



Environmental Functional Area

Environmental Support and Programmatic Outreach Group

LLNL-AR-411431-16-3

LLNL Experimental Test Site, Site 300 Compliance Monitoring Report for Waste Discharge Requirement (WDR) Order No. R5-2008-0148

Second Semester/Annual Report 2015

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**Lawrence Livermore
National Laboratory**

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- Mechanical Equipment Discharge Effluent Monitoring for Buildings 806A and 827A, 827C, 827D, and 827E Mechanical Equipment Room and Cooling Tower Percolation Pit Inspection Forms

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Certification

I certify that the work presented in this report was performed under my supervision. To the best of my knowledge, the data contained herein are true and accurate, and the work was performed in accordance with professional standards.



Richard G. Blake *2/11/16*

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List of Abbreviations and Acronyms

3CMP	samples collected at Site 300 for Compliance Monitoring Program
3EMG	samples collected at Site 300 for the Environmental Support & Programmatic Outreach (ESPO) Group
3GIV	samples collected at Site 300 for site investigations
3VES	three casing volumes purged using an electric submersible pump
BCLABS-BAK	BC Laboratories, Inc. in Bakersfield, CA
BOD	biochemical oxygen demand
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CMP	Compliance Monitoring Program (conducted under CERCLA)
CMR	Compliance Monitoring Report (prepared under CERCLA)
CoC	chain-of-custody form
CVRWQCB	Central Valley Regional Water Quality Control Board
DO	dissolved oxygen
DSWP	sewage percolation pond influent sampling location
DTW	depth to (ground) water
EC	electrical conductivity, or specific conductance (SC)
EFA	Environmental Functional Area
ESWP	sampling location within sewage evaporation pond
GF	Grundfos pump
FRUITGROWL	FGL Environmental Laboratories in Stockton, CA
ft	feet
gal	gallons
gpm	gallons per minute (measurement of flow)
GWE	ground water elevation (above mean sea level)
HSU	hydrostratigraphic unit
ID	identification number
ISWP	sewage evaporation pond influent sampling location
LLNL	Lawrence Livermore National Laboratory
MCL	maximum contaminant level (for drinking water)
mL	milliliters

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List of Abbreviations and Acronyms (Continued)

MPN	most probable number
MRP	monitoring and reporting program
mV	millivolts (measure of oxidation-reduction potential)
NA	not applicable
ND	none detected, or not detected
NO ₃	nitrate
NR	analysis not required by Permit at this sampling location
pH	measure of the acidity or alkalinity of a solution
OG	off gassing measured by scale of 1-5, 5 being high amounts of off gassing
OU	Operable Unit under CERCLA
Q	flow rate, or number of well volumes purged (according to context)
Qal	Quaternary Age alluvial deposits
QC	quality control
Qt	Quaternary Age terrace deposits
RHWM	Radioactive and Hazardous Waste Management
SC	specific conductance, or electrical conductivity (same as EC)
SHO	short analytical holding time (such as samples for coliform bacteria analyses)
VOA	samples collected for analysis of volatile organic compounds
WDR	waste discharge requirements (Permit)

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Executive Summary

Under authority of the State of California, and required by the Porter-Cologne Water Quality Control Act, the Central Valley Regional Water Quality Control Board (CVRWQCB) issued Order No. R5-2008-0148 for the Experimental Test Site (Site 300), to Lawrence Livermore National Laboratory (LLNL). Monitoring and Reporting Program (MRP) Number R5-2008-0148 was adopted in September 2008, and revised effective December 1, 2009. The revised MRP terms and conditions have been implemented in this report. Under the terms of this MRP, LLNL submits semiannual and annual monitoring reports detailing its Site 300 discharges of domestic and wastewater effluent to the sewage evaporation pond and percolation pond in the General Services Area, and cooling tower blowdown to percolation pits and septic systems, and mechanical equipment discharges to percolation pits located throughout the site.

This report contains all the elements required by Waste Discharge Requirement (WDR) Order R5-2008-0148 for the second semester of 2015 and updates the status of equipment and facilities since the adoption of R5-2008-0148. Proper operating conditions were met for all permitted networks. Compliance certification accompanies this report, as required by the permit.

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1. Introduction

Site 300, operated by Lawrence Livermore National Security, LLC, is located in the Altamont Hills approximately 10.5 kilometers (6.5 miles) southwest of downtown Tracy, California. Required monitoring for specific Lawrence Livermore National Laboratory (LLNL) Site 300 monitoring networks is defined in the Monitoring and Reporting Program (MRP) Order Number R5-2008-0148, which was adopted in September 2008, and revised effective December 1, 2009. The revised MRP has been implemented in this report. Applicable reporting requirements are found in the Standard Provisions and Reporting Requirements specified in the Waste Discharge Requirements (WDR) Order R5-2008-0148 (CVRWQCB, 2008) permit and in the MRP R5-2008-0148.

This report provides a summary of monitoring in designated networks conducted during the second semester of 2015 under the revised MRP R5-2008-0148 (CVRWQCB, 2008). The report details the monitoring results of the three compliance networks and presents analytical data, field summary sheets, and inspection logs associated with discharges at the networks.

Compliance monitoring networks discussed in the report include:

- Sewage evaporation and percolation ponds wastewater and ground water monitoring (Sections 2.1 through 2.5).
- Cooling tower blowdown discharge monitoring and percolation pit inspections (Sections 3.1 through 3.4).
- Mechanical equipment effluent discharge monitoring and percolation pit inspections (Sections 4.1 through 4.4).
- Permit related summaries and updates.

BC Laboratories, Inc., Alpha Labs, and FGL Environmental Laboratory provided off-site analytical support for the monitoring networks.

This report summarizes the activities associated with these monitoring networks including: tabular summaries or data plots for all data for at least the last five years; ground water elevation contour map with well locations; identification of any data gaps or deficiencies; and a discussion of any changes to the monitoring program.

Figure 1 shows the locations of the wastewater systems permitted under WDR R5-2008-0148, including mechanical equipment percolation pits and the sewage oxidation and percolation ponds (sewage ponds) located in the General Services Area. None of the permitted mechanical equipment percolation pits overflowed during this monitoring period, and no standing water was observed within the Cristy boxes. There were no detected impacts to ground water around the sewage ponds. Discharges from cooling towers and mechanical equipment were consistent with historic information provided in the previous Reports of Waste Discharge.

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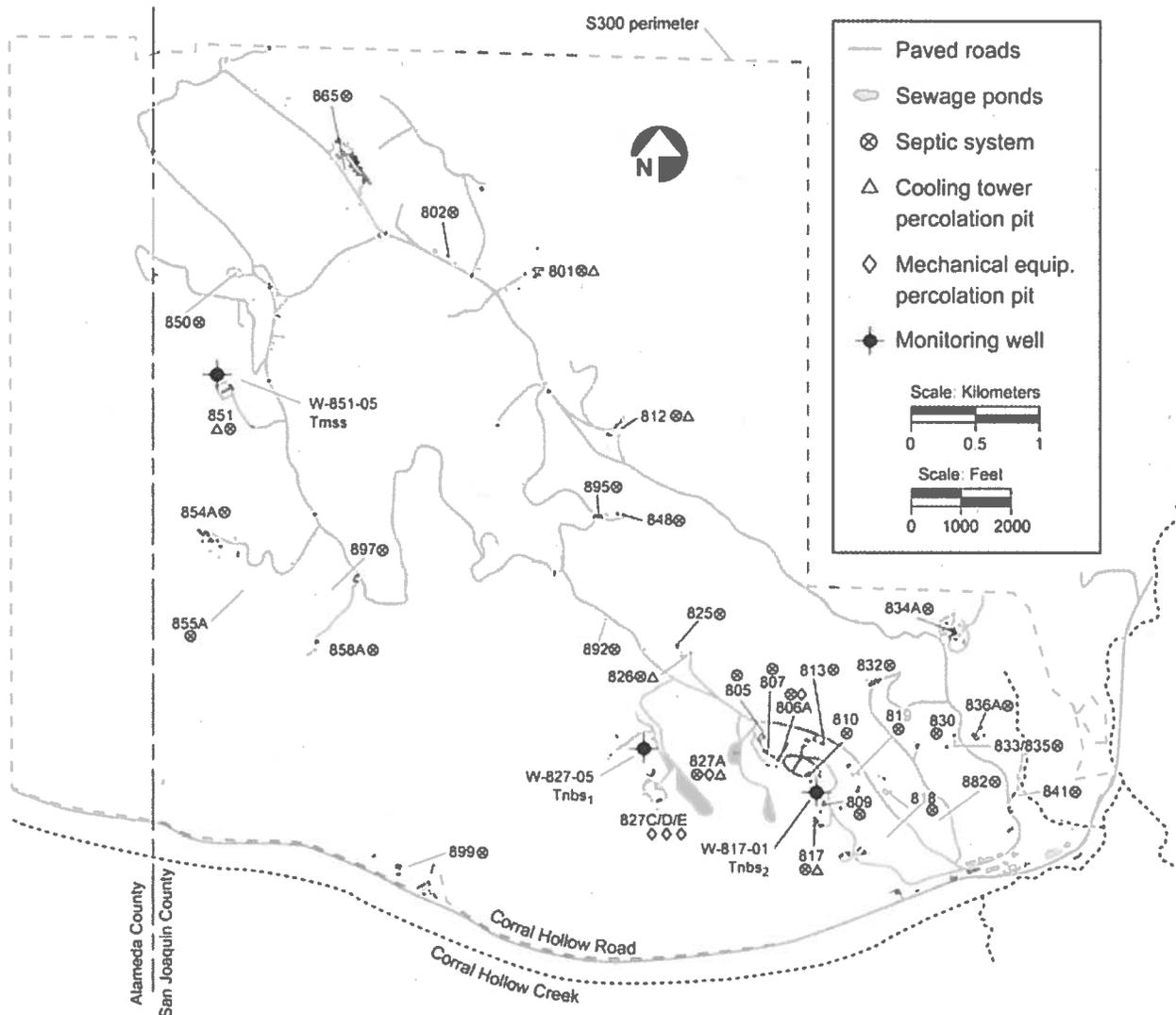


Figure 1. Locations of Site 300 facilities with septic systems and percolation pits.

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2. Sewage Evaporation and Percolation Ponds

2.1. Effluent and Pond Compliance Monitoring Program

MRP R5-2008-0148 requires semi-annual and annual samples be collected of wastewater flowing into the sewage evaporation pond (sewage pond) for analysis. Sample collection is by grab sampling from a location west of the sewage pond (see sampling location ISWP in **Appendix A, Figure A-1** showing the Site 300 sewage evaporation and percolation ponds and ground water and wastewater compliance monitoring locations). Location ISWP is a port providing access to a section of pipe through which all waste streams flow before they flow into the sewage pond. The samples are analyzed for specific conductance (SC, or electrical conductivity), pH, and biochemical oxygen demand (BOD).

MRP R5-2008-0148 also requires samples be collected of wastewater within the sewage pond and wastewater discharging into the sewage percolation pond. Semiannual wastewater samples are collected by grab sampling from a dock at the eastern end of the sewage pond (sampling location ESWP) and analyzed for SC, pH, metals, dissolved oxygen (DO), BOD, and total and fecal coliform. Any discharge from the sewage pond to the sewage percolation pond (sampling location DSWP) is grab sampled and analyzed for the same constituents. Permit WDR R5-2008-0148 requires LLNL to operate the sewage pond with adequate freeboard to minimize the frequency of discharges to the sewage percolation pond.

Observations of the sewage pond are made and recorded at least monthly for freeboard, color, odor, and levee condition. **Appendix A** contains several 2015 data sets including; field tracking forms, sewer pond inspection reports, ground water sampling data forms, historical data plots for the sewage evaporation pond and percolation pond network, and ground water well field observation forms for the sewage pond. Inspection reports indicate some animal burrows are observed in the levee from time to time. These burrows continue to be monitored by operations personnel to ensure that the integrity of the levee is not compromised.

Leak detection and monitoring compliance at the sewage evaporation and percolation ponds is accomplished by monitoring the shallow ground water beneath and adjacent to the ponds. Ground water monitoring includes semiannual sampling during the first and second semesters when ground water levels are the highest and lowest and analysis of the collected samples for SC, pH, total and fecal coliform, chloride, nitrate, sulfate, total dissolved solids, sodium, and metals. In addition, ground water elevations are routinely recorded and contoured (**Appendix A, Figure A-2**). A map showing the locations of the monitor wells (**Appendix A, Figure A-1**) with respect to the ponds, and tables of ground water specifications and elevations for the second semester of 2015 for each well are provided (**Appendix A, Tables A-1 and A-2**).

