cm	1.0	SM2510 B	6/2/2008	CCN	EC_080602	
E-10617	TURBIDITY	7.48	0.05	0.02	NTU	1.0	180.1	5/28/2008	CCN	TURB_080528	
14265-44-2	ORTHO-PHOSPHATE	0.22	0.01	0.005	mg/L	1.0	SM4500-P F	5/28/2008	SO	OPHOS-080528	

Lab Number: 15128 Sample Description: L-Intake Sample Date: 5/27/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	0.11	0.01	0.0007	mg/L	1.0	SM4500-NO3 F	5/28/2008	SO	NO3NO2-080528	
16887-00-6	CHLORIDE	0.6	0.1	0.012	mg/L	1.0	300.0	5/28/2008	BJ	I080528A	
E-10173	TOTAL DISSOLVED SOLIDS	54	10		mg/L	1.0	SM2540 C	6/2/2008	CCN	TDS_080602	
15541-45-4	BROMATE	ND	0.5	0.068	ug/L	1.0	317.0	6/11/2008	MVP	317_080611A	
E-11778	HARDNESS	18.7	3.30	0.055	mg CaCO	1.0	200.7	5/30/2008	BJ	200.7-080530A	
E-10117	CHEMICAL OXYGEN DEMAND	19	8.0	2.0	mg/L	1.0	SM5220 D	6/4/2008	MAK	COD_080604	
E-10139	HYDROGEN ION (pH)	7.27			pH Units	1.0	SM4500-H+ B	5/28/2008	CCN	PH_080528	
E-10184	ELECTRICAL CONDUCTIVITY	50.3	10		uS/cm	1.0	SM2510 B	6/2/2008	CCN	EC_080602	
E-10617	TURBIDITY	17.6	0.05	0.02	NTU	1.0	180.1	5/28/2008	CCN	TURB_080528	
14265-44-2	ORTHO-PHOSPHATE	0.12	0.01	0.005	mg/L	1.0	SM4500-P F	5/28/2008	SO	OPHOS-080528	

Lab Number: 15129 Sample Description: L-S1 - Mud Creek Sample Date: 5/27/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	0.57	0.01	0.0007	mg/L	1.0	SM4500-NO3 F	5/28/2008	SO	NO3NO2-080528	
16887-00-6	CHLORIDE	2.9	0.1	0.012	mg/L	1.0	300.0	5/28/2008	BJ	I080528A	
E-10173	TOTAL DISSOLVED SOLIDS	112	10		mg/L	1.0	SM2540 C	6/2/2008	CCN	TDS_080602	
15541-45-4	BROMATE	ND	0.5	0.068	ug/L	1.0	317.0	6/11/2008	MVP	317_080611A	
E-11778	HARDNESS	65.0	3.30	0.055	mg CaCO	1.0	200.7	5/30/2008	BJ	200.7-080530A	
E-10117	CHEMICAL OXYGEN DEMAND	11	8.0	2.0	mg/L	1.0	SM5220 D	6/4/2008	MAK	COD_080604	
E-10139	HYDROGEN ION (pH)	7.24			pH Units	1.0	SM4500-H+ B	5/28/2008	CCN	PH_080528	
E-10184	ELECTRICAL CONDUCTIVITY	162	10		uS/cm	1.0	SM2510 B	6/2/2008	CCN	EC_080602	
E-10617	TURBIDITY	4.95	0.05	0.02	NTU	1.0	180.1	5/28/2008	CCN	TURB_080528	
14265-44-2	ORTHO-PHOSPHATE	0.18	0.01	0.005	mg/L	1.0	SM4500-P F	5/28/2008	SO	OPHOS-080528	

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

WSDOE Lab C1251
WSDOH Lab 046

FORM: MULT_RESULT

Reference Number: 08-07095
Report Date: 6/16/2008

Data Report

Collected By: T. Baker

Date Received: 5/28/2008

Lab Number: 15130 Sample Description: L-S2 - Mud Creek Sample Date: 5/27/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	0.87	0.01	0.0007	mg/L	1.0	SM4500-NO3 F	5/28/2008	SO	NO3NO2-080528	
16887-00-6	CHLORIDE	4.6	0.1	0.012	mg/L	1.0	300.0	5/28/2008	BJ	I080528A	
E-10173	TOTAL DISSOLVED SOLIDS	188	10		mg/L	1.0	SM2540 C	6/2/2008	CCN	TDS_080602	
15541-45-4	BROMATE	ND	0.5	0.068	ug/L	1.0	317.0	6/11/2008	MVP	317_080611A	
E-11778	HARDNESS	112	3.30	0.055	mg CaC(	1.0	200.7	5/30/2008	BJ	200.7-080530A	
E-10117	CHEMICAL OXYGEN DEMAND	21	8.0	2.0	mg/L	1.0	SM5220 D	6/4/2008	MAK	COD_080604	
E-10139	HYDROGEN ION (pH)	7.50			pH Units	1.0	SM4500-H+ B	5/28/2008	CCN	PH_080528	
E-10184	ELECTRICAL CONDUCTIVITY	298	10		uS/cm	1.0	SM2510 B	6/2/2008	CCN	EC_080602	
E-10617	TURBIDITY	4.11	0.05	0.02	NTU	1.0	180.1	5/28/2008	CCN	TURB_080528	
14265-44-2	ORTHO-PHOSPHATE	0.24	0.01	0.005	mg/L	1.0	SM4500-P F	5/28/2008	SO	OPHOS-080528	

Lab Number: 15131 Sample Description: HW#1 - Hall Wetland Sample Date: 5/27/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	1.03	0.01	0.0007	mg/L	1.0	SM4500-NO3 F	5/28/2008	SO	NO3NO2-080528	
15541-45-4	BROMATE	ND	0.5	0.068	ug/L	1.0	317.0	6/12/2008	MVP	317_080612A	
E-11778	HARDNESS	61.2	3.30	0.055	mg CaC(	1.0	200.7	5/30/2008	BJ	200.7-080530A	
E-10117	CHEMICAL OXYGEN DEMAND	ND	8.0	2.0	mg/L	1.0	SM5220 D	6/4/2008	MAK	COD_080604	
E-10139	HYDROGEN ION (pH)	6.75			pH Units	1.0	SM4500-H+ B	5/28/2008	CCN	PH_080528	
E-10184	ELECTRICAL CONDUCTIVITY	163	10		uS/cm	1.0	SM2510 B	6/2/2008	CCN	EC_080602	
E-10617	TURBIDITY	0.56	0.05	0.02	NTU	1.0	180.1	5/28/2008	CCN	TURB_080528	
16887-00-6	CHLORIDE	2.4	0.1	0.012	mg/L	1.0	300.0	5/28/2008	BJ	I080528A	
E-10173	TOTAL DISSOLVED SOLIDS	122	10		mg/L	1.0	SM2540 C	6/2/2008	CCN	TDS_080602	
14265-44-2	ORTHO-PHOSPHATE	0.24	0.01	0.005	mg/L	1.0	SM4500-P F	5/28/2008	SO	OPHOS-080528	

Lab Number: 15132 Sample Description: HW #2 - Hall Wetland Sample Date: 5/27/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	0.84	0.01	0.0007	mg/L	1.0	SM4500-NO3 F	5/28/2008	SO	NO3NO2-080528	
15541-45-4	BROMATE	ND	0.5	0.068	ug/L	1.0	317.0	6/12/2008	MVP	317_080612A	
E-11778	HARDNESS	48.6	3.30	0.055	mg CaC(	1.0	200.7	5/30/2008	BJ	200.7-080530A	
E-10117	CHEMICAL OXYGEN DEMAND	12	8.0	2.0	mg/L	1.0	SM5220 D	6/4/2008	MAK	COD_080604	
E-10139	HYDROGEN ION (pH)	6.61			pH Units	1.0	SM4500-H+ B	5/28/2008	CCN	PH_080528	
E-10184	ELECTRICAL CONDUCTIVITY	135	10		uS/cm	1.0	SM2510 B	6/2/2008	CCN	EC_080602	
E-10617	TURBIDITY	1.24	0.05	0.02	NTU	1.0	180.1	5/28/2008	CCN	TURB_080528	
16887-00-6	CHLORIDE	1.6	0.1	0.012	mg/L	1.0	300.0	5/28/2008	BJ	I080528A	
E-10173	TOTAL DISSOLVED SOLIDS	112	10		mg/L	1.0	SM2540 C	6/2/2008	CCN	TDS_080602	
14265-44-2	ORTHO-PHOSPHATE	0.25	0.01	0.005	mg/L	1.0	SM4500-P F	5/28/2008	SO	OPHOS-080528	

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ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
D.F. - Dilution Factor

WSDOE Lab C1251
WSDOH Lab 046

FORM: MULT_RESULT

Reference Number: 08-07095
Report Date: 6/16/2008

Data Report

Collected By: T. Baker

Date Received: 5/28/2008

Lab Number: 15133 Sample Description: HW #3 - Hall Wetland Sample Date: 5/27/2008

CAS ID#	Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
14797-55-8	NITRATE-N	1.11	0.01	0.0007	mg/L	1.0	SM4500-NO3 F	5/28/2008	SO	NO3NO2-080528	
15541-45-4	BROMATE	ND	0.5	0.068	ug/L	1.0	317.0	6/12/2008	MVP	317_080612A	
E-11778	HARDNESS	61.8	3.30	0.055	mg CaC	1.0	200.7	5/30/2008	BJ	200.7-080530A	
E-10117	CHEMICAL OXYGEN DEMAND	10	8.0	2.0	mg/L	1.0	SM5220 D	6/4/2008	MAK	COD_080604	
E-10139	HYDROGEN ION (pH)	6.74			pH Units	1.0	SM4500-H+ B	5/28/2008	CCN	PH_080528	
E-10617	TURBIDITY	8.45	0.05	0.02	NTU	1.0	180.1	5/28/2008	CCN	TURB_080528	
16887-00-6	CHLORIDE	2.3	0.1	0.012	mg/L	1.0	300.0	5/28/2008	BJ	I080528A	
E-10173	TOTAL DISSOLVED SOLIDS	120	10		mg/L	1.0	SM2540 C	6/2/2008	CCN	TDS_080602	
14265-44-2	ORTHO-PHOSPHATE	0.23	0.01	0.005	mg/L	1.0	SM4500-P F	5/28/2008	SO	OPHOS-080528	
E-10184	ELECTRICAL CONDUCTIVITY	152	10		uS/cm	1.0	SM2510 B	6/13/2008	CCN	EC_080613	

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D.F. - Dilution Factor

WSDOE Lab C1251
WSDOH Lab 046

FORM: MULT_RESULT

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Microbiology | 360.671.0688 • 360.671.1577fax

DATA REPORT

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW#1
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615131
Report Date: 6/10/2008
Date Analyzed: 6/9/2008
Extraction Date: 508_080609
Analyst: GEB
Peer Review:
Analytical Method: 508.1
Synthetic Organics

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	PCBs/Toxaphene						
1336-36-3	PCBS (Total Aroclors)	ND	ug/L	0.2		0.5	
11104-28-2	AROCLOR 1221	ND	ug/L	0.1	0.1^		
11141-16-5	AROCLOR 1232	ND	ug/L	0.1	0.1^		
53469-21-9	AROCLOR 1242	ND	ug/L	0.1	0.1^		
12672-29-6	AROCLOR 1248	ND	ug/L	0.1	0.1^		
11097-69-1	AROCLOR 1254	ND	ug/L	0.1	0.1^		
11096-82-5	AROCLOR 1260	ND	ug/L	0.1	0.08		
12674-11-2	AROCLOR 1016	ND	ug/L	0.1	0.1		
8001-35-2	TOXAPHENE	ND	ug/L	1	0.5	3	

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.
PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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DATA REPORT

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HBDIC OBS1
Sample Description: HBDIC
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615124
Report Date: 6/10/2008
Date Analyzed: 6/9/2008
Extraction Date: 508_080609
Analyst: GEB
Peer Review:
Analytical Method: 508.1
Synthetic Organics

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	PCBs/Toxaphene						
1336-36-3	PCBS (Total Aroclors)	ND	ug/L	0.2		0.5	
11104-28-2	AROCLOR 1221	ND	ug/L	0.1	0.1^		
11141-16-5	AROCLOR 1232	ND	ug/L	0.1	0.1^		
53469-21-9	AROCLOR 1242	ND	ug/L	0.1	0.1^		
12672-29-6	AROCLOR 1248	ND	ug/L	0.1	0.1^		
11097-69-1	AROCLOR 1254	ND	ug/L	0.1	0.1^		
11096-82-5	AROCLOR 1260	ND	ug/L	0.1	0.08		
12674-11-2	AROCLOR 1016	ND	ug/L	0.1	0.1		
8001-35-2	TOXAPHENE	ND	ug/L	1	0.5	3	

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
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J - Estimated value.

ANALYTICAL LABORATORIES

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DATA REPORT

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW #2
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615132
Report Date: 6/10/2008
Date Analyzed: 6/9/2008
Extraction Date: 508_080609
Analyst: GEB
Peer Review:
Analytical Method: 508.1
Synthetic Organics

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	PCBs/Toxaphene						
1336-36-3	PCBS (Total Aroclors)	ND	ug/L	0.2		0.5	
11104-28-2	AROCLOR 1221	ND	ug/L	0.1	0.1^		
11141-16-5	AROCLOR 1232	ND	ug/L	0.1	0.1^		
53469-21-9	AROCLOR 1242	ND	ug/L	0.1	0.1^		
12672-29-6	AROCLOR 1248	ND	ug/L	0.1	0.1^		
11097-69-1	AROCLOR 1254	ND	ug/L	0.1	0.1^		
11096-82-5	AROCLOR 1260	ND	ug/L	0.1	0.08		
12674-11-2	AROCLOR 1016	ND	ug/L	0.1	0.1		
8001-35-2	TOXAPHENE	ND	ug/L	1	0.5	3	

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

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DATA REPORT

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW #3
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615133
Report Date: 6/10/2008
Date Analyzed: 6/9/2008
Extraction Date: 508_080609
Analyst: GEB
Peer Review:
Analytical Method: 508.1
Synthetic Organics

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	PCBs/Toxaphene						
1336-36-3	PCBS (Total Aroclors)	ND	ug/L	0.2		0.5	
11104-28-2	AROCLOR 1221	ND	ug/L	0.1	0.1^		
11141-16-5	AROCLOR 1232	ND	ug/L	0.1	0.1^		
53469-21-9	AROCLOR 1242	ND	ug/L	0.1	0.1^		
12672-29-6	AROCLOR 1248	ND	ug/L	0.1	0.1^		
11097-69-1	AROCLOR 1254	ND	ug/L	0.1	0.1^		
11096-82-5	AROCLOR 1260	ND	ug/L	0.1	0.08		
12674-11-2	AROCLOR 1016	ND	ug/L	0.1	0.1		
8001-35-2	TOXAPHENE	ND	ug/L	1	0.5	3	

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.
PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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CARBAMATES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: L-1
Sample Description: Locker Rd
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615125
Report Date: 6/16/2008
Date Analyzed: 6/11/2008
Extraction Date: 531_080611
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.
PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

EDGE ANALYTICAL LABORATORIES

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CARBAMATES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: L-2
Sample Description: Locker Rd
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615126
Report Date: 6/16/2008
Date Analyzed: 6/11/2008
Extraction Date: 531_080611
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds. A blank MCL or SAL value indicates a level is not currently established.

PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

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CARBAMATES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: L-3
Sample Description: Locker Rd
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615127
Report Date: 6/16/2008
Date Analyzed: 6/11/2008
Extraction Date: 531_080611
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.
PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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Microbiology | 360.671.0688 • 360.671.1577fax

CARBAMATES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: L-Intake
Sample Description: L-Intake
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615128
Report Date: 6/16/2008
Date Analyzed: 6/11/2008
Extraction Date: 531_080611
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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CARBAMATES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HBDIC OBS1
Sample Description: HBDIC
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615124
Report Date: 6/16/2008
Date Analyzed: 6/11/2008
Extraction Date: 531_080611
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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CARBAMATES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: L-S1
Sample Description: Mud Creek
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615129
Report Date: 6/16/2008
Date Analyzed: 6/11/2008
Extraction Date: 531_080611
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
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CARBAMATES IN DRINKING WATER

ClientName: Walla Walla Basin Watershed Council
810 S Main Street
Milton-Freewater, OR 97862

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: L-S2
Sample Description: Mud Creek
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615130
Report Date: 6/16/2008
Date Analyzed: 6/11/2008
Extraction Date: 531_080611
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
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CARBAMATES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW#1
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615131
Report Date: 6/16/2008
Date Analyzed: 6/11/2008
Extraction Date: 531_080611
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

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CARBAMATES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW #2
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615132
Report Date: 6/16/2008
Date Analyzed: 6/11/2008
Extraction Date: 531_080611
Analyst: CO
Peer Review: MVA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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CARBAMATES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW #3
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615133
Report Date: 6/16/2008
Date Analyzed: 6/11/2008
Extraction Date: 531_080611
Analyst: CO
Peer Review: MUA
Analytical Method: 531.2 Carbamates

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
23135-22-0	OXYMAL	ND	ug/L	1.0	0.81	200	
1563-66-2	CARBOFURAN	ND	ug/L	1.0	0.87	40	
	EPA Unregulated						
1646-87-3	ALDICARB SULFOXIDE	ND	ug/L	1.0	0.71		
1646-88-4	ALDICARB SULFONE	ND	ug/L	1.0	0.83		
16752-77-5	METHOMYL	ND	ug/L	1.0	0.86		
16655-82-6	3-HYDROXYCARBOFURAN	ND	ug/L	1.0	1.0		
116-06-3	ALDICARB	ND	ug/L	1.0	0.88		
63-25-2	CARBARYL	ND	ug/L	1.0	0.53		
	State Unregulated - Other						
114-26-1	PROPOXUR (BAYGON)	ND	ug/L	1.0	0.72		
2032-65-7	METHIOCARB	ND	ug/L	1.0	0.76		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.
MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA. NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.
PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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HERBICIDES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HBDIC OBS1
Sample Description: HBDIC
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615124
Report Date: 6/26/2008
Date Analyzed: 6/18/2008
Extraction Date: 515_080602
Analyst: CO
Peer Review: MJA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	ND	ug/L	0.1	0.089		
E-14-02-8	DCPA (ACID METABOLITES)	ND	ug/L	0.1	0.1		
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.
PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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HERBICIDES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: L-1
Sample Description: Locker Rd
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615125
Report Date: 6/26/2008
Date Analyzed: 6/18/2008
Extraction Date: 515_080602
Analyst: CO
Peer Review: MVA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.60	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	ND	ug/L	0.1	0.089		
E-14-02-8	DCPA (ACID METABOLITES)	ND	ug/L	0.1	0.1		
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

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HERBICIDES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: L-2
Sample Description: Locker Rd
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615126
Report Date: 6/19/2008
Date Analyzed: 6/17/2008
Extraction Date: 515_080602
Analyst: CO
Peer Review: MJA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	ND	ug/L	0.1	0.089		
E-14-02-8	DCPA (ACID METABOLITES)	ND	ug/L	0.1	0.1		
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

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A blank MCL or SAL value indicates a level is not currently established.

PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

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Microbiology | 360.671.0688 • 360.671.1577fax

HERBICIDES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: L-3
Sample Description: Locker Rd
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615127
Report Date: 6/26/2008
Date Analyzed: 6/18/2008
Extraction Date: 515_080602
Analyst: CO
Peer Review: MWA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	ND	ug/L	0.1	0.089		
E-14-02-8	DCPA (ACID METABOLITES)	ND	ug/L	0.1	0.1		
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

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A blank MCL or SAL value indicates a level is not currently established.

PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

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HERBICIDES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: L-Intake
Sample Description: L-Intake
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615128
Report Date: 6/26/2008
Date Analyzed: 6/18/2008
Extraction Date: 515_080602
Analyst: CO
Peer Review: MVA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	0.2	ug/L	0.1	0.089		GC/MS CONFIRMED
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.
PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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HERBICIDES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBtC
Field ID: L-S1
Sample Description: Mud Creek
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615129
Report Date: 6/26/2008
Date Analyzed: 6/17/2008
Extraction Date: 515_080602
Analyst: CO
Peer Review: MVA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	0.4	ug/L	0.1	0.089		GC/MS CONFIRMED
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.
PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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HERBICIDES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: L-S2
Sample Description: Mud Creek
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615130
Report Date: 6/26/2008
Date Analyzed: 6/17/2008
Extraction Date: 515_080602
Analyst: CO
Peer Review: MVA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	0.18	ug/L	0.1	0.045		GC/MS CONFIRMED
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	0.2	ug/L	0.1	0.089		GC/MS CONFIRMED
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

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MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.

PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

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HERBICIDES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW#1
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615131
Report Date: 6/19/2008
Date Analyzed: 6/17/2008
Extraction Date: 515_080602-
Analyst: CO
Peer Review: MVA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	ND	ug/L	0.1	0.089		
E-14-02-8	DCPA (ACID METABOLITES)	ND	ug/L	0.1	0.1		
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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HERBICIDES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW #2
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615132
Report Date: 6/26/2008
Date Analyzed: 6/18/2008
Extraction Date: 515_080602
Analyst: CO
Peer Review: MVA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	ND	ug/L	0.1	0.089		
E-14-02-8	DCPA (ACID METABOLITES)	ND	ug/L	0.1	0.1		
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

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J - Estimated value.

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HERBICIDES IN DRINKING WATER

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW #3
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 04615133
Report Date: 6/19/2008
Date Analyzed: 6/17/2008
Extraction Date: 515_080602
Analyst: CO
Peer Review: MVA
Analytical Method: 515.1
Chlorophenoxy Herbicides

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
94-75-7	2,4 - D	ND	ug/L	0.2	0.11	70	
93-72-1	2,4,5 - TP (SILVEX)	ND	ug/L	0.1	0.02	50	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.1	0.044	1	
75-99-0	DALAPON	ND	ug/L	1.3	0.80	200	
88-85-7	DINOSEB	ND	ug/L	0.2	0.16	7	
1918-02-1	PICLORAM	ND	ug/L	0.1	0.089	500	
	EPA Unregulated						
1918-00-9	DICAMBA	ND	ug/L	0.1	0.045		
	State Unregulated						
1861-32-1	TOTAL (DCPA & Metabolites)	ND	ug/L	0.1	0.089		
E-14-02-8	DCPA (ACID METABOLITES)	ND	ug/L	0.1	0.1		
94-82-6	2,4 DB	ND	ug/L	0.8	0.10		
93-76-5	2,4,5 T	ND	ug/L	0.1	0.044		
25057-89-0	BENTAZON	ND	ug/L	0.2	0.067		
120-36-5	DICHLORPROP	ND	ug/L	0.3	0.089		
50594-66-6	ACIFLUORFEN	ND	ug/L	0.1	0.089		
133-90-4	CHLORAMBEN	ND	ug/L	0.2	0.2		
51-36-5	3,5 - DICHLOROBENZOIC ACID	ND	ug/L	0.1	0.044		

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PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

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WSDOE Lab C1251

DATA REPORT

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

Lab Number: 15131
Field ID: HW#1
Sample Description: Hall Wetland
Matrix: Water
Collect Date: 5/27/2008
Extraction Date: 6/3/2008
Extraction Method: 3535

Reference Number: 08-07095
Project: Locker/Hall Wetland/HBBIC

Report Date: 6/16/2008
Date Analyzed: 6/13/2008
Analyst: GEB
Peer Review:
Analytical Method: 549.2

Paraquat

CAS ID#	COMPOUNDS	RESULT	Flag	Units	PQL	MDL	D.F.	Batch	COMMENT
1910-42-5	PARAQUAT	ND		ug/L	2	1.0	1.0	549_080603	

Result of: NA - indicates the compound was not analyzed.
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor.

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WSDOE Lab C1251

DATA REPORT

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

Lab Number: 15132
Field ID: HW #2
Sample Description: Hall Wetland
Matrix: Water
Collect Date: 5/27/2008
Extraction Date: 6/3/2008
Extraction Method: 3535

Reference Number: 08-07095
Project: Locker/Hall Wetland/HBBIC

Report Date: 6/16/2008
Date Analyzed: 6/13/2008
Analyst: GEB
Peer Review:
Analytical Method: 549.2

Paraquat

CAS ID#	COMPOUNDS	RESULT	Flag	Units	PQL	MDL	D.F.	Batch	COMMENT
1910-42-5	PARAQUAT	ND		ug/L	2	1.0	1.0	549_080603	

Result of: NA - indicates the compound was not analyzed.
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.

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.