In addition to normal operation of the sewer evaporation pond, discharges to the sewer pond occurred that were associated with the beneficial use of discharged water. These discharges were in preparation for potable water delivery to Site 300 from the San Francisco Public Utility District Hetch-Hetchy water system. The Hetch-Hetchy water is flushed from the line periodically to maintain sanitary conditions in the line. When a discharge to the sewage evaporation pond is scheduled, the chlorinated water in the Hetch-Hetchy line is analyzed for chlorine. When the water reaches a chlorine residual value at or below 1.0 mg/L, which generally

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takes one or two weeks, the water is ready to flush. When flushing, a 4-inch hose is used to pump the water from the Hetch-Hetchy line to the sewer evaporation pond. Before the water is flushed, the residual chlorine concentration is adjusted and generally decreases to 1 mg/L or less; pH is also adjusted at this time. During the second semester 2015, there was one discharge of evaporation loss makeup water to the sewage pond, which took place on September 17. Details of that discharge are shown on **Table 1** below which provides the date the discharge occurred, the volume of water discharged, chlorine residual, and pH of the discharged water. These discharges are consistent with Waste Discharge Requirements Order Number R5-2008-0148 and the revised MRP (November 23, 2009).

Table 1. Summary water system pipeline flushing and pressure testing discharges at Site 300 during 2015.

Discharge Date	Volume Discharged (gallons)	Chlorine Residual (mg/L)	pH (units)	Reuse
5/7/2015	33,975	0.00	7.25	Evaporation makeup water in sewage pond
9/17/15	17,325	0.00	7.75	Evaporation makeup water in sewage pond

2.2. Sewage Pond Wastewater Sampling and Analysis

For the sewage pond wastewater sampling and analysis, calibration is performed on DO, SC, and pH meters less than 12 hours before sampling. DO, SC, pH, and temperatures of the samples are measured and written on the field tracking forms (field logs) when the grab samples from ISWP, ESWP, and DSWP are collected. Chain-of-custody (CoC) forms are filled out appropriately and signed by the sampler for each analytical laboratory to which the samples are transferred; CoC numbers are also written on the field logs. Analytical methods used are appropriate EPA-approved Methods (U.S. Environmental Protection Agency, 2005) or Standard Methods (Clesceri et al., 1998).

The samples required under MRP R5-2008-0148 for locations ISWP and ESWP were collected on September 29, 2015. These samples, and all samples collected with results presented in this report, were collected, analyzed, and results entered into the Environmental Functional Area (EFA) database according to a complete set of written protocols documented in the LLNL Environmental Functional Area's Environmental Monitoring Plan (Gallegos, 2012).

2.3. Sewage Pond Wastewater Monitoring Results

Results are summarized here for samples collected during the monitoring period as required under MRP R5-2008-0148. Monitoring data are found in **Appendix A**. Coliform, anion, BOD, DO, and specific conductance data summaries are presented in **Table A-3**. A metal data summary for the locations ESWP and DSWP are found in **Table A-4**. **Table A-5** provides a duplicate (QA) sampling data summary for the sewage pond's wastewater monitoring network. All results and observations were in compliance with the Permit's discharge specifications. Adequate free board was provided to prevent any over-topping or erosion of the pond embankment. Field tracking forms indicate normal operations and are provided in **Appendix A**,

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which also contains the field logs, including field measurements. The CoCs and laboratory analytical results are stored at LLNL and are available upon request.

2.4. Ground Water Sampling and Analysis

Semiannual sampling of ground water from wells at the sewage evaporation and percolation ponds was performed during the second semester of 2015. Ground water samples were collected and analyzed, and results entered into the EFA database according to written protocol (Goodrich and Lorega, 2012). The monitor wells were purged and sampled during two phases, from August 10 through November 16, 2015, according to prescribed methods assigned to each monitor well. Information regarding the conditions during sampling, as well as field measurements taken at the time of sampling, is found in the ground water sampling data sheets located in **Appendix A**. The collected samples were transferred to an offsite analytical laboratory for physical parameters and analyses listed in **Section 2.1**. Following the initial sampling event, each well was treated with a pre-calculated dose of chlorine and pumped to circulate the chlorine throughout the water column. On the following day, wells were tested for residual chlorine and samples collected to be analyzed for total and fecal coliform bacteria at an offsite analytical laboratory. Wells that tested positive for chlorine were pumped until chlorine was not detected prior to sampling, according to the aforementioned written protocols.

2.5. Ground Water Monitoring Results

All monitored parameters were in compliance with the Permit limits; ground water data are presented in Tables found in **Appendix A**. Anion data are listed in **Table A-6**. Coliform data are found in **Table A-7**. **Table A-8** provides a summary of physical chemistry data and **Table A-9** lists metals data. QA data summaries for the monitoring network are located in **Table A-10**. During the second semester, neither total coliform or fecal coliform were detected above the <2 MPN/100mL detection limit in any monitoring wells (**Table A-7**).

Appendix A, Figure A-2 contains the ground water elevation contour map for the most shallow ground water zones (Hydrostratigraphic Units [HSUs]) in the sewage evaporation and percolation ponds area. This map reflects ground water elevation levels from August through November 2015. The sewer pond ground water network map showing concentrations of nitrates is presented in **Appendix A, Figure A-3**. Nitrate data is also shown in **Table A-6**. All the detailed ground water data CoCs and laboratory analytical results are archived at LLNL and are available upon request.

3. Cooling Tower Network

3.1. Cooling Tower Compliance Monitoring Program

Monitoring required for the cooling tower blowdown is specified in MRP R5-2008-0148. LLNL implemented the cooling tower blowdown monitoring starting the fourth quarter of 2008. Applicable reporting requirements are found in the Standard Provisions and Reporting Requirements of WDR R5-2008-0148 and the MRP.

Cooling towers located at Site 300 discharge either into percolation pits or into septic systems. Currently, there are six operating cooling towers. The cooling tower locations are identified in

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Appendix B, Figure B-1. The cooling tower located at Building 825 normally discharged to a septic system but was not operational during this last period and therefore no samples were collected. LLNL is in the process of performing maintenance on the system. The remaining cooling towers located at Buildings 801, 817, 826, 827, and 851 all discharge to percolation pits and were operational this period. The two original cooling towers located at Building 851 were replaced in the second semester 2009 with a single new cooling tower. The two cooling towers located at Building 827 have blended cooling water and a combined discharge line and therefore only one sample is routinely collected to characterize the discharge of these cooling towers.

MRP R5-2008-0148 requires semi-annual sampling of the cooling tower blowdown. Grab samples are collected from the water circulating in the cooling tower, either at a valve or a drainpipe. The grab samples are collected directly into the containers specified by the laboratory. Samples are analyzed for metals, pH, sodium, SC, sulfate, total alkalinity, total dissolved solids, total hardness, and total phosphorus.

3.2. Cooling Tower Blowdown Effluent Sampling and Analysis

Second semester 2015 routine cooling tower blowdown samples were collected October 27, 2015. For the cooling tower blowdown sampling and analysis, calibration is performed on SC and pH meters less than 12 hours before sampling. SC and pH data measured in the field are written down on field tracking forms. CoC forms are filled out appropriately and signed by the sampler for each analytical laboratory to which the samples are transferred; CoC numbers are also written on the field logs. Analytical methods used are appropriate EPA-approved Methods (U.S. Environmental Protection Agency, 2005) or Standard Methods (Clesceri et al., 1998).

3.3. Cooling Tower Blowdown Monitoring Results

All cooling tower sample results are listed in Appendix B along with the Quality Assurance results, field tracking forms, and CoCs. **Table B-1** lists anion data, **Table B-2** lists metals results, and **Table B-3** provides data on the required physical characteristics. QC data from duplicate sampling is provided in **Table B-4**.

Analytical results for cooling tower blowdown samples collected this semester are compared to values shown in WDR Order No. R5-2008-0148, Attachment 16.

- Copper concentrations in samples collected ranged from 4.3 µg/L to 33 µg/L, as compared to the maximum historical effluent concentrations summarized in the WDR Attachment 16 (2,400 µg/L). Cooling tower at Building 817 (33 µg/L) had the most elevated copper value (**Table B-2**) and was lower than the value reported last semester (84 µg/L).
- Molybdenum concentrations in samples collected ranged from non-detect (<25 µg/L) to 61 µg/L, as compared to the maximum historical effluent concentrations summarized in Attachment 16 (45 µg/L). Most of the molybdenum values at the cooling towers are slightly lower this semester as compared to the high value last semester of (220 µg/L) at B-851.
- Zinc concentrations in samples collected ranged from <20 µg/L to 360 µg/L and were slightly higher than the maximum historical effluent concentrations of data summarized

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in the WDR Attachment 16 (340 µg/L). The cooling tower at Building 817A (360µg/L) was higher than the 55 µg/L zinc concentration reported last semester. This semester zinc concentrations were relatively the same at three out of the five operating cooling towers sampled.

Although the concentrations for copper, molybdenum, and zinc are slightly above the range in the appendix (Attachment 16) of the WDR, the discharge concentrations are well below the values calculated using the Designated Level Methodology to impact ground water. LLNL will continue to evaluate future copper, molybdenum, and zinc analytical data.

3.4. Cooling Tower Percolation Pit Monthly Inspections

LLNL implements monthly visual inspections of the cooling tower percolation pits that are located at Buildings 801, 812, 817A, 826, 827A, and 851 (**Appendix B, Figure B-1**), which collect effluent from the cooling towers as specified in MRP R5-2008-0148. Inspection sheets for April, May, and June are missing due to staffing changes. However, daily inspections were conducted at each cooling tower facility and no issues were reported during this period. This situation has been corrected and monthly inspections have resumed.

If standing water is present, the MRP requires the inspection frequency to be increased to weekly until standing water is no longer visible. Visual inspections are conducted to verify the percolation pits are working properly and do not have the potential to overflow. Copies of the inspection forms are found in **Appendix B**. During this semester, no standing water was observed in the cooling tower Christy Boxes, except on one occasion at the cooling tower at Building 801A. On October 29, standing water was observed in the percolation pit at B-801A and water was flowing from the Christy Box. The Site 300 maintenance crew recognized that the water build up was due to a malfunctioning float valve. The valve was repaired and the situation rectified. No other standing water was observed at other Site 300 cooling tower percolation pits and all demonstrated normal operations.

4. Mechanical Equipment Effluent Monitoring

4.1. Mechanical Equipment Discharge Monitoring Program

Monitoring required for mechanical equipment discharge effluent to percolation pits is specified in the MRP R5-2008-0148. LLNL monitors the mechanical equipment systems located at Buildings 806B, 827C, 827D, 827E, and sample location 3-CT-PERK-01-0W, formerly 827A mechanical equipment percolation pit discharge. **Appendix C, Figure C-1** provides the locations of those systems.

4.2. Mechanical Equipment Effluent Sampling and Analysis

The results for the mechanical equipment room effluent monitoring for the second semester of 2015 are reported in **Appendix C**. Monitoring is performed using composite sampling from Christy boxes that allows an automatic sampler to be placed within the boxes, allowing composite samples to be collected during operations. During this sampling period, samples were taken from the Buildings 806B, 827C, 827D, 827E, and 3-CT-PERK-01-0W locations.

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For the sampling and analysis of mechanical equipment effluent, CoC forms are filled out appropriately and signed by the sampler for each analytical laboratory to which the samples are transferred; CoC numbers are also written on the field logs, provided in **Appendix C**. Analytical methods used are appropriate EPA-approved Methods (U.S. Environmental Protection Agency, 2005) or Standard Methods (Clesceri et al., 1998).

4.3. Mechanical Equipment Effluent Monitoring Results

Sample analytical results for this monitoring network are presented in **Appendix C**. Results are consistent with data found in Attachments 5 and 6 in the MRP R5-2008-0148. **Table C-1** lists anion data, **Table C-2** lists metals results and **Table C-3** provides data on the required physical characteristics. Data from duplicate sampling is provided in the data tables.