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Bellingham WA (Microbiology) | 805 Orchard Dr Suite 4 - 98225 | 360.671.0688 • 360.671.1577fax

WSDOE Lab C1251

DATA REPORT

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

Reference Number: 08-07095
Project: Locker/Hall Wetland/HBBIC

Lab Number: 15133
Field ID: HW #3
Sample Description: Hall Wetland
Matrix: Water
Collect Date: 5/27/2008
Extraction Date: 6/3/2008
Extraction Method: 3535

Report Date: 6/16/2008
Date Analyzed: 6/13/2008
Analyst: GEB
Peer Review:
Analytical Method: 549.2

Paraquat

CAS ID#	COMPOUNDS	RESULT	Flag	Units	PQL	MDL	D.F.	Batch	COMMENT
1910-42-5	PARAQUAT	ND		ug/L	2	1.0	1.0	549_080603	

Result of: NA - indicates the compound was not analyzed.
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.

PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
D.F. - Dilution Factor.

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SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HBDIC OBS1
Sample Description: HBDIC
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 15124
Report Date: 7/3/2008
Date Analyzed: 6/16/2008
Extraction Date: 525_080609
Analyst: CO
Peer Review: MVA
Analytical Method: 525.2
Synthetic Organics

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
72-20-8	ENDRIN	ND	ug/L	0.1	0.030	2	
58-89-9	LINDANE (BHC - GAMMA)	ND	ug/L	0.1	0.028	0.2	
72-43-5	METHOXYCHLOR	ND	ug/L	0.1	0.015	40	
15972-60-8	ALACHLOR	ND	ug/L	0.1	0.044	2	
1912-24-9	ATRAZINE	ND	ug/L	0.1	0.030	3	
50-32-8	BENZO(A)PYRENE	ND	ug/L	0.1	0.012	0.2	
57-74-9	CHLORDANE, TECHNICAL	ND	ug/L	0.1	0.3	2	
103-23-1	DI(ETHYLHEXYL)-ADIPATE	ND	ug/L	0.1	0.022	400	
117-81-7	DI(ETHYLHEXYL)-PHTHALATE	ND	ug/L	0.1	0.063	6	
76-44-8	HEPTACHLOR	ND	ug/L	0.1	0.022	0.4	
1024-57-3	HEPTACHLOR EPOXIDE	ND	ug/L	0.1	0.02	0.2	
118-74-1	HEXACHLOROBENZENE	ND	ug/L	0.1	0.025	1	
77-47-4	HEXACHLOROCYCLO-PENTADIENE	ND	ug/L	0.1	0.024	50	
122-34-9	SIMAZINE	ND	ug/L	0.1	0.030	4	
87-86-5	PENTACHLOROPHENOL	ND	ug/L	0.4	0.08	1	screening only / compliance by 515.1
	EPA Unregulated						
309-00-2	ALDRIN	ND	ug/L	0.1	0.022		
23184-66-9	BUTACHLOR	ND	ug/L	0.1	0.024		
60-57-1	DIELDRIN	ND	ug/L	0.1	0.031		
51218-45-2	METOLACHLOR	ND	ug/L	0.1	0.024		
21087-64-9	METRIBUZIN	ND	ug/L	0.1	0.030		
1918-16-7	PROPACHLOR	ND	ug/L	0.1	0.031		
	State Unregulated - Other						
314-40-9	BROMACIL	ND	ug/L	0.1	0.031		
5902-51-2	TERBACIL	ND	ug/L	0.1	0.043		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

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SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
333-41-5	DIAZINON	ND	ug/L	0.1	0.035		Unstable in Acidified Sample Matrix
759-94-4	EPTC	ND	ug/L	0.1	0.028		
72-54-8	4,4-DDD	ND	ug/L	0.1	0.024		
72-55-9	4,4-DDE	ND	ug/L	0.1	0.024		
50-29-3	4,4-DDT	ND	ug/L	0.1	0.022		
21725-46-2	CYANAZINE	ND	ug/L	0.1	0.13		Qualitative Analysis Only
121-75-5	MALATHION	ND	ug/L	0.1	0.015		
56-38-2	PARATHION	ND	ug/L	0.1	0.022		
1582-09-8	TRIFLURALIN	ND	ug/L	0.1	0.024		
	- PAHs						
91-20-3	NAPTHALENE	ND	ug/L	0.1	0.1^		
86-73-7	FLUORENE	ND	ug/L	0.1	0.026		
208-96-8	ACENAPHTHYLENE	ND	ug/L	0.1	0.025		
83-32-9	ACENAPHTHENE	ND	ug/L	0.1	0.1^		
120-12-7	ANTHRACENE	ND	ug/L	0.1	0.012		
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205-99-2	BENZO(B)FLUORANTHENE	ND	ug/L	0.1	0.025		
191-24-2	BENZO(G,H,I)PERYLENE	ND	ug/L	0.1	0.025		
207-08-9	BENZO(K)FLUORANTHENE	ND	ug/L	0.1	0.022		
218-01-9	CHRYSENE	ND	ug/L	0.1	0.022		
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	ug/L	0.1	0.024		
206-44-0	FLUORANTHENE	ND	ug/L	0.1	0.1^		
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	ug/L	0.1	0.040		
85-01-8	PHENANTHRENE	ND	ug/L	0.1	0.015		
129-00-0	PYRENE	ND	ug/L	0.1	0.022		
	- Phthalates						
85-68-7	BENZYL BUTYL PHTHALATE	ND	ug/L	0.1	0.022		
84-74-2	DI-N-BUTYL PHTHALATE	ND	ug/L	0.1	0.085		
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131-11-3	DIMETHYL PHTHALATE	ND	ug/L	0.1	0.015		

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SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW#1
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 15131
Report Date: 7/3/2008
Date Analyzed: 6/16/2008
Extraction Date: 525_080609
Analyst: CO
Peer Review: MVA
Analytical Method: 525.2
Synthetic Organics

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
	EPA Regulated						
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SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW #2
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 15132
Report Date: 7/3/2008
Date Analyzed: 6/16/2008
Extraction Date: 525_080609
Analyst: CO
Peer Review: MVA
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Synthetic Organics

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
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SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

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

Reference Number: 08-07095

Project: Locker/Hall Wetland/HBBIC
Field ID: HW #3
Sample Description: Hall Wetland
Sampled By: T. Baker
Sample Date: 5/27/2008
Source Type:
Sampler Phone:

Lab Number: 15133
Report Date: 7/3/2008
Date Analyzed: 6/16/2008
Extraction Date: 525_080609
Analyst: CO
Peer Review: MUA
Analytical Method: 525.2
Synthetic Organics

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309-00-2	ALDRIN	ND	ug/L	0.1	0.022		
23184-66-9	BUTACHLOR	ND	ug/L	0.1	0.024		
60-57-1	DIELDRIN	ND	ug/L	0.1	0.031		
51218-45-2	METOLACHLOR	ND	ug/L	0.1	0.024		
21087-64-9	METRIBUZIN	ND	ug/L	0.1	0.030		
1918-16-7	PROPACHLOR	ND	ug/L	0.1	0.031		
	State Unregulated - Other						
314-40-9	BROMACIL	ND	ug/L	0.1	0.031		
5902-51-2	TERBACIL	ND	ug/L	0.1	0.043		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.
PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.
MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.
J - Estimated value.

SYNTHETIC ORGANIC COMPOUNDS (SOC) REPORT

CAS	COMPOUND	RESULTS	Units	PQL	MDL	MCL	COMMENT
333-41-5	DIAZINON	ND	ug/L	0.1	0.035		Unstable in Acidified Sample Matrix
759-94-4	EPTC	ND	ug/L	0.1	0.028		
72-54-8	4,4-DDD	ND	ug/L	0.1	0.024		
72-55-9	4,4-DDE	ND	ug/L	0.1	0.024		
50-29-3	4,4-DDT	ND	ug/L	0.1	0.022		
21725-46-2	CYANAZINE	ND	ug/L	0.1	0.13		Qualitative Analysis Only
121-75-5	MALATHION	ND	ug/L	0.1	0.015		
56-38-2	PARATHION	ND	ug/L	0.1	0.022		
1582-09-8	TRIFLURALIN	ND	ug/L	0.1	0.024		
	- PAHs						
91-20-3	NAPTHALENE	ND	ug/L	0.1	0.1^		
86-73-7	FLUORENE	ND	ug/L	0.1	0.026		
208-96-8	ACENAPHTHYLENE	ND	ug/L	0.1	0.025		
83-32-9	ACENAPHTHENE	ND	ug/L	0.1	0.1^		
120-12-7	ANTHRACENE	ND	ug/L	0.1	0.012		
56-55-3	BENZ(A)ANTHRACENE	ND	ug/L	0.1	0.012		
205-99-2	BENZO(B)FLUORANTHENE	ND	ug/L	0.1	0.025		
191-24-2	BENZO(G,H,I)PERYLENE	ND	ug/L	0.1	0.025		
207-08-9	BENZO(K)FLUORANTHENE	ND	ug/L	0.1	0.022		
218-01-9	CHRYSENE	ND	ug/L	0.1	0.022		
53-70-3	DIBENZO(A,H)ANTHRACENE	ND	ug/L	0.1	0.024		
206-44-0	FLUORANTHENE	ND	ug/L	0.1	0.1^		
193-39-5	INDENO(1,2,3-CD)PYRENE	ND	ug/L	0.1	0.040		
85-01-8	PHENANTHRENE	ND	ug/L	0.1	0.015		
129-00-0	PYRENE	ND	ug/L	0.1	0.022		
	- Phthalates						
85-68-7	BENZYL BUTYL PHTHALATE	ND	ug/L	0.1	0.022		
84-74-2	DI-N-BUTYL PHTHALATE	ND	ug/L	0.1	0.085		
84-66-2	DIETHYL PHTHALATE	ND	ug/L	0.1	0.044		
131-11-3	DIMETHYL PHTHALATE	ND	ug/L	0.1	0.015		

ND = Not detected above the listed practical quantitation limit (PQL) or not above the Method Detection Limit (MDL), if requested.

MCL- Maximum Contaminant Level, maximum permissible level of a contaminant in water established by EPA, NPDWR. State Advisory Level (SAL) for Unregulated compounds.
A blank MCL or SAL value indicates a level is not currently established.

PQL - Practical Quantitation Limit is the concentration of the standard analyzed during the initial calibration.

MDL - Method Detection Limit is the lab's minimum concentration a compound can be measured and reported with 99% confidence that the compound concentration is greater than zero.

J - Estimated value.

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WSDOE Lab C1251

DATA REPORT

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

Reference Number: 08-07095
Project: Locker/Hall Wetland/HBBIC

Lab Number: 15131
Field ID: HW#1
Sample Description: Hall Wetland
Matrix: Water
Collect Date: 5/27/2008
Extraction Date: 6/9/2008
Extraction Method: 3535

Report Date: 7/9/2008
Date Analyzed: 6/25/2008
Analyst: CO
Peer Review: MVA
Analytical Method: 525.2

SOC for Walla Walla

CAS ID#	COMPOUNDS	RESULT	Flag	Units	PQL	MDL	D.F.	Batch	COMMENT
2312-35-8	PROPARGITE	ND		ug/L		-	1.0	525X_080609	Qualitative analysis
80-05-7	BISPHENOL-A	ND		ug/L	0.1	-	1.0	525X_080609	
60-51-5	DIMETHOATE	ND		ug/L	0.5	0.03	1.0		
57837-19-1	METALAXYL	ND		ug/L	0.1	-	1.0		
15299-99-7	NAPROPAMIDE	ND		ug/L	0.1	0.05	1.0		
122-34-9	SIMAZINE	ND		ug/L	0.1	0.03	1.0		
86-86-2	1-NAPHTHALENEACETAMIDE	ND		ug/L	0.5	-	1.0		
333-41-5	DIAZINON	ND		ug/L	0.1	0.04	1.0		
60168-88-9	FENARIMOL	ND		ug/L	0.1	0.03	1.0		
58-89-9	LINDANE (BHC - GAMMA)	ND		ug/L	0.1	0.03	1.0		
7786-34-7	MEVINPHOS	ND		ug/l	0.1	0.03	1.0		
86-50-0	AZINPHOS-METHYL	ND		ug/L	0.5	0.12	1.0		
2921-88-2	CHLORPYRIFOS	ND		ug/L	0.1	0.04	1.0		
72-54-8	4,4-DDD	ND		ug/L	0.1	0.02	1.0		
72-55-9	4,4-DDE	ND		ug/L	0.1	0.02	1.0		
50-29-3	4,4-DDT	ND		ug/L	0.1	0.03	1.0		
115-32-2	DICOFOL	ND		ug/L	1	-	1.0		
121-75-5	MALATHION	ND		ug/L	0.1	0.05	1.0		
298-00-0	METHYL PARATHION	ND		ug/L	0.5	0.1	1.0		
56-38-2	PARATHION-ETHYL	ND		ug/L	0.1	0.05	1.0		
732-11-6	PHOSMET	ND		ug/L	0.5	-	1.0		
43121-43-3	TRIADIMEFON	ND		ug/L	0.1	0.07	1.0		
68694-11-1	TRIFLUMIZOLE	ND		ug/L	1.0	1.0	1.0		
950-37-8	METHIDATHINON	ND		ug/L	0.5	0.5	1.0		
88671-89-0	MYCLOBUTANIL	ND		ug/L	0.5	0.5	1.0		
51235-04-2	HEXAZINONE	ND		ug/L	0.1	0.05	1.0		

Result of: NA - indicates the compound was not analyzed.
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.

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.

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WSDOE Lab C1251

DATA REPORT

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

Reference Number: 08-07095
Project: Locker/Hall Wetland/HBBIC

Lab Number: 15124
Field ID: HBDIC OBS1
Sample Description: HBDIC
Matrix: Water
Collect Date: 5/27/2008
Extraction Date: 6/9/2008
Extraction Method: 3535

Report Date: 7/9/2008
Date Analyzed: 6/25/2008
Analyst: CO
Peer Review: MVA
Analytical Method: 525.2

SOC for Walla Walla

CAS ID#	COMPOUNDS	RESULT	Flag	Units	PQL	MDL	D.F.	Batch	COMMENT
2312-35-8	PROPARGITE	ND		ug/L		-	1.0	525X_080609	Qualitative analysis
80-05-7	BISPHENOL-A	0.5		ug/L	0.1		1.0	525X_080609	
60-51-5	DIMETHOATE	ND		ug/L	0.5	0.03	1.0		
57837-19-1	METALAXYL	ND		ug/L	0.1	-	1.0		
15299-99-7	NAPROPAMIDE	ND		ug/L	0.1	0.05	1.0		
122-34-9	SIMAZINE	ND		ug/L	0.1	0.03	1.0		
86-86-2	1-NAPHTHALENEACETAMIDE	ND		ug/L	0.5	-	1.0		
333-41-5	DIAZINON	ND		ug/L	0.1	0.04	1.0		
60168-88-9	FENARIMOL	ND		ug/L	0.1	0.03	1.0		
58-89-9	LINDANE (BHC - GAMMA)	ND		ug/L	0.1	0.03	1.0		
7786-34-7	MEVINPHOS	ND		ug/l	0.1	0.03	1.0		
86-50-0	AZINPHOS-METHYL	ND		ug/L	0.5	0.12	1.0		
2921-88-2	CHLORPYRIFOS	ND		ug/L	0.1	0.04	1.0		
72-54-8	4,4-DDD	ND		ug/L	0.1	0.02	1.0		
72-55-9	4,4-DDE	ND		ug/L	0.1	0.02	1.0		
50-29-3	4,4-DDT	ND		ug/L	0.1	0.03	1.0		
115-32-2	DICOFOL	ND		ug/L	1	-	1.0		
121-75-5	MALATHION	ND		ug/L	0.1	0.05	1.0		
298-00-0	METHYL PARATHION	ND		ug/L	0.5	0.1	1.0		
56-38-2	PARATHION-ETHYL	ND		ug/L	0.1	0.05	1.0		
732-11-6	PHOSMET	ND		ug/L	0.5	-	1.0		
43121-43-3	TRIADIMEFON	ND		ug/L	0.1	0.07	1.0		
68694-11-1	TRIFLUMIZOLE	ND		ug/L	1.0	1.0	1.0		
950-37-8	METHIDATHINON	ND		ug/L	0.5	0.5	1.0		
88671-89-0	MYCLOBUTANIL	ND		ug/L	0.5	0.5	1.0		
51235-04-2	HEXAZINONE	ND		ug/L	0.1	0.05	1.0		

Result of: NA - indicates the compound was not analyzed.
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.

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WSDOE Lab C1251

DATA REPORT

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

Reference Number: 08-07095
Project: Locker/Hall Wetland/HBBIC

Lab Number: 15132
Field ID: HW #2
Sample Description: Hall Wetland
Matrix: Water
Collect Date: 5/27/2008
Extraction Date: 6/9/2008
Extraction Method: 3535

Report Date: 7/9/2008
Date Analyzed: 6/25/2008
Analyst: CO
Peer Review: MVA
Analytical Method: 525.2

SOC for Walla Walla

CAS ID#	COMPOUNDS	RESULT	Flag	Units	PQL	MDL	D.F.	Batch	COMMENT
2312-35-8	PROPARGITE	ND		ug/L		-	1.0	525X_080609	Qualitative analysis
80-05-7	BISPHENOL-A	0.6		ug/L	0.1	-	1.0	525X_080609	
60-51-5	DIMETHOATE	ND		ug/L	0.5	0.03	1.0		
57837-19-1	METALAXYL	ND		ug/L	0.1	-	1.0		
15299-99-7	NAPROPAMIDE	ND		ug/L	0.1	0.05	1.0		
122-34-9	SIMAZINE	ND		ug/L	0.1	0.03	1.0		
86-86-2	1-NAPHTHALENEACETAMIDE	ND		ug/L	0.5	-	1.0		
333-41-5	DIAZINON	ND		ug/L	0.1	0.04	1.0		
60168-88-9	FENARIMOL	ND		ug/L	0.1	0.03	1.0		
58-89-9	LINDANE (BHC - GAMMA)	ND		ug/L	0.1	0.03	1.0		
7786-34-7	MEVINPHOS	ND		ug/l	0.1	0.03	1.0		
86-50-0	AZINPHOS-METHYL	ND		ug/L	0.5	0.12	1.0		
2921-88-2	CHLORPYRIFOS	ND		ug/L	0.1	0.04	1.0		
72-54-8	4,4-DDD	ND		ug/L	0.1	0.02	1.0		
72-55-9	4,4-DDE	ND		ug/L	0.1	0.02	1.0		
50-29-3	4,4-DDT	ND		ug/L	0.1	0.03	1.0		
115-32-2	DICOFOL	ND		ug/L	1	-	1.0		
121-75-5	MALATHION	ND		ug/L	0.1	0.05	1.0		
298-00-0	METHYL PARATHION	ND		ug/L	0.5	0.1	1.0		
56-38-2	PARATHION-ETHYL	ND		ug/L	0.1	0.05	1.0		
732-11-6	PHOSMET	ND		ug/L	0.5	-	1.0		
43121-43-3	TRIADIMEFON	ND		ug/L	0.1	0.07	1.0		
68694-11-1	TRIFLUMIZOLE	ND		ug/L	1.0	1.0	1.0		
950-37-8	METHIDATHINON	ND		ug/L	0.5	0.5	1.0		
88671-89-0	MYCLOBUTANIL	ND		ug/L	0.5	0.5	1.0		
51235-04-2	HEXAZINONE	ND		ug/L	0.1	0.05	1.0		

Result of: NA - indicates the compound was not analyzed.
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
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WSDOE Lab C1251

DATA REPORT

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

Lab Number: 15133
Field ID: HW #3
Sample Description: Hall Wetland
Matrix: Water
Collect Date: 5/27/2008
Extraction Date: 6/9/2008
Extraction Method: 3535

Reference Number: 08-07095
Project: Locker/Hall Wetland/HBBIC

Report Date: 7/9/2008
Date Analyzed: 6/25/2008
Analyst: CO
Peer Review: MJA
Analytical Method: 525.2

SOC for Walla Walla

CAS ID#	COMPOUNDS	RESULT	Flag	Units	PQL	MDL	D.F.	Batch	COMMENT
2312-35-8	PROPARGITE	ND		ug/L		-	1.0	525X_080609	Qualitative analysis
80-05-7	BISPHENOL-A	ND		ug/L	0.1	-	1.0	525X_080609	
60-51-5	DIMETHOATE	ND		ug/L	0.5	0.03	1.0		
57837-19-1	METALAXYL	ND		ug/L	0.1	-	1.0		
15299-99-7	NAPROPAMIDE	ND		ug/L	0.1	0.05	1.0		
122-34-9	SIMAZINE	ND		ug/L	0.1	0.03	1.0		
86-86-2	1-NAPHTHALENEACETAMIDE	ND		ug/L	0.5	-	1.0		
333-41-5	DIAZINON	ND		ug/L	0.1	0.04	1.0		
60168-88-9	FENARIMOL	ND		ug/L	0.1	0.03	1.0		
58-89-9	LINDANE (BHC - GAMMA)	ND		ug/L	0.1	0.03	1.0		
7786-34-7	MEVINPHOS	ND		ug/L	0.1	0.03	1.0		
86-50-0	AZINPHOS-METHYL	ND		ug/L	0.5	0.12	1.0		
2921-88-2	CHLORPYRIFOS	ND		ug/L	0.1	0.04	1.0		
72-54-8	4,4-DDD	ND		ug/L	0.1	0.02	1.0		
72-55-9	4,4-DDE	ND		ug/L	0.1	0.02	1.0		
50-29-3	4,4-DDT	ND		ug/L	0.1	0.03	1.0		
115-32-2	DICOFOL	ND		ug/L	1	-	1.0		
121-75-5	MALATHION	ND		ug/L	0.1	0.05	1.0		
298-00-0	METHYL PARATHION	ND		ug/L	0.5	0.1	1.0		
56-38-2	PARATHION-ETHYL	ND		ug/L	0.1	0.05	1.0		
732-11-6	PHOSMET	ND		ug/L	0.5	-	1.0		
43121-43-3	TRIADIMEFON	ND		ug/L	0.1	0.07	1.0		
68694-11-1	TRIFLUMIZOLE	ND		ug/L	1.0	1.0	1.0		
950-37-8	METHIDATHINON	ND		ug/L	0.5	0.5	1.0		
88671-89-0	MYCLOBUTANIL	ND		ug/L	0.5	0.5	1.0		
51235-04-2	HEXAZINONE	ND		ug/L	0.1	0.05	1.0		

Result of: NA - indicates the compound was not analyzed.
Flags are data qualifiers. If there are data qualifiers on your report definitions can be found on an accompanying sheet.
ND - indicates the compound was not detected above the PQL or MDL.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 08-07095
Report Date: 07/09/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
200.7-080530A	HARDNESS	70	69.5	mg/L	200.7	101	80-120		LFB	
508_080609	AROCLOR 1260	2.3	2	ug/L	508.1	115	60-140		LFB	
	TETRACHLORO-M-XYLENE (SURR)	93		%	508.1		70-130			
515_080602	2,4 - D	2.08	2	ug/L	515.1	104	70-130		LFB	
	2,4 - DCAA (SURR)	113		%	515.1		70-130			
	2,4 DB	9.55	8	ug/L	515.1	119	70-130			
	2,4,5 - TP (SILVEX)	1.11	1	ug/L	515.1	111	70-130			
	2,4,5 T	1	1	ug/L	515.1	100	70-130			
	ACIFLUORFEN	1.22	1	ug/L	515.1	122	70-130			
	BENTAZON	2.17	2	ug/L	515.1	109	70-130			
	CHLORAMBEN	0.91	1	ug/L	515.1	91	70-130			
	DALAPON	12.5	13	ug/L	515.1	96	70-130			
	DICAMBA	1.03	1	ug/L	515.1	103	70-130			
	DICHLORPROP	2.78	3	ug/L	515.1	93	70-130			
	DINOSEB	2.66	2	ug/L	515.1	133	70-130	AH		
	PENTACHLOROPHENOL	0.99	1	ug/L	515.1	99	70-130			
	PICLORAM	0.95	1	ug/L	515.1	95	70-130			
	TOTAL (DCPA & Metabolites)	1.16	1	ug/L	515.1	116	70-130			
525_080609	1,3-DIMETHYL-2-NITROBENZENE (Surr)	96		%	525.2		70-130		LFB	
	4,4-DDD	1.02	1	ug/L	525.2	102	70-130			
	4,4-DDE	1.03	1	ug/L	525.2	103	70-130			
	4,4-DDT	1.05	1	ug/L	525.2	105	70-130			
	ACENAPHTHYLENE	0.98	1	ug/L	525.2	98	70-130			
	ALACHLOR	2	2	ug/L	525.2	100	70-130			
	ALDRIN	0.98	1	ug/L	525.2	98	70-130			
	ANTHRACENE	0.68	1	ug/L	525.2	68	70-130	CC		
	ATRAZINE	2.09	2	ug/L	525.2	105	70-130			
	BENZ(A)ANTHRACENE	0.92	1	ug/L	525.2	92	70-130			
	BENZO(A)PYRENE	0.75	1	ug/L	525.2	75	70-130			
	BENZO(B)FLUORANTHENE	0.88	1	ug/L	525.2	88	70-130			