4.4. Mechanical Equipment Percolation Pit Monthly Inspections

MRP R5-2008-0148 requires monthly inspections of the five mechanical equipment percolation pits located at Buildings 806B, 827C, 827D, 827E, and 3-CT-PERK-01-0W (**Appendix C, Figure C-1**). **Appendix C** contains the second semester 2015 mechanical equipment percolation pit inspection checklists. If standing water is visible during the inspection, the inspection frequency for the percolation pit with the standing water is increased to weekly until no standing water is visible. During this period, no standing water was observed at any of the mechanical equipment percolation pits.

5. Permit Related Summaries and Updates

5.1. Regulatory Correspondence

The following letters, verbal communication, or activities were conducted under the CVRWQCB WDR-R5-2008-0148 permit during the second semester of 2015:

- The Site 300 CVRWQCB fall inspection was not conducted during the second semester 2015 at the request of the CVRWQCB staff. The Water Board requested that the next inspection be scheduled for the spring of 2016.
- Discharge of water from the Hetch-Hetchy water line to the sewer evaporation pond occurred twice during 2015 on May 7 and September 17. An effort is still underway to start the delivery of Hetch-Hetchy water to Site 300. Work on the installation of the aeration pumps at each of the 11 storage tanks was completed the first semester during June. At the request of the State of California drinking water regulator during the second semester, Site 300 installed flow meters at each of the pumps and tank locations to ensure proper operation. It is still the goal of Site 300 to have the Hetch-Hetchy water turned on once all system checks have been completed.

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References

- Blake, R. (2008), LLNL Experimental Test Site 300 Compliance Monitoring Report for Waste Discharge Requirements 96-248, First Quarter 2008, Lawrence Livermore National Laboratory, Livermore, CA (UCRL-AR-125915-08-1).
- Brown, R. (2006), LLNL Experimental Test Site 300 Compliance Monitoring Report for Waste Discharge Requirements 96-248, First Quarter 2007, Lawrence Livermore National Laboratory, Livermore, CA (UCRL-AR-125915-07-1).
- Campbell, Chris (2010), Record of Communication (ROC) to the Central Valley Regional Water Quality Control Board (Kathryn Dominic) re: *Algae Removal at the Site 300 Sewer Pond, Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties*, ROC PRAD10:091, April 14, 2010.
- Clesceri, L.S., Greenberg, A.E., and Eaton, A.D., Ed. (1998), *Standard Methods for the Examination of Water and Wastewater*, 20th ed.
- Condon, C. (2006), Letter from the Central Valley Regional Water Quality Control Board to Ellen Raber re: *Revision of Monitoring and Reporting Program 96-248, Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties*, March 7, 2006.
- CVRWQCB (1991), *Standard Provisions and Reporting Requirements for Waste Discharge Requirements*, Central Valley Regional Water Quality Control Board, March 1, 1991.
- CVRWQCB (1996), *Order No. 96-248, Waste Discharge Requirements for University of California Lawrence Livermore National Laboratory Experimental Test Site (Site 300) and US Department of Energy Evaporation and Percolation Ponds and Class II Surface Impoundments, San Joaquin and Alameda Counties*, September 20, 1996.
- CVRWQCB (2008), Order No. R5-2008-0148, Waste Discharge Requirements Issued To Lawrence Livermore National Security, LLC, and the U.S. Department of Energy for Lawrence Livermore National Laboratory Experimental Test Site (Site 300) Sewage Evaporation and Percolation Ponds, Septic Systems, Cooling Tower Discharges, Mechanical Equipment Wastewater Discharges, and Other Low Threat Discharges, September 2008.
- Dominic, Kathryn (2010), Letter from the Central Valley Regional Water Quality Control Board re: *Report of Waste Discharge for New Equipment Under Waste Discharge Requirements No. R5-2008-0148 at Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties*, December 16, 2010.
- Gallegos, G. [Ed.] (2012), *Environmental Monitoring Plan*, Environmental Protection Department, Lawrence Livermore National Laboratory, Livermore, CA (UCRL-ID-106132, Rev. 6).
- Goodrich, R., and G. Lorega (2012), *LLNL Livermore Site and Site 300 Environmental Restoration Project Standard Operating Procedures (SOPs)*, Lawrence Livermore National Laboratory, Livermore, Calif. (UCRL-MA-109115 Rev. 14).
- Goodwin, S. (2007), *Release of Sewage Pond Wastewater to Ground While Fighting a Wildfire at Lawrence Livermore National Laboratory Experimental Test Site (Site 300)*, Lawrence Livermore National Laboratory, Livermore, CA (FireSewageLtr_07_102).

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- Mansoor, K., and Z. Demir (2010), *Evaluation of Potential Impact to Ground Water from Percolation Pits and Septic Systems at Lawrence Livermore National Laboratory Site 300 for the Central Valley Regional Quality Control Board Waste Discharge Requirements Order No. R5-2008-0148*, Lawrence Livermore National Laboratory, Livermore, CA (LLNL-AR-461303).
- Mansoor, K., and Z. Demir (2011), *Evaluation of Potential Impact to Ground Water from Percolation Pits and Septic Systems at Lawrence Livermore National Laboratory Site 300 for the Central Valley Regional Quality Control Board Waste Discharge Requirements Order No. R5-2008-0148*, Lawrence Livermore National Laboratory, Livermore, CA (LLNL-AR-461303. Revision 1).
- Schultz, Bruce (2010), Letter to the Central Valley Regional Water Quality Control Board (Kathryn Dominic) re: Results of Tracer Investigation for Mechanical Equipment Discharges at Building 827A at Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties, November 12, 2010.
- Schultz, Bruce (2010), Letter to the Central Valley Regional Water Quality Control Board (Kathryn Dominic) re: *Addition of New Equipment to LLNL Building 825 Under WDR R5-2008-0148 at Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties*, November 12, 2010(b).
- Schultz, Bruce (2010), Letter to the Central Valley Regional Water Quality Control Board (Kathryn Dominic) re: *Report Summarizing Final Hetch Hetchy Water System Pipeline Flushing and Connection for Water Delivery to Lawrence Livermore National Laboratory Site 300, Alameda and San Joaquin Counties*, December 20, 2010.
- U.S. Environmental Protection Agency (2005), *Title 40 Code of Federal Regulations, Part 136*.

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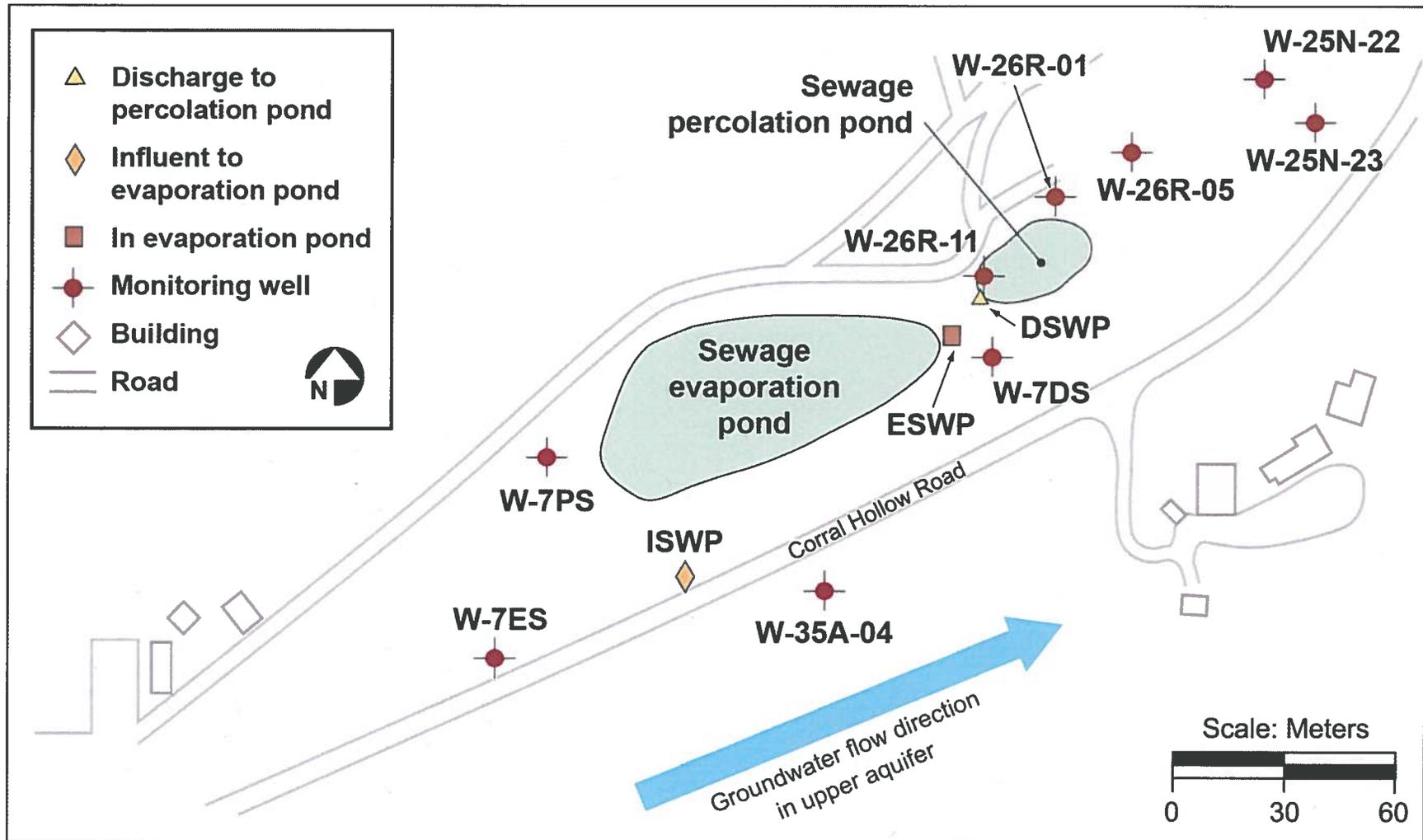
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Appendix A

Sewage Evaporation and Percolation Pond Network

- Sewer Pond Figures
- Sewer Pond Tables (well specifications)
- Field Tracking Forms/COC
- Sewer Pond Inspection Reports
- Ground Water Sampling Data Forms
- Historical Data Plots: Sewage Evaporation Pond and Percolation Pond Network (ISWP, ESWP, and Ground Water Wells) – Second Semester – Annual Report Only

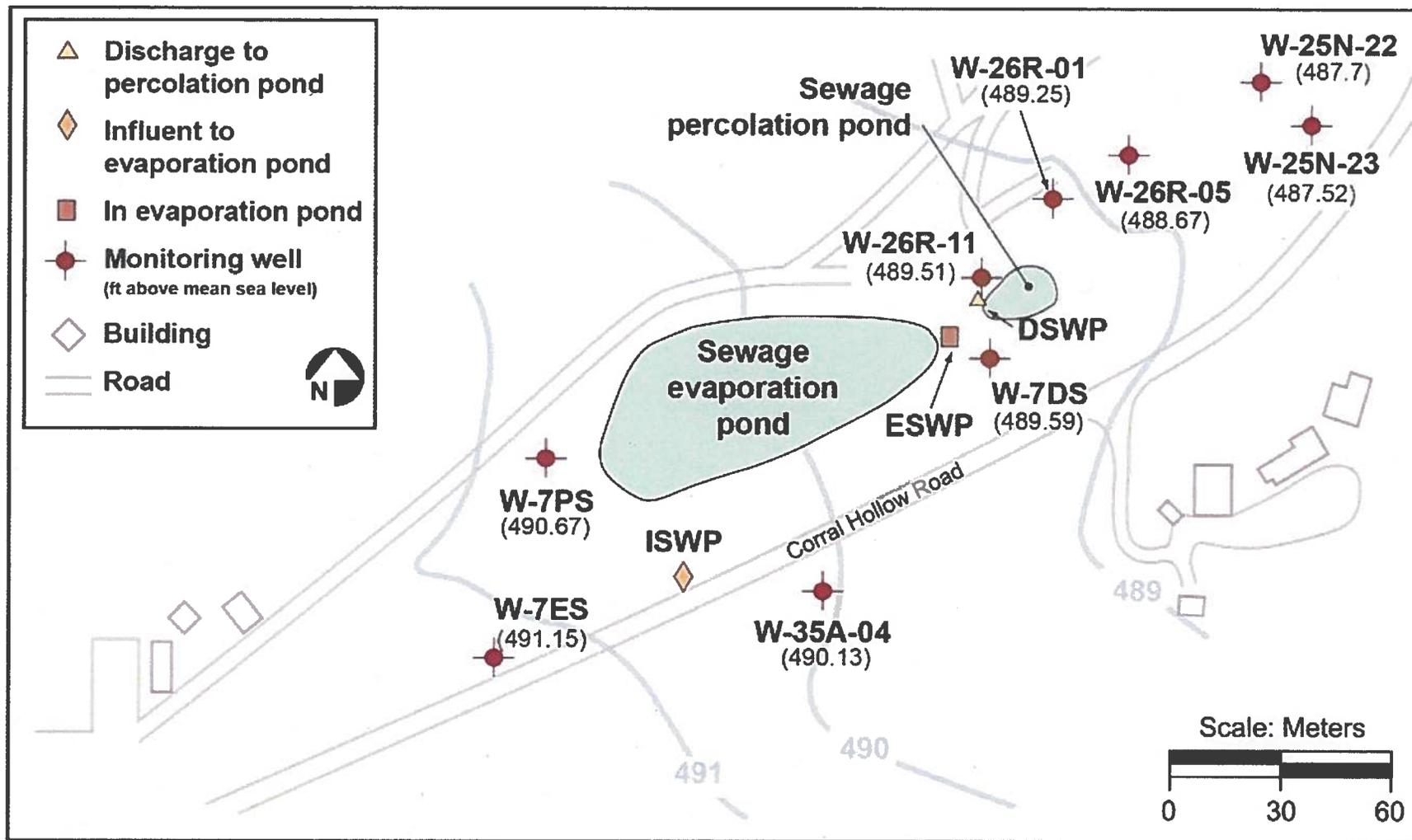
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ERD-S3R-15-0036

Figure A-1. Sewer pond wastewater and ground water monitoring network.