*Notation:

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

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 08-07095
Report Date: 07/09/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
525_080609	BENZO(G,H,I)PERYLENE	0.92	1	ug/L	525.2	92	70-130		LFB	
	BENZO(K)FLUORANTHENE	0.96	1	ug/L	525.2	96	70-130			
	BENZYL BUTYL PHTHALATE	1.05	1	ug/L	525.2	105	70-130			
	BROMACIL	1.03	1	ug/L	525.2	103	70-130			
	BUTACHLOR	1.02	1	ug/L	525.2	102	70-130			
	CHLORDANE, TECHNICAL	0.97	1	ug/L	525.2	97	70-130			
	CHRYSENE	1.03	1	ug/L	525.2	103	70-130			
	CYANAZINE	0.85	1	ug/L	525.2	85	70-130			
	DI(ETHYLHEXYL)-ADIPATE	1.04	1	ug/L	525.2	104	70-130			
	DI(ETHYLHEXYL)-PHTHALATE	1.23	1	ug/L	525.2	123	70-130			
	DIAZINON	1	1	ug/L	525.2	100	70-130			
	DIBENZO(A,H)ANTHRACENE	0.96	1	ug/L	525.2	96	70-130			
	DIELDRIN	0.99	1	ug/L	525.2	99	70-130			
	DIETHYL PHTHALATE	1.1	1	ug/L	525.2	110	70-130			
	DIMETHYL PHTHALATE	1.06	1	ug/L	525.2	106	70-130			
	DI-N-BUTYL PHTHALATE	1.14	1	ug/L	525.2	114	70-130			
	ENDRIN	0.96	1	ug/L	525.2	96	70-130			
	EPTC	0.96	1	ug/L	525.2	96	70-130			
	FLUORENE	1.04	1	ug/L	525.2	104	70-130			
	HEPTACHLOR	0.96	1	ug/L	525.2	96	70-130			
	HEPTACHLOR EPOXIDE	0.94	1	ug/L	525.2	94	70-130			
	HEXACHLOROBENZENE	0.97	1	ug/L	525.2	97	70-130			
	HEXACHLOROCYCLO-PENTADIENE	0.92	1	ug/L	525.2	92	70-130			
	INDENO(1,2,3-CD)PYRENE	0.95	1	ug/L	525.2	95	70-130			
	LINDANE (BHC - GAMMA)	0.97	1	ug/L	525.2	97	70-130			
	MALATHION	1.01	1	ug/L	525.2	101	70-130			
	METHOXYCHLOR	1.08	1	ug/L	525.2	108	70-130			
	METOLACHLOR	1.06	1	ug/L	525.2	106	70-130			
	METRIBUZIN	0.81	1	ug/L	525.2	81	70-130			
	PARATHION	0.83	1	ug/L	525.2	83	70-130			
	PENTACHLOROPHENOL	4.87	4	ug/L	525.2	122	70-130			
	PERYLENE-D12 (Surr)	101		%	525.2		70-130			
	PHENANTHRENE	1	1	ug/L	525.2	100	70-130			
	PROPACHLOR	1.02	1	ug/L	525.2	102	70-130			
	PYRENE	1	1	ug/L	525.2	100	70-130			
	PYRENE-D10 (Surr)	94		%	525.2		70-130			

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Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 08-07095
Report Date: 07/09/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
525_080609	SIMAZINE	0.96	1	ug/L	525.2	96	70-130		LFB	
	TERBACIL	0.99	1	ug/L	525.2	99	70-130			
	TRIFLURALIN	0.91	1	ug/L	525.2	91	70-130			
	TRIPHENYLPHOSPHATE (Surr)	100		%	525.2		70-130			
525X_080609	1-NAPHTHALENEACETAMIDE	2.37	2	ug/L	525.2	119	70-130		LFB	
	CHLORPYRIFOS	0.84	1	ug/L	525.2	84	70-130			
	DICOFOL	2.09	2	ug/L	525.2	105	70-130			
	FENARIMOL	0.9	1	ug/L	525.2	90	70-130			
	HEXAZINONE	1.2	1	ug/L	525.2	120	70-130			
	METALAXYL	2.01	2	ug/L	525.2	101	70-130			
	METHIDATHINON	2.16	2	ug/L	525.2	109	85-115			
	MEVINPHOS	0.99	1	ug/L	525.2	99	70-130			
	MYCLOBUTANIL	2.54	2	ug/L	525.2	127	85-115			
	NAPROPAMIDE	0.59	1	ug/L	525.2	59	70-130			
	PHOSMET	2.04	2	ug/L	525.2	102	70-130			
	PROPARGITE	2.16	2	ug/L	525.2	108	85-115			
	TRIADIMEFON	0.73	1	ug/L	525.2	73	70-130			
	TRIFLUMIZOLE	1.68	2	ug/L	525.2	84	85-115			
531_080611	3-HYDROXYCARBOFURAN	9.3	10	ug/L	531.2	93	70-130		LFB	
	ALDICARB	8.5	10	ug/L	531.2	85	70-130			
	ALDICARB SULFONE	8.8	10	ug/L	531.2	88	70-130			
	ALDICARB SULFOXIDE	8.3	10	ug/L	531.2	83	70-130			
	CARBARYL	9.3	10	ug/L	531.2	93	70-130			
	CARBOFURAN	9.4	10	ug/L	531.2	94	70-130			
	METHIOCARB	9.1	10	ug/L	531.2	91	70-130			
	METHOMYL	10	10	ug/L	531.2	100	70-130			
	OXYMAL	9.3	10	ug/L	531.2	93	70-130			
	PROPOXUR (BAYGON)	9.5	10	ug/L	531.2	95	70-130			
531_080611	3-HYDROXYCARBOFURAN	20	20	ug/L	531.2	100	70-130		LFB	
	ALDICARB	19	20	ug/L	531.2	95	70-130			
	ALDICARB SULFONE	19	20	ug/L	531.2	95	70-130			
	ALDICARB SULFOXIDE	18	20	ug/L	531.2	90	70-130			

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Fortified Blank

Reference Number: 08-07095
Report Date: 07/09/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
531_080611	CARBARYL	19.5	20	ug/L	531.2	98	70-130		LFB	
	CARBOFURAN	20	20	ug/L	531.2	100	70-130			
	METHIOCARB	19	20	ug/L	531.2	95	70-130			
	METHOMYL	21	20	ug/L	531.2	105	70-130			
	OXYMAL	19.5	20	ug/L	531.2	98	70-130			
	PROPOXUR (BAYGON)	20	20	ug/L	531.2	100	70-130			
531_080611	3-HYDROXYCARBOFURAN	1	1	ug/L	531.2	100	70-130		LFB	
	ALDICARB	0.6	1	ug/L	531.2	60	70-130			Limits 50-150% at PQL
	ALDICARB SULFONE	0.75	1	ug/L	531.2	75	70-130			
	ALDICARB SULFOXIDE	1	1	ug/L	531.2	100	70-130			
	CARBARYL	0.9	1	ug/L	531.2	90	70-130			
	CARBOFURAN	1	1	ug/L	531.2	100	70-130			
	METHIOCARB	1	1	ug/L	531.2	100	70-130			
	METHOMYL	0.8	1	ug/L	531.2	80	70-130			
	OXYMAL	1	1	ug/L	531.2	100	70-130			
	PROPOXUR (BAYGON)	1	1	ug/L	531.2	100	70-130			
549_080603	PARAQUAT	14.1	20	ug/L	549.2	71	70-130		LFB	
COD_080604	CHEMICAL OXYGEN DEMAND	51	50	mg/L	SM5220 D	102	80-120		LFB	
OPHOS-080526	ORTHO-PHOSPHATE	1.02	1.00	mg/L	SM4500-P F	102	70-130		LFB	
tds_080602	TOTAL DISSOLVED SOLIDS	500	500	mg/L	SM2540 C	100	80-120		LFB	
tds_080602	TOTAL DISSOLVED SOLIDS	488	500	mg/L	SM2540 C	98	80-120		LFB	
tds_080602	TOTAL DISSOLVED SOLIDS	523	500	mg/L	SM2540 C	105	80-120		LFB	

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Laboratory Reagent Blank

Reference Number: 08-07095
Report Date: 07/09/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
200.7-080530A	HARDNESS	ND		mg/L	200.7		10.00000		LRB	
317_080606A	BROMATE	ND		ug/L	317.0		0.00000		LRB	
317_080611A	BROMATE	ND		ug/L	317.0		0.00000		LRB	
317_080612A	BROMATE	ND		ug/L	317.0		0.00000		LRB	
COD_080604	CHEMICAL OXYGEN DEMAND	ND		mg/L	SM5220 D		4.00000		LRB	
I080528A	CHLORIDE	ND		mg/L	300.0		0.10000		LRB	
OPHOS-080528	ORTHO-PHOSPHATE	ND		mg/L	SM4500-P F		0.10000		LRB	

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 08-07095
Report Date: 07/09/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
200.7-080530A	HARDNESS	ND		mg/L	200.7		0.82000		MB	
508_080609	AROCLOR 1016	ND		ug/L	508.1		0.02000		MB	
	AROCLOR 1221	ND		ug/L	508.1		0.12000			
	AROCLOR 1232	ND		ug/L	508.1		0.02000			
	AROCLOR 1242	ND		ug/L	508.1		0.02000			
	AROCLOR 1248	ND		ug/L	508.1		0.02000			
	AROCLOR 1254	ND		ug/L	508.1		0.02000			
	AROCLOR 1260	ND		ug/L	508.1		0.02000			
	TETRACHLORO-M-XYLENE (SURR)	86		%	508.1		0.00000			
515_080602	2,4 - D	ND		ug/L	515.1		0.05000		MB	
	2,4 - DCAA (SURR)	110		%	515.1					
	2,4 DB	ND		ug/L	515.1		0.25000			
	2,4,5 - TP (SILVEX)	ND		ug/L	515.1		0.10000			
	2,4,5 T	ND		ug/L	515.1		0.10000			
	ACIFLUORFEN	ND		ug/L	515.1		0.50000			
	BENTAZON	ND		ug/L	515.1		0.12000			
	CHLORAMBEN	ND		ug/L	515.1		0.20000			
	DALAPON	ND		ug/L	515.1		0.50000			
	DCPA (ACID METABOLITES)	ND		ug/L	515.1		0.10000			
	DICAMBA	ND		ug/L	515.1		0.05000			
	DICHLORPROP	ND		ug/L	515.1		0.12000			
	DINOSEB	ND		ug/L	515.1		0.10000			
	PENTACHLOROPHENOL	ND		ug/L	515.1		0.02000			
	PICLORAM	ND		ug/L	515.1		0.05000			
	TOTAL (DCPA & Metabolites)	ND		ug/L	515.1		0.02000			
525_080609	1,3-DIMETHYL-2-NITROBENZENE (Surr)	97		%	525.2				MB	
	4,4-DDD	ND		ug/L	525.2		0.05000			
	4,4-DDE	ND		ug/L	525.2		0.05000			
	4,4-DDT	ND		ug/L	525.2		0.05000			
	ACENAPHTHENE	ND		ug/L	525.2		0.05000			