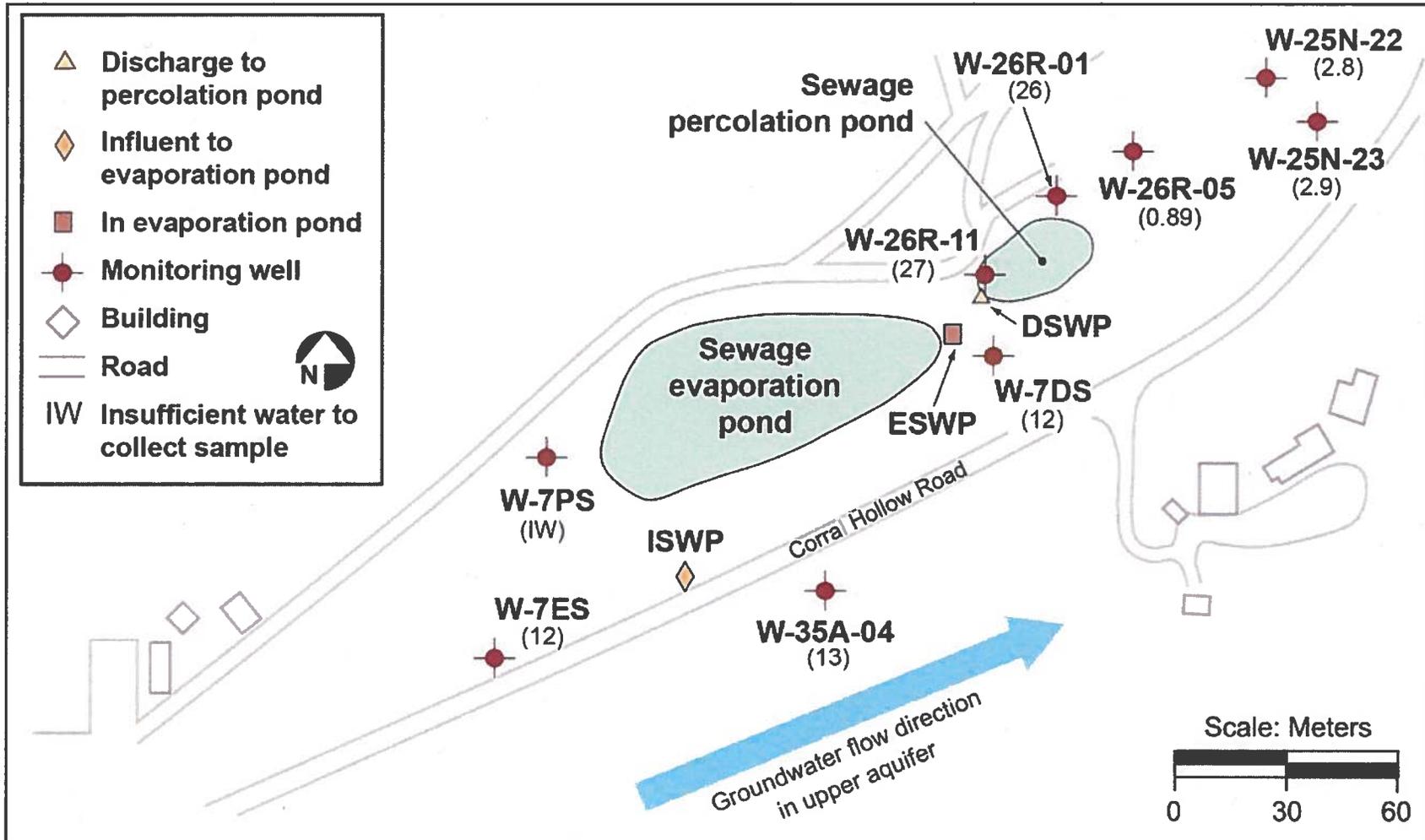
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ERD-S3R-16-0014

Figure A-2. Site 300 sewer pond wastewater and effluent monitoring network with ground water elevations (ft-above mean sea level).

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ERD-S3R-16-0015

Figure A-3. Site 300 sewer pond wastewater and effluent monitoring network with nitrate concentrations (in mg/L).

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Table A-1. Summary of Site 300 sewer pond well specifications.

Well	HSU	Easting	Northing	Ground surface elevation	Measuring point elevation	Screen top elevation	Screen bottom elevation	Bentonite top elevation	Filter pack top elevation	Well bottom elevation
W-7ES	Qal-Tnbs ₁	1,711,719	414,586	506.41	509.71	491.41	481.41	496.41	495.41	479.61
W-7PS	Qal-Tnbs ₁	1,711,773	414,782	506.10	508.78	489.60	486.60	494.10	492.10	486.60
W-35A-04	Qal-Tnbs ₁	1,712,036	414,642	504.07	503.98	485.07	475.07	494.87	486.27	475.07
W-26R-01	Qal-Tnbs ₁	1,712,267	415,036	506.74	509.71	486.94	481.94	494.24	490.74	476.94
W-26R-11	Qal-Tnbs ₁	1,712,198	414,961	504.93	507.21	489.13	479.13	493.13	491.13	477.93
W-26R-05	Qal-Tnbs ₁	1,712,339	415,070	511.31	513.11	491.11	486.11	500.81	498.81	485.81
W-25N-20	Qal-Tnbs ₁	1,712,371	414,923	502.11	504.94	490.11	475.11	494.61	492.61	474.11
W-7DS	Qal-Tnbs ₁	1,712,206	414,880	503.30	506.60	487.80	477.80	491.80	489.80	476.30
W-25N-22	Qal-Tnbs ₁	1,712,486	415,152	510.25	513.06	492.25	482.25	497.25	495.25	481.75
W-25N-23	Qal-Tnbs ₁	1,712,521	415,109	507.58	510.39	488.58	473.58	495.08	493.08	472.28

Notes:

All measurements are made in feet; elevations are in feet above mean sea level.

HSU = Hydrostratigraphic unit.

Qal-Tnbs₁ = Miocene Neroly Formation Lower Blue Sandstone.

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Table A-2. Site 300 sewer pond ground water monitoring network 2015 ground water elevation summary.

Well	Date sampled	Pre-sampling measurement	Ground water depth (ft.)	Ground water elevation (ft. above MSL)
W-7ES	Feb 9		19.3	490.4
W-7ES	Mar 4	PS	19.3	490.4
W-7ES	Mar 5	PS	19.3	490.4
W-7ES	May 28		18.9	490.8
W-7ES	Jun 3	PS	18.9	490.8
W-7ES	Jun 4	PS	18.9	490.8
W-7ES	Aug 10		17.7	492.0
W-7ES	Aug 25	PS	18.1	491.6
W-7ES	Aug 26	PS	18.1	491.6
W-7ES	Nov 11	PS	18.5	491.2
W-7ES	Nov 12	PS	18.5	491.2
W-7ES	Nov 16		18.6	491.2
W-7PS	Feb 9		18.3	490.5
W-7PS	May 28		18.3	490.5
W-7PS	Aug 10		18.3	490.5
W-7PS	Nov 16		18.1	490.6
W-35A-04	Mar 4		18.6	485.4
W-35A-04	Apr 4	PS	14.6	489.5
W-35A-04	Jun 3	PS	14.3	489.8
W-35A-04	Jun 4	PS	14.3	489.8
W-35A-04	Jun 11		20.2	483.9
W-35A-04	Aug 20		15.4	488.7
W-35A-04	Aug 25	PS	14.2	489.9
W-35A-04	Aug 26	PS	14.2	489.9
W-35A-04	Nov 11	PS	13.7	490.4
W-35A-04	Nov 12	PS	13.7	490.4
W-35A-04	Nov 19		13.9	490.1
W-25N-23	Feb 9		23.0	487.0
W-25N-23	Mar 2	PS	23.1	487.0
W-25N-23	Mar 3	PS	23.1	487.0
W-25N-23	May 28		23.1	487.0
W-25N-23	Aug 10		21.9	488.2
W-25N-23	Aug 10	PS	21.9	488.2
W-25N-23	Aug 11	PS	21.9	488.1
W-25N-23	Nov 16		22.6	487.5
W-25N-22	Feb 9		25.4	487.4
W-25N-22	Mar 2	PS	25.4	487.3
W-25N-22	Mar 3	PS	25.5	487.2
W-25N-22	May 28		25.5	487.2
W-25N-22	Aug 10		24.7	488.1
W-25N-22	Aug 10	PS	24.7	488.0
W-25N-22	Aug 11	PS	24.7	488.0
W-25N-22	Nov 16		25.1	487.7
W-26R-01	Feb 9		21.1	488.7
W-26R-01	Mar 2	PS	21.1	488.6
W-26R-01	Mar 3	PS	21.2	488.6
W-26R-01	May 28		21.7	488.0
W-26R-01	Jun 1	PS	20.8	488.9
W-26R-01	Jun 2	PS	20.9	488.9
W-26R-01	Jun 15	PS	20.6	489.1

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Table A-2. Site 300 sewer pond ground water monitoring network 2015 ground water elevation summary.

Well	Date sampled	Pre-sampling measurement	Ground water depth (ft.)	Ground water elevation (ft. above MSL)
W-26R-01	Aug 10		19.9	489.9
W-26R-01	Aug 24	PS	19.8	489.9
W-26R-01	Aug 25	PS	19.8	489.9
W-26R-01	Nov 10	PS	20.4	489.3
W-26R-01	Nov 11	PS	20.5	489.2
W-26R-01	Nov 16		20.5	489.2
W-26R-05	Feb 9		24.2	488.9
W-26R-05	Mar 2	PS	24.3	488.8
W-26R-05	Mar 5	PS	24.9	488.2
W-26R-05	May 28		24.2	489.0
W-26R-05	Jun 1	PS	24.5	488.6
W-26R-05	Jun 4	PS	25.1	488.0
W-26R-05	Aug 10		23.7	489.4
W-26R-05	Aug 10	PS	23.3	489.8
W-26R-05	Aug 18	PS	24.0	489.1
W-26R-05	Nov 9	PS	24.1	489.0
W-26R-05	Nov 16		26.3	486.8
W-26R-05	Nov 16	PS	24.4	488.7
W-26R-11	Feb 9		18.3	488.9
W-26R-11	Mar 2	PS	18.4	488.8
W-26R-11	Mar 3	PS	18.4	488.8
W-26R-11	May 28		18.8	488.4
W-26R-11	Jun 1	PS	18.2	489.0
W-26R-11	Jun 2	PS	18.2	489.0
W-26R-11	Aug 10		16.9	490.3
W-26R-11	Aug 24	PS	17.2	490.0
W-26R-11	Aug 25	PS	17.2	490.0
W-26R-11	Nov 10	PS	17.7	489.5
W-26R-11	Nov 11	PS	17.7	489.5
W-26R-11	Nov 16		17.7	489.5
W-7DS	Feb 9		17.7	488.9
W-7DS	Mar 4	PS	17.7	488.9
W-7DS	Mar 5	PS	17.7	488.9
W-7DS	May 28		17.7	488.9
W-7DS	Jun 1	PS	17.4	489.2
W-7DS	Jun 2	PS	17.4	489.2
W-7DS	Aug 10		16.2	490.4
W-7DS	Aug 25	PS	16.2	490.4
W-7DS	Aug 26	PS	16.2	490.4
W-7DS	Nov 10	PS	17.0	489.6
W-7DS	Nov 11	PS	17.0	489.6
W-7DS	Nov 16		17.0	489.6

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Table A-3. Site 300 sewer pond wastewater monitoring network 2015 coliform, anion, and physical characteristic data summary.

Well	Date	pH	Specific Conductance (μmhos/cm)	Biochemical Oxygen Demand (mg/L)	Dissolved Oxygen (mg/L)	Fecal Coliform (MPN/100mL)	Total Coliform (MPN/100mL)	Sodium (mg/L)
3-ESWP-OW	Apr 21	8.4	6,200	20	11	1,600	1,600	1600
3-ESWP-OW	Sep 29	9.5	6,400	30	5.9	>1600	>1,600	<55
3-ISWP-OW	Apr 21	9.8	1,300	220	-	-	-	-
3-ISWP-OW	Sep 29	8.7	1,700	47	-	-	-	-

Note:

- = Analysis not required.

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Table A-4. Site 300 sewer pond wastewater monitoring network 2015 metals data summary.

Analyte	Date	3-ESWP-OW ($\mu\text{g/L}$)
Aluminum	Apr 21	<250
	Sep 29	280
Arsenic	Apr 21	5.2
	Sep 29	3.4
Barium	Apr 21	<50
	Sep 29	110
Boron	Apr 21	6,900
	Sep 29	40,000
Cadmium	Apr 21	<100
	Sep 29	<100
Calcium	Apr 21	8,800
	Sep 29	45,000
Chromium	Apr 21	<6
	Sep 29	<3
Hexavalent Chromium	Sep 29	<1
Copper	Apr 21	6.9
	Sep 29	3.5
Iron	Apr 21	<500
	Sep 29	1,000
Lead	Apr 21	<10
	Sep 29	<10
Magnesium	Apr 21	2,500
	Sep 29	5,400
Manganese	Apr 21	<150
	Sep 29	<150
Mercury	Apr 21	<0.2
	Sep 29	<0.2
Molybdenum	Apr 21	<120
	Sep 29	270
Nickel	Apr 21	4.9
	Sep 29	2.2
Potassium	Apr 21	75,000
	Sep 29	450,000
Selenium	Apr 21	7.3
	Sep 29	3.6
Silver	Apr 21	<2
	Sep 29	<1
Vanadium	Apr 21	<40
	Sep 29	<20
Zinc	Apr 21	<40
	Sep 29	<20

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Table A-5. Site 300 sewer pond wastewater monitoring network 2015 QA data.

Location	Date	Type	pH Units	Specific Conductance (μmhos/cm)	Biochemical Oxygen Demand (mg/L)	Dissolved Oxygen (mg/L)	Fecal Coliform (MPN/100mL)	Total Coliform (MPN/100mL)	Sodium (mg/L)
3-ESWP-OW	Apr 21	Routine	8.4	6,200	20	11	1,600	1,600	1,600
3-ESWP-OW	Apr 21	Duplicate	-	-	-	-	1,600	1,600	-
3-ISWP-OW	Sep 29	Routine	8.7	1,700	47	-	-	-	-
3-ISWP-OW	Sep 29	Duplicate	-	-	43	-	-	-	-

Note:

-- Analysis not required.

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Table A-6. Site 300 sewer pond ground water monitoring network 2015 anions data summary.

Well	Date	Sodium (mg/L)	Chloride (mg/L)	Nitrate (as NO3) (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)
W-7ES	Mar 4	180	160	12	310	0.29
W-7ES	Jun 3	-	-	9.0	-	-
W-7ES	Aug 25	190	160	11	340	0.42
W-7ES	Nov 11	-	-	12	-	-
W-35A-04	Mar 4	190	160	12	340	0.37
W-35A-04	Jun 3	-	-	12	-	-
W-35A-04	Aug 25	200	150	13	340	0.39
W-35A-04	Nov 11	-	-	13	-	-
W-25N-23	Mar 2	170	100	2.4	420	0.41
W-25N-23	Aug 10	150	100	2.9	400	0.35
W-25N-22	Mar 2	170	120	2.2	450	0.37
W-25N-22	Aug 10	170	140	2.8	460	0.28
W-26R-01	Mar 2	220	150	28	250	0.33
W-26R-01	Jun 1	-	-	28	-	-
W-26R-01	Aug 24	200	150	24	230	0.28
W-26R-01	Nov 10	-	-	26	-	-
W-26R-05	Mar 2	160	90	0.77	220	0.42
W-26R-05	Jun 1	-	-	0.99	-	-
W-26R-05	Aug 10	150	87	0.70	210	0.24
W-26R-05	Nov 9	-	-	0.89	-	-
W-26R-11	Mar 2	190	130	15	220	0.35
W-26R-11	Jun 1	-	-	14	-	-
W-26R-11	Aug 24	190	140	14	260	0.30
W-26R-11	Nov 10	-	-	27	-	-
W-7DS	Mar 4	180	150	13	300	0.31
W-7DS	Jun 1	-	-	11	-	-
W-7DS	Aug 25	190	150	11	330	0.34
W-7DS	Nov 10	-	-	12	-	-

Note:

- = Analysis not required.

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Table A-7. Site 300 sewer pond ground water monitoring network 2015 coliform data summary.

Well	Date	Fecal Coliform (MPN/100mL)	Total Coliform (MPN/100mL)
W-7ES	Mar 5	<1.8	<1.8
W-7ES	Jun 4	<1.8	<1.8
W-7ES	Aug 26	<1.8	<1.8
W-7ES	Nov 12	<1.8	<1.8
W-35A-04	Mar 5	<1.8	<1.8
W-35A-04	Jun 4	<1.8	<1.8
W-35A-04	Aug 26	<1.8	<1.8
W-35A-04	Nov 12	<1.8	<1.8
W-25N-23	Mar 3	<1.8	<1.8
W-25N-23	Aug 11	<1.8	<1.8
W-25N-22	Mar 3	<1.8	<1.8
W-25N-22	Aug 11	<1.8	<1.8
W-26R-01	Mar 3	<1.8	<1.8
W-26R-01	Jun 2	<1.8	<1.8
W-26R-01	Aug 25	<1.8	<1.8
W-26R-01	Nov 11	<1.8	<1.8
W-26R-05	Mar 5	<1.8	<1.8
W-26R-05	Jun 4	<1.8	<1.8
W-26R-05	Aug 18	<1.8	<1.8
W-26R-05	Nov 16	<1.8	<1.8
W-26R-11	Mar 3	<1.8	<1.8
W-26R-11	Jun 2	<1.8	<1.8
W-26R-11	Aug 25	<1.8	<1.8
W-26R-11	Nov 11	<1.8	<1.8
W-7DS	Mar 5	<1.8	<1.8
W-7DS	Jun 2	<1.8	<1.8
W-7DS	Aug 26	<1.8	<1.8
W-7DS	Nov 11	<1.8	<1.8

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Table A-8. Site 300 sewer pond ground water monitoring network 2015 physical chemistry data.

Well	Date	pH	Specific Conductance (μmhos/cm)	Total Alkalinity (as CaCO ₃) (mg/L)	Total dissolved solids (mg/L)	Total Hardness (as CaCO ₃) (mg/L)	Total Phosphorus (as PO ₄) (mg/L)
W-7ES	Mar 4	7.8	1,560	290	1000	470	<1
W-7ES	Jun 3	8.1	1,660	-	-	-	-
W-7ES	Aug 25	8.0	1,620	270	1,100	480	0.20
W-7ES	Nov 11	7.9	1,610	-	-	-	-
W-35A-04	Mar 4	7.9	1,610	270	1,100	480	<1
W-35A-04	Jun 3	8.0	1,670	-	-	-	-
W-35A-04	Aug 25	8.1	1,630	260	1,100	480	0.16
W-35A-04	Nov 11	7.9	1,620	-	-	-	-
W-25N-23	Mar 2	7.4	1,420	220	1,000	500	<0.15
W-25N-23	Aug 10	7.6	1,440	210	1,000	450	0.15
W-25N-22	Mar 2	7.6	1,490	210	1,100	510	0.42
W-25N-22	Aug 10	7.5	1,600	200	1,100	490	0.23
W-26R-01	Mar 2	7.7	1,390	240	940	300	<0.15
W-26R-01	Jun 1	7.8	1,450	-	-	-	-
W-26R-01	Aug 24	8.0	1,400	240	940	280	<0.15
W-26R-01	Nov 10	7.9	1,400	-	-	-	-
W-26R-05	Mar 2	7.9	1,050	200	730	240	0.35
W-26R-05	Jun 1	8.1	1,070	-	-	-	-
W-26R-05	Aug 10	7.7	1,090	210	730	230	0.31
W-26R-05	Nov 9	7.9	1,090	-	-	-	-
W-26R-11	Mar 2	7.7	1,290	270	850	330	0.23
W-26R-11	Jun 1	7.8	1,440	-	-	-	-
W-26R-11	Aug 24	8.0	1,470	280	980	380	<0.15
W-26R-11	Nov 10	7.9	1,470	-	-	-	-
W-7DS	Mar 4	7.8	1,500	280	1,000	440	<1
W-7DS	Jun 1	7.8	1,590	-	-	-	-
W-7DS	Aug 25	8.2	1,590	280	1,000	490	<0.15
W-7DS	Nov 10	7.9	1,600	-	-	-	-

Note:

- = Analysis not required.

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Table A-9. Site 300 sewer pond ground water monitoring network 2015 metals data summary.									
Analyte (µg/L)	Month	W-7ES	W-35A-04	W-25N-23	W-25N-22	W-26R-01	W-26R-05	W-26R-11	W-7DS
Aluminum	Mar	<50	<50	<50	<50	<50	<50	<50	<50
	Aug	<50	<50	<50	<50	<50	<50	<50	<50
Arsenic	Mar	3.6	3.8	8.6	8.2	8.8	8.1	4.0	3.0
	Aug	2.6	3.5	8.3	7.1	8.7	6.9	3.1	2.6
	Nov	-	4.2	-	-	-	-	-	-
Barium	Mar	48	45	31	32	33	26	42	46
	Aug	50	46	26	26	33	<25	49	50
	Nov	-	49	-	-	-	-	-	-
Boron	Mar	2,800	2,900	1,000	990	1,700	950	2,200	2,700
	Aug	2,800	3,200	1,100	910	1,500	900	2,400	3,000
Cadmium	Mar	<50	<50	<50	<50	<50	<50	<50	<50
	Aug	<50	<50	<50	<50	<50	<50	<50	<50
	Nov	-	4.5	-	-	-	-	-	-
Calcium	Mar	110,000	110,000	120,000	120,000	74,000	59,000	76,000	100,000
	Aug	110,000	110,000	110,000	120,000	68,000	57,000	86,000	110,000
Chromium	Mar	<3	<3	<3	4.5	<3	<3	<3	<3
	Aug	<3	<3	<3	<3	<3	<3	<3	<3
	Nov	-	2.6	-	-	-	-	-	-
Hexavalent Chromium	Mar	<1	<1	<2	<2	<2	<2	<2	<1
	Aug	<2	<2	<2	<2	<2	<2	<2	<2
Copper	Mar	1.5	1.7	2.0	2.7	1.9	1.6	<1	1.6
	Aug	2.7	1.7	1.0	<1	2.8	1.8	1.5	4.0
	Nov	-	<10	-	-	-	-	-	-
Iron	Mar	<100	<100	<100	140	<100	<100	<100	<100
	Aug	<100	<100	<100	<100	<100	<100	<100	<100
Lead	Mar	<5	<5	<5	<5	<5	<5	<5	<5
Analyte (µg/L)	Month	W-7ES	W-35A-04	W-25N-23	W-25N-22	W-26R-01	W-26R-05	W-26R-11	W-7DS
	Aug	<5	<5	<5	<5	<5	<5	<5	<5
	Nov	-	<2	-	-	-	-	-	-

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Table A-9. Site 300 sewer pond ground water monitoring network 2015 metals data summary. (cont.)