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

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525_080609	ALACHLOR	ND		ug/L	525.2		0.02000		MB	
	ALDRIN	ND		ug/L	525.2		0.05000			
	ANTHRACENE	ND		ug/L	525.2		0.05000			
	ATRAZINE	ND		ug/L	525.2		0.02000			
	BENZ(A)ANTHRACENE	ND		ug/L	525.2		0.02000			
	BENZO(A)PYRENE	ND		ug/L	525.2		0.02000			
	BENZO(B)FLUORANTHENE	ND		ug/L	525.2		0.05000			
	BENZO(G,H,I)PERYLENE	ND		ug/L	525.2		0.05000			
	BENZO(K)FLUORANTHENE	ND		ug/L	525.2		0.05000			
	BENZYL BUTYL PHTHALATE	ND		ug/L	525.2		0.60000			
	BROMACIL	ND		ug/L	525.2		0.05000			
	BUTACHLOR	ND		ug/L	525.2		0.10000			
	CHLORDANE, TECHNICAL	ND		ug/L	525.2		0.02000			
	CHRYSENE	ND		ug/L	525.2		0.05000			
	CYANAZINE	ND		ug/L	525.2		0.05000			
	DI(ETHYLHEXYL)-ADIPATE	ND		ug/L	525.2		0.02000			
	DI(ETHYLHEXYL)-PHTHALATE	0.13		ug/L	525.2		0.60000			
	DIAZINON	ND		ug/L	525.2		0.05000			
	DIBENZO(A,H)ANTHRACENE	ND		ug/L	525.2		0.05000			
	DIELDRIN	ND		ug/L	525.2		0.05000			
	DIETHYL PHTHALATE	ND		ug/L	525.2		0.60000			
	DIMETHYL PHTHALATE	ND		ug/L	525.2		0.60000			
	DI-N-BUTYL PHTHALATE	ND		ug/L	525.2		0.60000			
	ENDRIN	ND		ug/L	525.2		0.02000			
	EPTC	ND		ug/L	525.2		0.07000			
	FLUORANTHENE	ND		ug/L	525.2		0.05000			
	FLUORENE	ND		ug/L	525.2		0.05000			
	HEPTACHLOR	ND		ug/L	525.2		0.02000			
	HEPTACHLOR EPOXIDE	ND		ug/L	525.2		0.02000			
	HEXACHLOROBENZENE	ND		ug/L	525.2		0.02000			
	HEXACHLOROCYCLO-PENTADIENE	ND		ug/L	525.2		0.02000			
	INDENO(1,2,3-CD)PYRENE	ND		ug/L	525.2		0.05000			
	LINDANE (BHC - GAMMA)	ND		ug/L	525.2		0.02000			
	MALATHION	ND		ug/L	525.2		0.05000			
	METHOXYCHLOR	ND		ug/L	525.2		0.02000			
	METOLACHLOR	ND		ug/L	525.2		0.25000			

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 08-07095
Report Date: 07/09/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
525_080609	METRIBUZIN	ND		ug/L	525.2		0.05000		MB	
	NAPTHALENE	ND		ug/L	525.2		0.02000			
	PARATHION	ND		ug/L	525.2		0.05000			
	PENTACHLOROPHENOL	ND		ug/L	525.2		0.04000			
	PERYLENE-D12 (Surr)	95		%	525.2					
	PHENANTHRENE	ND		ug/L	525.2		0.05000			
	PROPACHLOR	ND		ug/L	525.2		0.05000			
	PYRENE	ND		ug/L	525.2		0.05000			
	PYRENE-D10 (Surr)	98		%	525.2					
	SIMAZINE	ND		ug/L	526.2		0.02000			
	TERBACIL	ND		ug/L	525.2		0.05000			
	TRIFLURALIN	ND		ug/L	525.2		0.05000			
	TRIPHENYLPHOSPHATE (Surr)	106		%	525.2					
525X_080609	1-NAPHTHALENEACETAMIDE	ND		ug/L	525.2		0.10000		MB	
	AZINPHOS-METHYL	ND		ug/L	525.2		0.00000			
	CHLORPYRIFOS	ND		ug/L	525.2		0.00000			
	DICOFOL	ND		ug/L	525.2		0.00000			
	DIMETHOATE	ND		ug/L	525.2		0.00000			
	FENARIMOL	ND		ug/L	525.2		0.00000			
	HEXAZINONE	ND		ug/L	525.2		0.00000			
	MALATHION	ND		ug/L	525.2		0.05000			
	METALAXYL	ND		ug/L	525.2		0.10000			
	METHIDATHINON	ND		ug/L	525.2		0.50000			
	METHYL PARATHION	ND		ug/L	525.2		0.00000			
	MEVINPHOS	ND		ug/L	525.2		0.00000			
	MYCLOBUTANIL	ND		ug/L	525.2		0.50000			
	NAPROPAMIDE	ND		ug/L	525.2		0.00000			
	PARATHION-ETHYL	ND		ug/L	525.2		0.05000			
	PHOSMET	ND		ug/L	525.2		0.10000			
	PROPARGITE	ND		ug/L	525.2		0.00000			
	TRIADIMEFON	ND		ug/L	525.2		0.00000			
	TRIFLUMIZOLE	ND		ug/L	525.2		1.00000			

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Report Date: 07/09/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
531_080811	3-HYDROXYCARBOFURAN	ND		ug/L	531.2		0.50000		MB	
	ALDICARB	ND		ug/L	531.2		0.25000			
	ALDICARB SULFONE	ND		ug/L	531.2		0.40000			
	ALDICARB SULFOXIDE	ND		ug/L	531.2		0.25000			
	CARBARYL	ND		ug/L	531.2		0.50000			
	CARBOFURAN	ND		ug/L	531.2		0.45000			
	METHIOCARB	ND		ug/L	531.2		1.00000			
	METHOMYL	ND		ug/L	531.2		0.25000			
	OXYMAL	ND		ug/L	531.2		1.00000			
	PROPOXUR (BAYGON)	ND		ug/L	531.2		0.25000			
549_080603	PARAQUAT	ND		ug/L	549.2		0.50000		MB	
ec_080602	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.50000		MB	
ec_080602	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.50000		MB	
ec_080602	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.50000		MB	
ec_080602	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.50000		MB	
ec_080613	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.50000		MB	
ec_080613	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.50000		MB	
ec_080613	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.50000		MB	
ec_080613	ELECTRICAL CONDUCTIVITY	ND		uS/cm	SM2510 B		2.50000		MB	
OPHOS-080528	ORTHO-PHOSPHATE	ND		mg/L	SM4500-P F		0.10000		MB	
tds_080602	TOTAL DISSOLVED SOLIDS	ND		mg/L	SM2540 C		2.50000		MB	
tds_080602	TOTAL DISSOLVED SOLIDS	ND		mg/L	SM2540 C		2.50000		MB	

*Notation:

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

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

MB or LRB: Method Blank or Laboratory Reagent Blank, an aliquot of reagent matrix is analyzed exactly like a sample, and its purpose is to determine if there is background contamination.

EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
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Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Method Blank

Reference Number: 08-07095
Report Date: 07/09/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
tds_080802	TOTAL DISSOLVED SOLIDS	ND		mg/L	SM2540 C		2.50000		MB	
turb_080528	TURBIDITY	ND		NTU	180.1		0.02000		MB	

*Notation:

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 08-07095
Report Date: 07/09/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	QC Limits	Qualifier	Type*	Comment
200.7-080530A	HARDNESS	129	132.3	mg/L	200.7	98	80-120		QCS	
317_080606A	BROMATE	38.2	40.8	ug/L	317.0	94	70-130		QCS	
317_080611A	BROMATE	37.8	40.8	ug/L	317.0	93	70-130		QCS	
317_080612A	BROMATE	39	40.8	ug/L	317.0	96	70-130		QCS	
531_080611	3-HYDROXYCARBOFURAN	36.7	34.2	ug/L	531.2	107	70-130		QCS	
	ALDICARB	27.4	26	ug/L	531.2	105	70-130			
	ALDICARB SULFONE	33.8	30	ug/L	531.2	113	70-130			
	ALDICARB SULFOXIDE	18.5	16.6	ug/L	531.2	111	70-130			
	CARBARYL	32.4	30	ug/L	531.2	108	70-130			
	CARBOFURAN	104	100	ug/L	531.2	104	70-130			
	METHIOCARB	65.6	90.1	ug/L	531.2	73	70-130			
	METHOMYL	60	60.1	ug/L	531.2	100	70-130			
	OXYMAL	46.7	44.2	ug/L	531.2	106	70-130			
	PROPOXUR (BAYGON)	83.9	80.3	ug/L	531.2	104	70-130			
549_080603	PARAQUAT	3.2	4.8	ug/L	549.2	67	70-130		QCS	
COD_080604	CHEMICAL OXYGEN DEMAND	138	133	mg/L	SM5220 D	104	80-120		QCS	
ec_080602	ELECTRICAL CONDUCTIVITY	175	169	uS/cm	SM2510 B	104	80-120		QCS	
ec_080602	ELECTRICAL CONDUCTIVITY	175	169	uS/cm	SM2510 B	104	80-120		QCS	
ec_080602	ELECTRICAL CONDUCTIVITY	173	169	uS/cm	SM2510 B	102	80-120		QCS	
ec_080602	ELECTRICAL CONDUCTIVITY	172	169	uS/cm	SM2510 B	102	80-120		QCS	

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SAMPLE INDEPENDENT QUALITY CONTROL REPORT

Quality Control Sample

Reference Number: 08-07095
Report Date: 07/09/08

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier	Type*	Comment
ec_080613	ELECTRICAL CONDUCTIVITY	168	169	uS/cm	SM2510 B	99	80-120		QCS	
ec_080613	ELECTRICAL CONDUCTIVITY	168	169	uS/cm	SM2510 B	99	80-120		QCS	
ec_080613	ELECTRICAL CONDUCTIVITY	168	169	uS/cm	SM2510 B	99	80-120		QCS	
ec_080613	ELECTRICAL CONDUCTIVITY	168	169	uS/cm	SM2510 B	99	80-120		QCS	
I080528A	CHLORIDE	29.1	30.0	mg/L	300.0	97	80-120		QCS	
OPHOS-080528	ORTHO-PHOSPHATE	0.50	0.49	mg/L	SM4500-P F	102	70-130		QCS	
ph_080528	HYDROGEN ION (pH)	8.09	8.00	pH Units	SM4500-H+ B	101	80-120		QCS	
	HYDROGEN ION (pH)	8.20	8.00	pH Units	SM4500-H+ B	103	80-120			
ph_080528	HYDROGEN ION (pH)	8.19	8.00	pH Units	SM4500-H+ B	102	80-120		QCS	
turb_080528	TURBIDITY	1.00	1.00	NTU	180.1	100	70-130		QCS	

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QUALITY CONTROL REPORT

Duplicate and Matrix Spike/Matrix Spike Duplicate Report

Reference Number: 08-07095

Report Date: 7/9/2008

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
200.7-080530A									
	15125	HARDNESS	156	156	mg CaCO3/L	0.0	0-45	DUP	
	15169	HARDNESS	79.8	81.1	mg CaCO3/L	1.6	0-45	DUP	
317_080606A									
317_080611A									
317_080612A									
	15036	BROMATE	6.5	6.7	ug/L	3.0	0-50	DUP	
515_080602									
525_080609									
	15132	1,3-DIMETHYL-2-NITROBENZENE (Surr	96	96	%	2.1	0-45	DUP	
	15132	PYRENE-D10 (Surr)	96	96	%	0.0	0-45	DUP	
	15132	PERYLENE-D12 (Surr)	103	102	%	1.0	0-45	DUP	
	15132	TRIPHENYLPHOSPHATE (Surr)	108	112	%	3.6	0-45	DUP	
	15132	1,3-DIMETHYL-2-NITROBENZENE (Surr	98	96	%	2.1	0-45	DUP	
	15132	PYRENE-D10 (Surr)	96	96	%	0.0	0-45	DUP	
	15132	PERYLENE-D12 (Surr)	103	102	%	1.0	0-45	DUP	
	15132	TRIPHENYLPHOSPHATE (Surr)	108	112	%	3.6	0-45	DUP	
525X_080609									
	15132	BISPHENOL-A	0.6	0.6	ug/L	0.0	0-20	DUP	
COD_080604									
	15260	CHEMICAL OXYGEN DEMAND	8900	8850	mg/L	0.6	0-45	DUP	
EC_080602									
	15127	ELECTRICAL CONDUCTIVITY	129	129	uS/cm	0.0	0-45	DUP	
	15147	ELECTRICAL CONDUCTIVITY	400	403	uS/cm	0.7	0-45	DUP	
	15483	ELECTRICAL CONDUCTIVITY	732	732	uS/cm	0.0	0-45	DUP	
EC_080613									
	16628	ELECTRICAL CONDUCTIVITY	301	301	uS/cm	0.0	0-45	DUP	

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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 a 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.