Analyte (µg/L)	Month	W-7ES	W-35A-04	W-25N-23	W-25N-22	W-26R-01	W-26R-05	W-26R-11	W-7DS
Magnesium	Mar	50,000	52,000	49,000	50,000	28,000	22,000	35,000	47,000
	Aug	50,000	52,000	44,000	48,000	26,000	22,000	39,000	51,000
Manganese	Mar	<30	<30	<30	280	<30	<30	<30	<30
	Aug	<30	<30	<30	81	<30	<30	<30	<30
Mercury	Mar	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Aug	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
	Nov	-	<0.2	-	-	-	-	-	-
Molybdenum	Mar	<25	<25	<25	<25	<25	<25	<25	<25
	Aug	<25	<25	<25	<25	<25	<25	<25	<25
	Nov	-	<25	-	-	-	-	-	-
Nickel	Mar	2.2	2.0	<2	19	<2	<2	<2	<2
	Aug	<2	<2	3.4	13	<2	2.0	<2	2.1
	Nov	-	<5	-	-	-	-	-	-
Potassium	Mar	5,500	5,600	12,000	13,000	12,000	10,000	6,000	5,700
	Aug	5,400	6,200	11,000	12,000	11,000	9,700	6,200	6,100
	Nov	-	5100	-	-	-	-	-	-
Selenium	Mar	10	6.1	<2	2.2	10	6.4	13	9.6
	Aug	6.5	4.5	3.5	3.4	9.2	2.6	12	6.7
	Nov	-	5.7	-	-	-	-	-	-
Silver	Mar	<10	<10	<1	<1	<1	<1	<1	<10
	Aug	<1	<1	<1	<1	<1	<1	<1	<1
	Nov	-	<0.5	-	-	-	-	-	-
Vanadium	Mar	<20	<20	<20	<20	<20	<20	<20	<20
	Aug	<20	<20	<20	<20	<20	<20	<20	<20
	Nov	-	<25	-	-	-	-	-	-
Zinc	Mar	<20	<20	<20	<20	<20	<20	<20	<20
	Aug	<20	<20	<20	<20	<20	<20	<20	<20
	Nov	-	<20	-	-	-	-	-	-

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015

Table A-10. Site 300 sewer pond ground water monitoring network second semester 2015 QA data.

Constituent	Units	W-7ES Nov 11 Routine	W-7ES Nov 11 Duplicate	W-7ES Nov 12 Routine	W-7ES Nov 12 Duplicate	W-26R-11 Nov 10 Routine	W-26R-11 Nov 10 Duplicate	W-26R-11 Nov 11 Routine	W-26R-11 Nov 11 Duplicate
pH	Units	7.9	7.9	-	-	7.9	8.0	-	-
Specific Conductance	µmhos/cm	1,610	1,610	-	-	1,470	1,480	-	-
Fecal Coliform	MPN/100mL	-	-	<1.8	<1.8	-	-	<1.8	<1.8
Total Coliform	MPN/100mL	-	-	<1.8	<1.8	-	-	<1.8	1.8
Nitrate (as NO ₃)	mg/L	12	12	-	-	27	13	-	-

**FIELD TRACKING FORM
INFLUENT TO SITE 300 SEWAGE POND**

Lab	Alpha Lab
CoC #	67712
Ship It #	200202

DATE: 9/29/15

TIME: 09:00

Special Instructions: Semi-Annual Sampling in 2nd and 4th Quarters (April & Oct) Samples should be taken after 1 p.m. during higher flow. Print collection time on sample bottles. BOD Hold Time 48hr. Conductivity/pH Hold Time 24hr.	pH meter calibrated	<u>9/29</u>
	Conductivity meter calibrated	<u>9/29</u>
	DO meter calibrated	<u>9/29</u>

Location	Field Measurements				Comments	Initials	Samples for Lab Analysis
	pH	COND	DO (PPM)	Temp (°C)			
3-ISWP-01-OW (Influent to Sewage Pond)	8.85	1477 µS	5.46	19.3		CL, KB	Analytical Codes: E120.1A & E150.1A (Conductivity/pH) (2 X 250-mL poly) <u>1</u>
3-WSWP-01-OW <i>duplicate of</i> 3-ISWP-01-OW							SM5210B-A (BOD) (1 X 1 Liter poly) <u>11</u>

2Q2015 Duplicate
4Q2015 Duplicate

See ESWP Field Tracking Form
SM5210B-A

Copy to Analysts, Rick Blake and Allen Grayson

FIELD TRACKING FORM
EAST END OF SITE 300 SEWAGE POND

DATE: 9/29/15

TIME: 0915

Lab	Alpha	BC
CoC #	67712	67713
Ship It #	200202	67712 200192

Special Instructions: Samples should be taken after 1 p.m. Print collection time on sample bottles. DO/conductivity/pH hold time 24 hr.	Semi-Annual Sampling in 2nd and 4th Quarters (April & Oct)		pH meter calibrated	<u>9/29</u>
			Conductivity meter calibrated	<u>9/29</u>
			DO meter calibrated	<u>9/29</u>

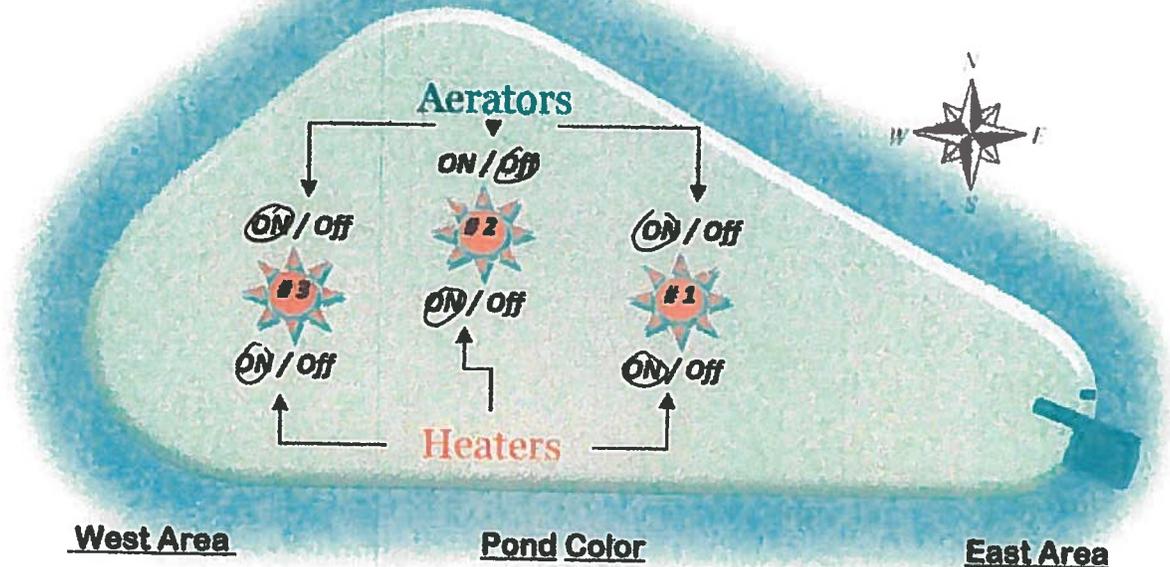
Location	Field Measurements					Comments	Initials	Samples for Lab Analysis	
	pH	COND	Depth	DO (PPM)	Temp (°C)			Analytical Codes:	
3-ESWP-01-OW (East end of Sewage Pond)	<u>8.29</u>	<u>5.72</u> <u>ns</u>	<u>1'</u>	<u>7.42</u>	<u>19.4</u>		<u>CR</u> <u>KB</u>	Alpha LAB E360.1 DO (1x300mL PET Poly with glass stopper) <u>1</u> E120.1A & E150.1A Conductivity/pH (2x250-mL poly) <u>1</u> SM9221 Total, Fecal Coliform (1x125mL sterilized poly) 6hr hold <u>1</u> SM5210B-A BOD (1x1 Liter poly) <u>1</u>	
3-WSWP-01-OW <i>duplicate of</i> 3-ESWP-01-OW								BC Labs S3METALS (1X500mL Poly) <u>1</u>	

2Q2015 Duplicate
 4Q2015 Duplicate

SM9221
 See ISWP Field Tracking Form

Copy to Analysts, Allen Grayson & Rick Blake

SITE 300 SEWER POND INSPECTION/MONITORING REPORT



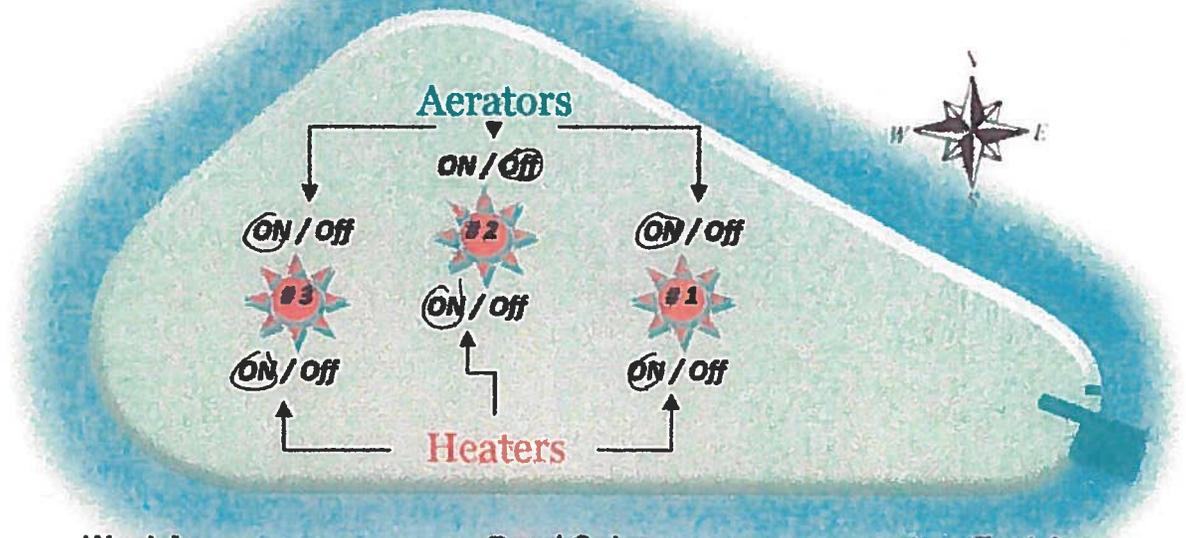
<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>22.2</u>	Green (X)	Water Temp <u>21.3</u>
Oxygen <u>8.02</u>	Green Brown ()	Oxygen <u>11.12</u>
pH <u>9.61</u>	Brown Green ()	pH <u>9.76</u>
Time <u>07:30</u>	Brown ()	Time <u>08:00</u>
Pond Water Level <u>+2"</u>	Air Temp <u>18.3</u>	Animal Burrows <u>SOME</u>
Water (Meter) Stop <u>282/29</u>	Wind Direction <u>W-E</u>	Weed Control <u>SOME</u>
Water (Meter) Start <u>222,752</u>	Erosion <u>SOME</u>	Pond Odor <u>SLIGHT</u>
Water Added <u>59,3??</u>		
Common Bacterium-Per Drop () Activated Sludge () Glass Tube Test () YSI Meter Test (X)		

Percolation Pond
 Erosion SOME
 Water Level DRY
 Weed Control SOME
 Animal Burrows SOME

Inspected By *Drew Jenkins* Date 7-7-15
 Supervisor Review *[Signature]* Date 7/7/15
 Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT

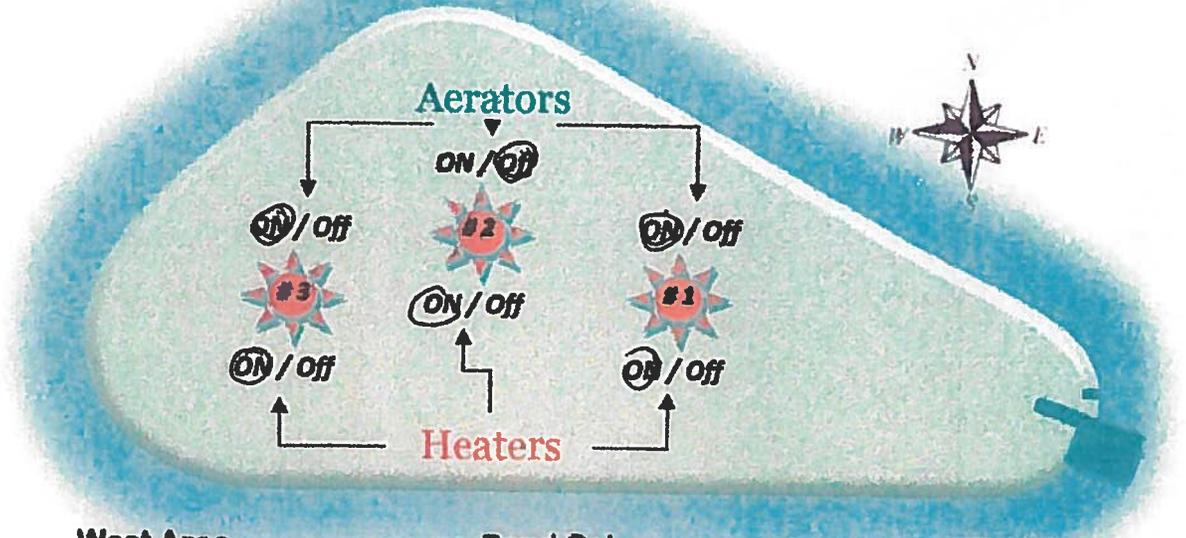


<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>18.7</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>18.7</u>
Oxygen <u>1.30</u>	Green Brown <input type="checkbox"/>	Oxygen <u>3.94</u>
pH <u>9.63</u>	Brown Green <input type="checkbox"/>	pH <u>9.75</u>
Time <u>07:30</u>	Brown <input type="checkbox"/>	Time <u>08:00</u>
Pond Water Level <u>+2 1/4"</u>	Air Temp <u>16.1</u>	Animal Burrows <u>SOME</u>
Water (Meter) Stop <u>30264</u>	Wind Direction <u>NONE</u>	Weed Control <u>SOME</u>
Water (Meter) Start <u>282129</u>	Erosion <u>SOME</u>	Pond Odor <u>NONE</u>
Water Added <u>20,482</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input type="checkbox"/> YSI Meter Test <input checked="" type="checkbox"/>		

<p><u>Percolation Pond</u></p> <p>Erosion <u>SOME</u></p> <p>Water Level <u>DRY</u></p> <p>Weed Control <u>SOME</u></p> <p>Animal Burrows <u>SOME</u></p>	<p>Inspected By <u><i>Devan Jende</i></u> Date <u>7-10-15</u></p> <p>Supervisor Review <u><i>[Signature]</i></u> Date <u>7/10/15</u></p> <p>Comments _____</p>
--	--

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>22.2</u>	Green (X)	Water Temp <u>20.6</u>
Oxygen <u>6.69</u>	Green Brown ()	Oxygen <u>10.71</u>
pH <u>9.96</u>	Brown Green ()	pH <u>9.83</u>
Time <u>07:00</u>	Brown ()	Time <u>07:30</u>
Pond Water Level <u>+13/4"</u>	Air Temp <u>18.3</u>	Animal Burrows <u>SOME</u>
Water (Meter) Stop <u>316284</u>	Wind Direction <u>W-E</u>	Weed Control <u>SOME</u>
Water (Meter) Start <u>302611</u>	Erosion <u>SOME</u>	Pond Odor <u>SLIGHT</u>
Water Added <u>13,673</u>		
Common Bacterium-Per Drop () Activated Sludge () Glass Tube Test () YSI Meter Test (X)		

Percolation Pond

Erosion SOME

Water Level DRY

Weed Control SOME

Animal Burrows SOME

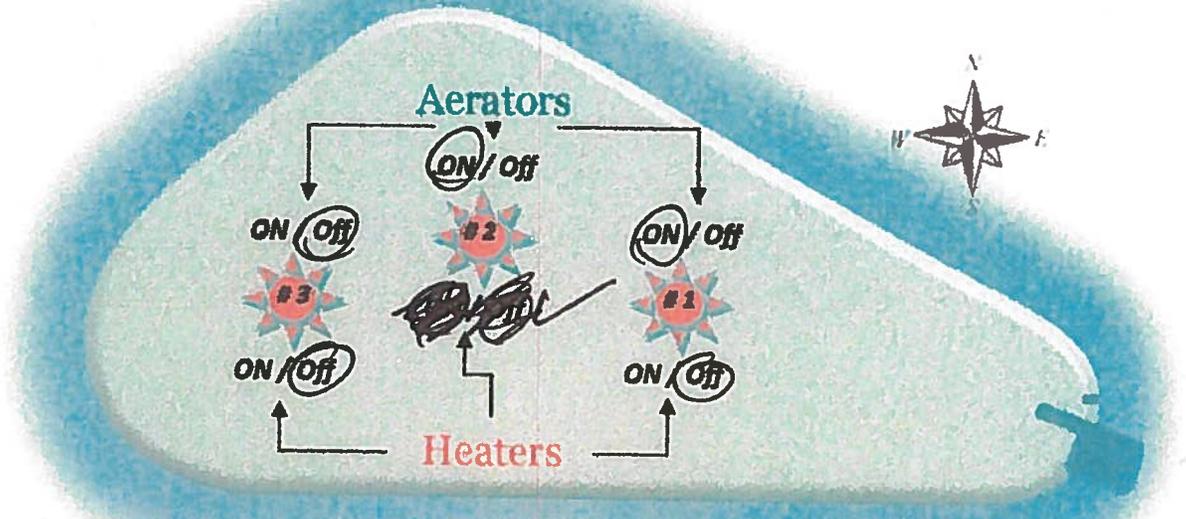
Inspected By Dwan Janderson Date 7-14-15

Supervisor Review [Signature] Date 7/14/15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>21</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>22.2</u>
Oxygen <u>11.1</u>	Green Brown <input type="checkbox"/>	Oxygen <u>8.6</u>
pH <u>9.8</u>	Brown Green <input type="checkbox"/>	pH <u>9.74</u>
Time <u>10:43</u>	Brown <input type="checkbox"/>	Time <u>11:10</u>
Pond Water Level <u>3"</u>	Air Temp <u>26°</u>	Animal Burrows <u>None</u>
Water (Meter) Stop <u>499450</u>	Wind Direction <u>W to E</u>	Weed Control <u>None</u>
Water (Meter) Start <u>468960</u>	Erosion <u>None</u>	Pond Oder <u>Slight</u>
Water Added <u>30,490</u>		

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

Percolation Pond

Erosion Some

Water Level 0

Weed Control None

Animal Burrows Some

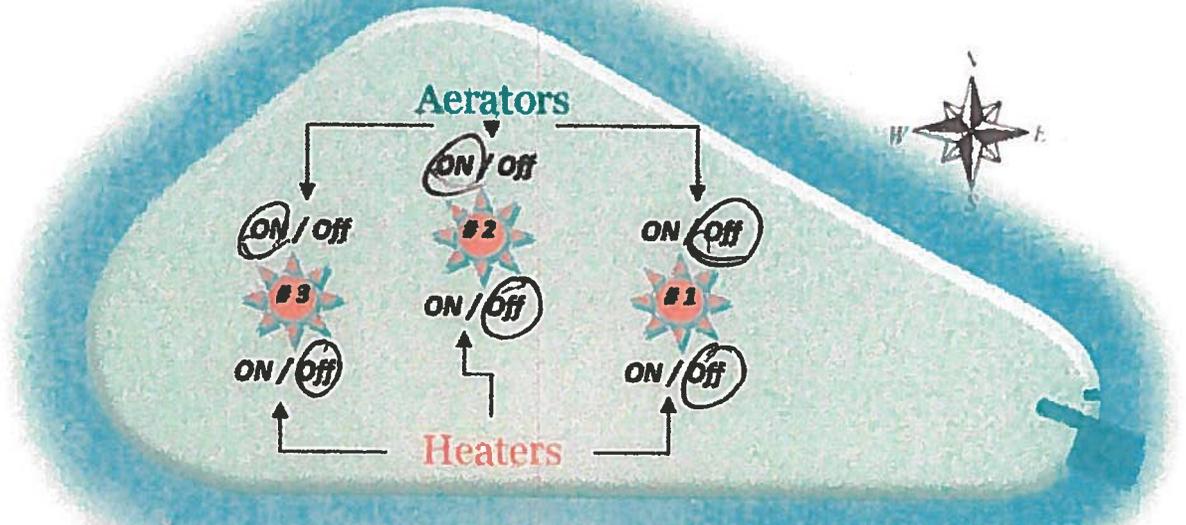
Inspected By David Rockstead Date 8-3-15

Supervisor Review JJ Mille Date 8-16-15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>23.1</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>23.6</u>
Oxygen <u>12</u>	Green Brown <input type="checkbox"/>	Oxygen <u>18</u>
pH <u>9.77</u>	Brown Green <input type="checkbox"/>	pH <u>9.7</u>
Time <u>11:40</u>	Brown <input type="checkbox"/>	Time <u>11:50</u>
Pond Water Level <u>9 1/4</u>	Air Temp <u>76°</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>553100</u>	Wind Direction <u>W → E</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>499480</u>	Erosion <u>Some</u>	Pond Oder <u>None</u>
Water Added <u>53680</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input checked="" type="checkbox"/> YSI Meter Test <input type="checkbox"/>		

Percolation Pond

Erosion Some

Water Level None

Weed Control Some

Animal Burrows Some

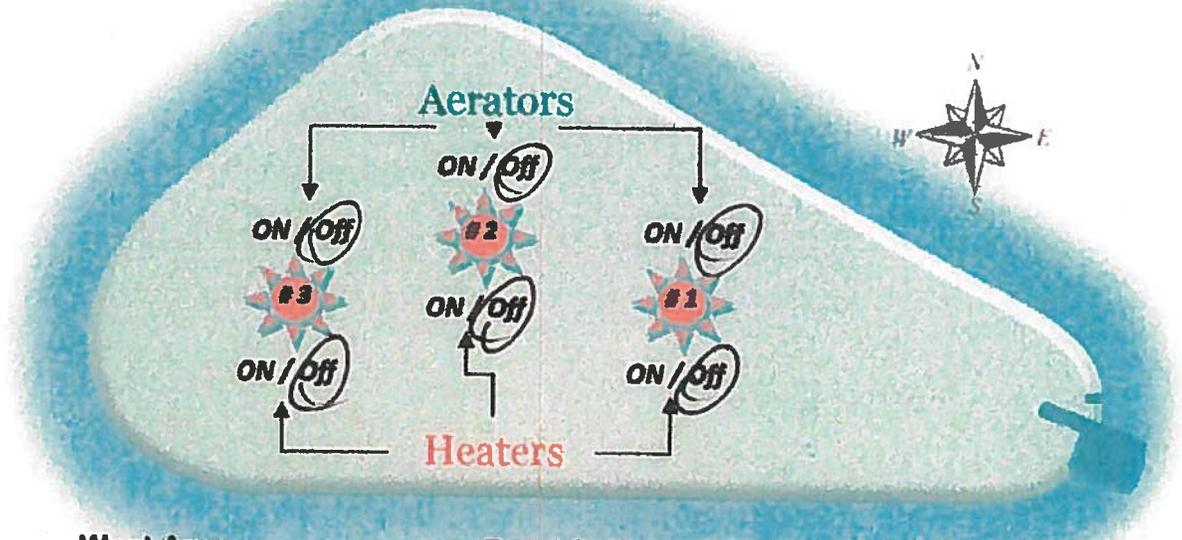
Inspected By David Ricketts Date 8-10-15

Supervisor Review J. J. Miller Date 8-10-15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>24.4</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>28.5</u>
Oxygen <u>11.33</u>	Green Brown <input type="checkbox"/>	Oxygen <u>13.5</u>
pH <u>9.6</u>	Brown Green <input type="checkbox"/>	pH <u>9.68</u>
Time <u>13:40</u>	Brown <input type="checkbox"/>	Time <u>14:00</u>
Pond Water Level <u>3 3/4</u>	Air Temp <u>89</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>574930</u>	Wind Direction <u>W → E</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>553100</u>	Erosion <u>Some</u>	Pond Oder <u>None</u>
Water Added <u>21830</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input type="checkbox"/> YSI Meter Test <input type="checkbox"/>		