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Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	%RPD	Limits	QC Qualifier	Comments
	16978	ELECTRICAL CONDUCTIVITY	237	237	uS/cm	0.0	0-45	DUP	
	17042	ELECTRICAL CONDUCTIVITY	744	743	uS/cm	0.1	0-45	DUP	
I080528A									
	15147	CHLORIDE	31	31	mg/L	0.0	0-45	DUP	
	15169	CHLORIDE	26	26	mg/L	0.0	0-45	DUP	
NO3NO2-080528									
	15050	NITRATE-N	0.54	0.54	mg/L	0.0	0-20	DUP	
	15060	NITRATE-N	0.04	0.04	mg/L	0.0	0-20	DUP	
	15133	NITRATE-N	1.11	1.10	mg/L	0.9	0-20	DUP	
OPHOS-080528									
	15060	ORTHO-PHOSPHATE	0.32	0.33	mg/L	3.1	0-50	DUP	
	15128	ORTHO-PHOSPHATE	0.12	0.12	mg/L	0.0	0-50	DUP	
	15133	ORTHO-PHOSPHATE	0.23	0.23	mg/L	0.0	0-50	DUP	
PH_080528									
	15131	HYDROGEN ION (pH)	6.75	6.70	pH Units	0.7	0-45	DUP	
	15169	HYDROGEN ION (pH)	8.10	8.08	pH Units	0.2	0-45	DUP	
TDS_080602									
	15133	TOTAL DISSOLVED SOLIDS	120	117	mg/L	2.5	0-45	DUP	
	15509	TOTAL DISSOLVED SOLIDS	50	53	mg/L	5.8	0-45	DUP	
TURB_080528									
	15133	TURBIDITY	8.45	8.22	NTU	2.8	0-50	DUP	
	15147	TURBIDITY	4.74	5.15	NTU	8.3	0-50	DUP	

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EDGE ANALYTICAL LABORATORIES

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Comments
200.7-080530A														
	15125	HARDNESS	156	220	221	69.5	mg CaCO3/L	92	94	80-120	1.6	0-60		LFM
	15169	HARDNESS	79.8	146	146	69.5	mg CaCO3/L	95	95	80-120	0.0	0-60		LFM
317_080606A														
	14879	BROMATE	ND	9.3		10.0	ug/L	93	NA	70-130	NA	0-50		LFM
317_080611A														
	15130	BROMATE	ND	7.6		10	ug/L	76	NA	70-130	NA	0-50		LFM
317_080612A														
	15036	BROMATE	6.5	18		10	ug/L	115	NA	70-130	NA	0-50		LFM
	15512	BROMATE	ND	10.9		10	ug/L	109	NA	70-130	NA	0-50		LFM
515_080602														
	14221	2,4 - D	ND	2.16		2	ug/L	108	NA	65-135	NA	0-60		LFM
	14221	2,4,5 - TP (SILVEX)	ND	1.19		1	ug/L	119	NA	65-135	NA	0-60		LFM
	14221	PENTACHLOROPHENOL	ND	1.06		1	ug/L	106	NA	65-135	NA	0-60		LFM
	14221	DALAPON	ND	12.1		13	ug/L	93	NA	65-135	NA	0-60		LFM
	14221	DINOSEB	ND	2.81		2	ug/L	141	NA	65-135	NA	0-60	AH	LFM
	14221	PICLORAM	ND	0.96		1	ug/L	96	NA	65-135	NA	0-60		LFM
	14221	DICAMBA	ND	1.05		1	ug/L	105	NA	65-135	NA	0-60		LFM
	14221	TOTAL (DCPA & Metabolites)	ND	1.19		1	ug/L	119	NA	65-135	NA	0-60		LFM
	14221	2,4 DB	ND	10.6		8	ug/L	133	NA	65-135	NA	0-60		LFM
	14221	2,4,5 T	ND	1.06		1	ug/L	106	NA	65-135	NA	0-60		LFM
	14221	BENTAZON	ND	2.26		2	ug/L	113	NA	65-135	NA	0-60		LFM
	14221	DICHLORPROP	ND	2.89		3	ug/L	96	NA	65-135	NA	0-60		LFM
	14221	ACIFLUORFEN	ND	1.29		1	ug/L	129	NA	65-135	NA	0-60		LFM
	14221	CHLORAMBEN	ND	0.76		1	ug/L	76	NA	65-135	NA	0-50		LFM
	14221	2,4 - DCAA (SURR)	108	116			%		NA	70-130	NA	0-60		LFM
525_080609														
	15133	ENDRIN	ND	0.99		1	ug/L	99	NA	70-130	NA	0-60		LFM
	15133	LINDANE (BHC - GAMMA)	ND	1		1	ug/L	100	NA	70-130	NA	0-60		LFM
	15133	METHOXYCHLOR	ND	1.14		1	ug/L	114	NA	70-130	NA	0-60		LFM
	15133	ALACHLOR	ND	2.08		2	ug/L	104	NA	70-130	NA	0-60		LFM
	15133	ATRAZINE	ND	2.25		2	ug/L	113	NA	70-130	NA	0-60		LFM
	15133	BENZO(A)PYRENE	ND	0.75		1	ug/L	75	NA	70-130	NA	0-60		LFM
	15133	CHLORDANE, TECHNICAL	ND	1.02		1	ug/L	102	NA	70-130	NA	0-60		LFM
	15133	DI(ETHYLHEXYL)-ADIPATE	ND	1.09		1	ug/L	109	NA	70-130	NA	0-60		LFM

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Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier		Comments
	15133	DI(ETHYLHEXYL)-PHTHALATE	ND	1.33		1	ug/L	133	NA	70-130	NA	0-60	BQ	LFM	
	15133	HEPTACHLOR	ND	1.02		1	ug/L	102	NA	70-130	NA	0-60		LFM	
	15133	HEPTACHLOR EPOXIDE	ND	0.98		1	ug/L	98	NA	70-130	NA	0-60		LFM	
	15133	HEXACHLOROBENZENE	ND	1.05		1	ug/L	105	NA	70-130	NA	0-60		LFM	
	15133	HEXACHLOROCYCLO-PENTADIENE	ND	1.1		1	ug/L	110	NA	70-130	NA	0-60		LFM	
	15133	SIMAZINE	ND	1.02		1	ug/L	102	NA	70-130	NA	0-60		LFM	
	15133	PENTACHLOROPHENOL	ND	5.3		4	ug/L	133	NA	70-130	NA	0-50		LFM	
	15133	ALDRIN	ND	0.96		1	ug/L	96	NA	70-130	NA	0-60		LFM	
	15133	BUTACHLOR	ND	1.08		1	ug/L	108	NA	70-130	NA	0-60		LFM	
	15133	DIELDRIN	ND	1.02		1	ug/L	102	NA	70-130	NA	0-60		LFM	
	15133	METOLACHLOR	ND	1.06		1	ug/L	106	NA	70-130	NA	0-60		LFM	
	15133	METRIBUZIN	ND	0.93		1	ug/L	93	NA	70-130	NA	0-60		LFM	
	15133	PROPACHLOR	ND	1.11		1	ug/L	111	NA	70-130	NA	0-60		LFM	
	15133	BROMACIL	ND	1.12		1	ug/L	112	NA	70-130	NA	0-60		LFM	
	15133	TERBACIL	ND	1.1		1	ug/L	110	NA	70-130	NA	0-60		LFM	
	15133	DIAZINON	ND	1.07		1	ug/L	107	NA	70-130	NA	0-60		LFM	
	15133	SIMAZINE	ND	1.02		1	ug/L	102	NA	70-130	NA	0-60		LFM	
	15133	EPTC	ND	1.01		1	ug/L	101	NA	70-130	NA	0-60		LFM	
	15133	DIAZINON	ND	1.07		1	ug/L	107	NA	70-130	NA	0-60		LFM	
	15133	4,4-DDD	ND	1.06		1	ug/L	106	NA	70-130	NA	0-60		LFM	
	15133	4,4-DDE	ND	1.04		1	ug/L	104	NA	70-130	NA	0-60		LFM	
	15133	LINDANE (BHC - GAMMA)	ND	1		1	ug/L	100	NA	70-130	NA	0-60		LFM	
	15133	4,4-DDT	ND	1.08		1	ug/L	108	NA	70-130	NA	0-60		LFM	
	15133	CYANAZINE	ND	0.89		1	ug/L	89	NA	70-130	NA	0-60		LFM	
	15133	MALATHION	ND	1.1		1	ug/L	110	NA	70-130	NA	0-60		LFM	
	15133	PARATHION	ND	0.98		1	ug/L	98	NA	70-130	NA	0-60		LFM	
	15133	TRIFLURALIN	ND	1.06		1	ug/L	106	NA	70-130	NA	0-60		LFM	
	15133	4,4-DDD	ND	1.06		1	ug/L	106	NA	70-130	NA	0-60		LFM	
	15133	4,4-DDE	ND	1.04		1	ug/L	104	NA	70-130	NA	0-60		LFM	
	15133	4,4-DDT	ND	1.08		1	ug/L	108	NA	70-130	NA	0-60		LFM	
	15133	MALATHION	ND	1.1		1	ug/L	110	NA	70-130	NA	0-60		LFM	
	15133	PARATHION-ETHYL	ND	0.98		1	ug/L	98	NA	70-130	NA	0-60		LFM	
	15133	FLUORENE	ND	1.11		1	ug/L	111	NA	70-130	NA	0-60		LFM	
	15133	ACENAPHTHYLENE	ND	1.02		1	ug/L	102	NA	70-130	NA	0-60		LFM	
	15133	ANTHRACENE	ND	0.48		1	ug/L	48	NA	70-130	NA	0-60	CC	LFM	
	15133	BENZ(A)ANTHRACENE	ND	0.91		1	ug/L	91	NA	70-130	NA	0-60		LFM	

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Only Duplicate sample with detections are listed in this report

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Comments
	15133	BENZO(B)FLUORANTHENE	ND	0.96		1	ug/L	96	NA	70-130	NA	0-60		LFM
	15133	BENZO(G,H,I)PERYLENE	ND	1		1	ug/L	100	NA	70-130	NA	0-60		LFM
	15133	BENZO(K)FLUORANTHENE	ND	1.02		1	ug/L	102	NA	70-130	NA	0-60		LFM
	15133	CHRYSENE	ND	1.07		1	ug/L	107	NA	70-130	NA	0-60		LFM
	15133	DIBENZO(A,H)ANTHRACENE	ND	1.01		1	ug/L	101	NA	70-130	NA	0-60		LFM
	15133	INDENO(1,2,3-CD)PYRENE	ND	1.04		1	ug/L	104	NA	70-130	NA	0-60		LFM
	15133	PHENANTHRENE	ND	1.04		1	ug/L	104	NA	70-130	NA	0-60		LFM
	15133	PYRENE	ND	1.04		1	ug/L	104	NA	70-130	NA	0-60		LFM
	15133	BENZYL BUTYL PHTHALATE	ND	1.11		1	ug/L	111	NA	70-130	NA	0-60		LFM
	15133	DI-N-BUTYL PHTHALATE	ND	1.23		1	ug/L	123	NA	70-130	NA	0-60		LFM
	15133	DIETHYL PHTHALATE	ND	1.2		1	ug/L	120	NA	70-130	NA	0-60		LFM
	15133	DIMETHYL PHTHALATE	ND	1.1		1	ug/L	110	NA	70-130	NA	0-60		LFM
	15133	1,3-DIMETHYL-2-NITROBENZENE (Surr	98	98			%		NA	70-130	NA	0-60		LFM
	15133	PYRENE-D10 (Surr)	95	94			%		NA	70-130	NA	0-60		LFM
	15133	PERYLENE-D12 (Surr)	102	99			%		NA	70-130	NA	0-60		LFM
	15133	TRIPHENYLPHOSPHATE (Surr)	108	102			%		NA	70-130	NA	0-60		LFM
525X_080609														
	15133	PROPARGITE	ND	2.3		2	ug/L	115	NA	70-130	NA	0-50		LFM
	15133	METALAXYL	ND	2.06		2	ug/L	103	NA	70-130	NA	0-50		LFM
	15133	NAPROPAMIDE	ND	0.61		1	ug/L	61	NA	70-130	NA	0-50		LFM
	15133	1-NAPHTHALENEACETAMIDE	ND	2.64		2	ug/L	132	NA	70-130	NA	0-50		LFM
	15133	FENARIMOL	ND	0.99		1	ug/L	99	NA	70-130	NA	0-50		LFM
	15133	MEVINPHOS	ND	1.08		2	ug/L	54	NA	70-130	NA	0-50		LFM
	15133	CHLORPYRIFOS	ND	0.94		1	ug/L	94	NA	70-130	NA	0-50		LFM
	15133	DICOFOL	ND	2.24		2	ug/L	112	NA	70-130	NA	0-50		LFM
	15133	PHOSMET	ND	2.26		2	ug/L	113	NA	70-130	NA	0-50		LFM
	15133	TRIADIMEFON	ND	0.8		1	ug/L	80	NA	70-130	NA	0-50		LFM
	15133	TRIFLUMIZOLE	ND	1.81		2	ug/L	91	NA	70-130	NA	0-50		LFM
	15133	METHIDATHINON	ND	2.32		2	ug/L	116	NA	70-130	NA	0-50		LFM
	15133	MYCLOBUTANIL	ND	2.65		2	ug/L	133	NA	70-130	NA	0-50		LFM
	15133	HEXAZINONE	ND	1.25		1	ug/L	125	NA	70-130	NA	0-50		LFM
531_080611														
	13899	OXYMAL	ND	6.7		10	ug/L	67	NA	70-130	NA	0-50		LFM
	13899	CARBOFURAN	ND	8.8		10	ug/L	88	NA	70-130	NA	0-50		LFM
	13899	ALDICARB SULFOXIDE	ND	7.8		10	ug/L	78	NA	70-130	NA	0-50		LFM
	13899	ALDICARB SULFONE	ND	8.5		10	ug/L	85	NA	70-130	NA	0-50		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 a 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

Reference Number: 08-07095
Report Date: 7/9/2008

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Comments
	13899	METHOMYL	ND	9.4		10	ug/L	94	NA	70-130	NA	0-50	LFM	
	13899	3-HYDROXYCARBOFURAN	ND	8.9		10	ug/L	89	NA	70-130	NA	0-50	LFM	
	13899	ALDICARB	ND	8		10	ug/L	80	NA	70-130	NA	0-50	LFM	
	13899	CARBARYL	ND	8.8		10	ug/L	88	NA	70-130	NA	0-50	LFM	
	13899	PROPOXUR (BAYGON)	ND	9		10	ug/L	90	NA	70-130	NA	0-50	LFM	
	13899	METHIOCARB	ND	8.1		10	ug/L	81	NA	70-130	NA	0-50	LFM	
	15128	OXYMAL	ND	8.5	7.6	10	ug/L	85	76	70-130	11.2	0-50	LFM	
	15128	CARBOFURAN	ND	8.8	7.9	10	ug/L	88	79	70-130	10.8	0-50	LFM	
	15128	ALDICARB SULFOXIDE	ND	7.8	7	10	ug/L	78	70	70-130	10.8	0-50	LFM	
	15128	ALDICARB SULFONE	ND	8.7	7.2	10	ug/L	87	72	70-130	18.9	0-50	LFM	
	15128	METHOMYL	ND	8.8	8.2	10	ug/L	88	82	70-130	7.1	0-50	LFM	
	15128	3-HYDROXYCARBOFURAN	ND	9.6	8.6	10	ug/L	96	86	70-130	11.0	0-50	LFM	
	15128	ALDICARB	ND	8.3	7	10	ug/L	83	70	70-130	17.0	0-50	LFM	
	15128	CARBARYL	ND	8.8	7.6	10	ug/L	88	76	70-130	14.6	0-50	LFM	
	15128	PROPOXUR (BAYGON)	ND	9.3	7.9	10	ug/L	93	79	70-130	16.3	0-50	LFM	
	15128	METHIOCARB	ND	8.6	7.4	10	ug/L	86	74	70-130	15.0	0-50	LFM	
COD_080604														
	15131	CHEMICAL OXYGEN DEMAND	ND	57	57	50	mg/L	114	114	80-120	0.0	0-60	LFM	
	15260	CHEMICAL OXYGEN DEMAND	8900	11300	11300	2500	mg/L	96	96	80-120	0.0	0-60	LFM	
I080528A														
	15147	CHLORIDE	31	32		1.00	mg/L	100	NA	80-120	NA	0-60	LFM	
	15169	CHLORIDE	26	47		20.00	mg/L	105	NA	80-120	NA	0-60	LFM	
NO3NO2-080528														
	15050	NITRATE-N	0.54	1.56	1.54	1.00	mg/L	102	100	90-110	2.0	0-50	LFM	
	15060	NITRATE-N	0.04	1.07	1.05	1.00	mg/L	103	101	90-110	2.0	0-50	LFM	
	15061	NITRATE-N	0.56	1.59	1.56	1.00	mg/L	103	100	90-110	3.0	0-50	LFM	
	15133	NITRATE-N	1.11	2.11	2.09	1.00	mg/L	100	98	90-110	2.0	0-50	LFM	
OPHOS-080528														
	15050	ORTHO-PHOSPHATE	ND	1.09	1.06	1.00	mg/L	109	106	70-130	2.8	0-50	LFM	
	15060	ORTHO-PHOSPHATE	0.32	1.39	1.36	1.00	mg/L	107	104	70-130	2.8	0-50	LFM	
	15128	ORTHO-PHOSPHATE	0.12	1.17	1.16	1.00	mg/L	105	104	70-130	1.0	0-50	LFM	
	15133	ORTHO-PHOSPHATE	0.23	1.27	1.30	1.00	mg/L	104	107	70-130	2.8	0-50	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 a 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

EDGE ANALYTICAL LABORATORIES

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 08-07095
Report Date: 07/09/08

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
515_080602						
15124	2,4 - DCAA (SURR)	108		%	515.1	Acceptance Range is 70 - 130%
508_080609						
15124	TETRACHLORO-M-XYLENE (SURR)	86		%	508.1	Acceptance Limits 70%-130%
525_080609						
15124	1,3-DIMETHYL-2-NITROBENZENE (Surr)	100		%	525.2	Acceptance Range is 70% to 130%
	PYRENE-D10 (Surr)	96		%		Acceptance Range is 70% to 130%
	PERYLENE-D12 (Surr)	106		%		Acceptance Range is 70% to 130%
	TRIPHENYLPHOSPHATE (Surr)	108		%		Acceptance Range is 70% to 130%
515_080602						
15125	2,4 - DCAA (SURR)	112		%	515.1	Acceptance Range is 70 - 130%
515_080602						
15126	2,4 - DCAA (SURR)	107		%	515.1	Acceptance Range is 70 - 130%
515_080602						
15127	2,4 - DCAA (SURR)	109		%	515.1	Acceptance Range is 70 - 130%
515_080602						
15128	2,4 - DCAA (SURR)	108		%	515.1	Acceptance Range is 70 - 130%
515_080602						
15129	2,4 - DCAA (SURR)	105		%	515.1	Acceptance Range is 70 - 130%
515_080602						
15130	2,4 - DCAA (SURR)	117		%	515.1	Acceptance Range is 70 - 130%
515_080602						
15131	2,4 - DCAA (SURR)	117		%	515.1	Acceptance Range is 70 - 130%
508_080609						
15131	TETRACHLORO-M-XYLENE (SURR)	80		%	508.1	Acceptance Limits 70%-130%
525_080609						
15131	1,3-DIMETHYL-2-NITROBENZENE (Surr)	99		%	525.2	Acceptance Range is 70% to 130%
	PYRENE-D10 (Surr)	93		%		Acceptance Range is 70% to 130%
	PERYLENE-D12 (Surr)	103		%		Acceptance Range is 70% to 130%
	TRIPHENYLPHOSPHATE (Surr)	110		%		Acceptance Range is 70% to 130%
515_080602						
15132	2,4 - DCAA (SURR)	107		%	515.1	Acceptance Range is 70 - 130%
508_080609						
15132	TETRACHLORO-M-XYLENE (SURR)	82		%	508.1	Acceptance Limits 70%-130%
525_080609						
15132	1,3-DIMETHYL-2-NITROBENZENE (Surr)	98		%	525.2	Acceptance Range is 70% to 130%
	PYRENE-D10 (Surr)	96		%		Acceptance Range is 70% to 130%
	PERYLENE-D12 (Surr)	103		%		Acceptance Range is 70% to 130%
	TRIPHENYLPHOSPHATE (Surr)	108		%		Acceptance Range is 70% to 130%
515_080602						
15133	2,4 - DCAA (SURR)	112		%	515.1	Acceptance Range is 70 - 130%
508_080609						
15133	TETRACHLORO-M-XYLENE (SURR)	80		%	508.1	Acceptance Limits 70%-130%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 08-07095
Report Date: 07/09/08

Lab No	Analyte	Result	Qualifier	Units	Method	Limit
525_080609						
15133	1,3-DIMETHYL-2-NITROBENZENE (Surr)	98		%	525.2	Acceptance Range is 70% to 130%
	PYRENE-D10 (Surr)	95		%		Acceptance Range is 70% to 130%
	PERYLENE-D12 (Surr)	102		%		Acceptance Range is 70% to 130%
	TRIPHENYLPHOSPHATE (Surr)	108		%		Acceptance Range is 70% to 130%

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

Qualifier Definitions

Reference Number: 08-07095
Report Date: 07/09/08

Qualifier	Definition
AH	Result was high for this analyte in the end standard, indicating an increase in detector response. No detection of this analyte was found in samples, therefore no further action taken.
BQ	Indicates that an analyte has been detected in the laboratory method blank. This flag denotes possible contribution of laboratory background.
CC	Continuing calibration check standard was within acceptance limits. Low recovery for a PAH may possibly be a result of photo-degradation.

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

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

5214

Report to:	Walla Walla Basin Watershed Cour	Bill to:	Walla Walla Basin Watershed Counc
Ship Address:	810 S Main Street	Address:	810 S Main Street
City:	Milton-Freewat St: OR Zip: 97862	City:	Milton-Freewat St: OR Zip: 97862
Attn:	Bob Bower	Phone:	FAX:
Phone:	541.938-2170 FAX:	P.O.#:	Attn:
Email:		☐ Visa ☐ M/C ☐ A/E	Expires /
Project	Locher / Hall Wetland / HBDIC	Card#:	

For Lab Use Only
Ref #

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

ANALYTICAL LABORATORIES
1620 S. Walnut St.
Burlington, WA 98233
1.800.755.9295

805 W. Orchard Dr. Suite 4
Bellingham, WA 98225

Instructions
1. Use one line per sample.
2. Be specific in analysis requests.
3. Check off analyses to be performed for each sample.
4. Enter number of containers.

Turn Around Time Required
- ☒ Standard
- ☐ Half-time (50% surcharge)
- ☐ Quickest (100% surcharge)
- ☐ Other

Analyses Requested

CO005214

	Field ID	Location	Grab/ Comp.	Matrix	Date	Time	531	Bromate	Hardness	NO3, COD	SOC Package	TDS, Cl, O-Phos,pH,Turb,Ec	525		Number of Containers	Special Instructions Conditions on Receipt
1	HBDIC ORS1	HBDIC	\	\	5/27/08	7:30	☑	☑	☑	☑	☒	☑	☒	☐	9	
2	L-1	Locher Rd				8:15	☑	☑	☑	☑	☐	☑	☒	☐	6	
3	L-2	Locher Rd				8:45	☒	☒	☒	☒	☐	☒	☒	☐	6	
4	L-3	Locher Rd				9:25	☒	☒	☒	☒	☐	☒	☒	☐	6	
5	L-Intake	Locher Rd				9:45	☒	☒	☒	☒	☐	☒	☒	☐	6	
6	L-S1	mud Creek				10:00	☒	☒	☒	☒	☐	☒	☒	☐	6	
7	L-S2	mud Creek				10:30	☒	☒	☒	☒	☐	☒	☒	☐	6	
8	HW #1	Hall Wetland				11:13	☒	☒	☒	☒	☒	☒	☒	☐	9	
9	HW #2	Hall Wetland				11:40	☒	☒	☒	☒	☒	☒	☒	☐	9	
10	HW #3	Hall Wetland			↓	10:45	☒	☒	☒	☒	☒	☒	☒	☐	9	

Sampled by: T. Baker Phone: (541) 938-2170 FAX: Email: tom.baker@wwbwc.org Total Containers ✓

Sample Receipt Request (Must include FAX or Email) ☐

08-07095
15124 - 15133

Relinquished by	Date	Time	Received by	Date	Time
			L. Kennaugh	5-28-08	

	Yes	No	N/A
Custody seals intact	☐	☐	☐
Sample temp 3 C satisfactory	☐	☐	☐
Samples received intact	☐	☐	
Chain of custody & labels agree	☐	☐	

C.O

525's NOT preserved with HCL - okay per

EDGE ANALYTICAL LABORATORIES

Burlington WA | 1620 S Walnut St - 98233
Corporate Office | 800.755.9295 • 360.757.1400 • 360.757.1402fax
Bellingham WA | 805 Orchard Dr Suite 4 - 98225
Microbiology | 360.671.0688 • 360.671.1577fax

July 9, 2008

Bob Bower
Walla Walla Basin Watershed Council
810 S Main Street
Milton-Freewater, OR 97862

RE: 08-07095 - Locker/Hall Wetland/HBBIC

Dear Bob Bower,

Your project: Locker/Hall Wetland/HBBIC, was received on Wednesday May 28, 2008.
All samples were analyzed within the accepted holding times, were appropriately preserved and were analyzed according to approved analytical protocols. The quality control data was within laboratory acceptance limits, unless specified in the QA reports.

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

Respectfully Submitted,

Lawrence J Henderson, PhD
Director of Laboratories

Enclosures Data Report
QC Reports
Chain of Custody