Percolation Pond

Erosion Some

Water Level Some

Weed Control Some

Animal Burrows Some

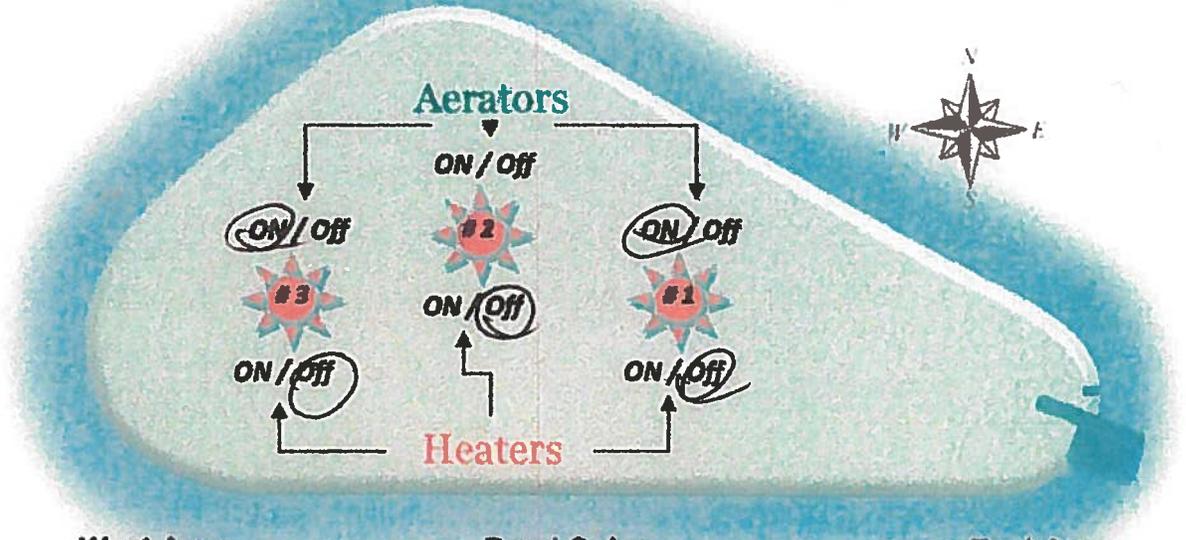
Inspected By David Rockstead Date 8-13-18

Supervisor Review g g Miller Date 8-13-18

Comments Sludge Judget Pond mixed results.

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



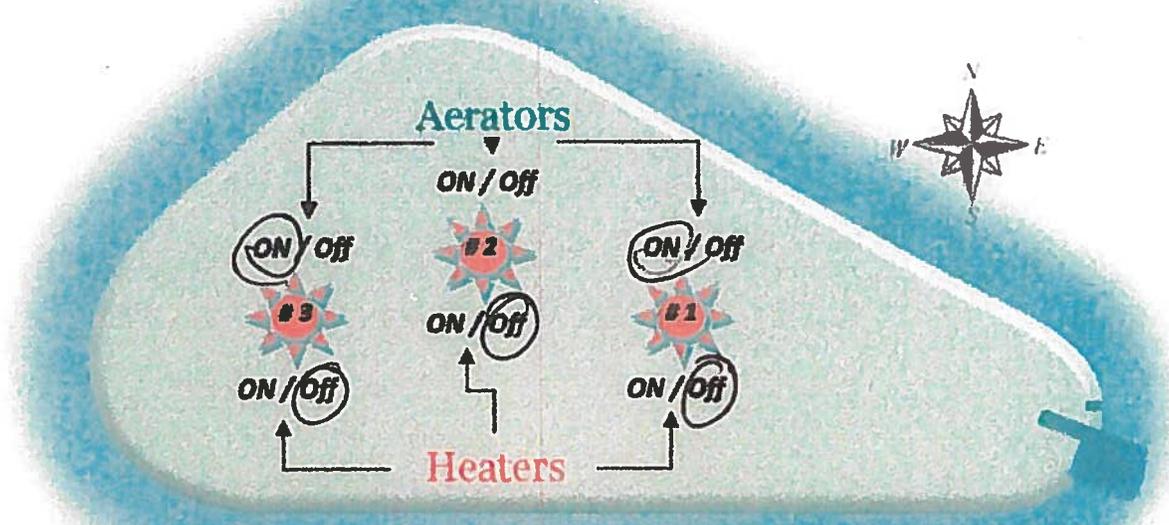
<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>28.8</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>25.2</u>
Oxygen <u>10.6</u>	Green Brown <input type="checkbox"/>	Oxygen <u>9.8</u>
pH <u>10.5</u>	Brown Green <input type="checkbox"/>	pH <u>10.4</u>
Time <u>12:12</u>	Brown <input type="checkbox"/>	Time <u>12:04</u>
Pond Water Level <u>4 1/4</u>	Air Temp <u>91</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>611740</u>	Wind Direction <u>None</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>574930</u>	Erosion <u>Some</u>	Pond Oder <u>None</u>
Water Added <u>36810</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input type="checkbox"/> YSI Meter Test <input checked="" type="checkbox"/>		

Percolation Pond
 Erosion Some
 Water Level None
 Weed Control Some
 Animal Burrows Some

Inspected By David Rockstead Date 8-18-15
 Supervisor Review JJ Miller Date 8-20-15
 Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>26.0</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>25.3</u>
Oxygen <u>18.0</u>	Green Brown <input type="checkbox"/>	Oxygen <u>13.8</u>
pH <u>10.3</u>	Brown Green <input type="checkbox"/>	pH <u>10.2</u>
Time <u>13:01</u>	Brown <input type="checkbox"/>	Time <u>13:08</u>
Pond Water Level <u>3 3/4 2 3/4</u>	Air Temp <u>98°</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>61740</u>	Wind Direction <u>W+E</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>61740</u>	Erosion <u>Some</u>	Pond Oder <u>Slight</u>
Water Added <u>0</u>		

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

Percolation Pond

Erosion Some

Water Level 0

Weed Control Some

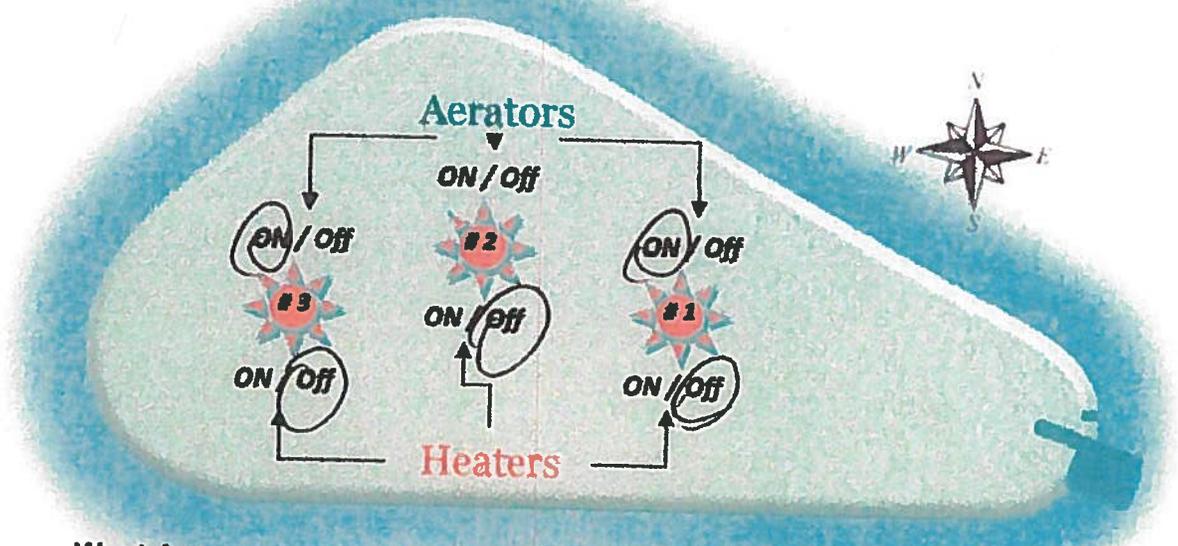
Animal Burrows Some

Inspected By David Rockstead Date 8-26-15

Supervisor Review JJ Malle Date 8-26-15

Comments _____

SITE 300 SEWER POND INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>29.2</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>28.1</u>
Oxygen <u>21.6</u>	Green Brown <input type="checkbox"/>	Oxygen <u>23.4</u>
pH <u>10.0</u>	Brown Green <input type="checkbox"/>	pH <u>10.0</u>
Time <u>14:14</u>	Brown <input type="checkbox"/>	Time <u>14:10</u>
Pond Water Level <u>2 1/2</u>	Air Temp <u>100</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>614520</u>	Wind Direction <u>W - E</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>611740</u>	Erosion <u>Some</u>	Pond Oder <u>Slight</u>
Water Added <u>2700</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input type="checkbox"/> YSI Meter Test <input checked="" type="checkbox"/>		

Percolation Pond

Erosion Some

Water Level Some

Weed Control Some

Animal Burrows Some

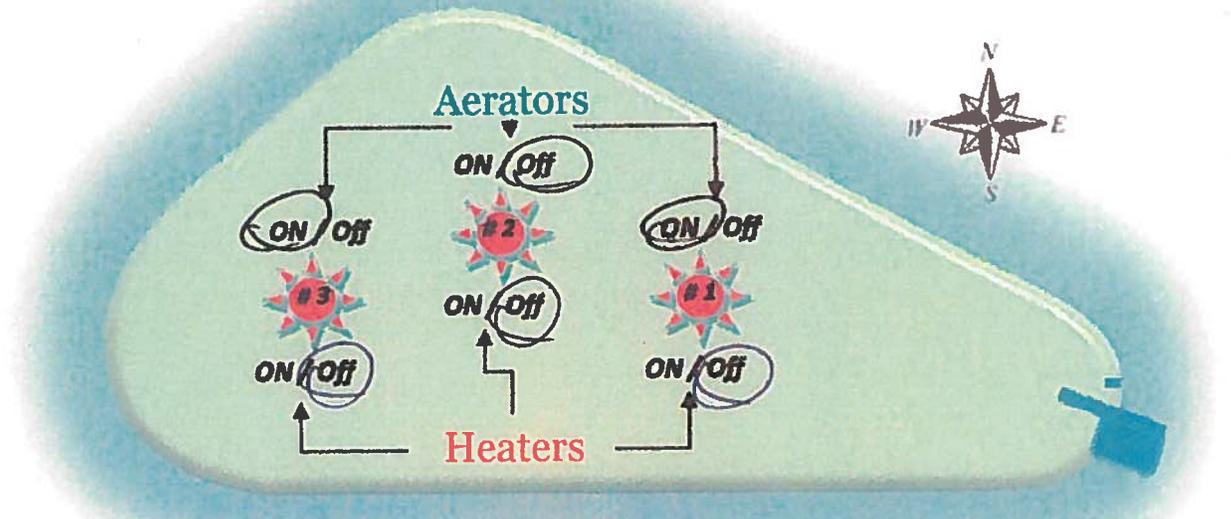
Inspected By David Rocksteal Date 8-27-15

Supervisor Review JJ Miller Date 8-27-15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>23.0</u>	Green (<input checked="" type="checkbox"/>)	Water Temp <u>23.8</u>
Oxygen <u>14.8</u>	Green Brown (<input type="checkbox"/>)	Oxygen <u>21.6</u>
pH <u>10.1</u>	Brown Green (<input type="checkbox"/>)	pH <u>10.0</u>
Time <u>14:29</u>	Brown (<input type="checkbox"/>)	Time <u>14:24</u>
Pond Water Level <u>2 3/4</u>	Air Temp <u>75°</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>656520</u>	Wind Direction <u>W → E</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>614520</u>	Erosion <u>Some</u>	Pond Oder <u>None</u>
Water Added <u>42000</u>		
Common Bacterium-Per Drop (<input type="checkbox"/>) Activated Sludge (<input type="checkbox"/>) Glass Tube Test (<input type="checkbox"/>) YSI Meter Test (<input checked="" type="checkbox"/>)		

Percolation Pond

Erosion Some

Water Level 0

Weed Control Some

Animal Burrows Some

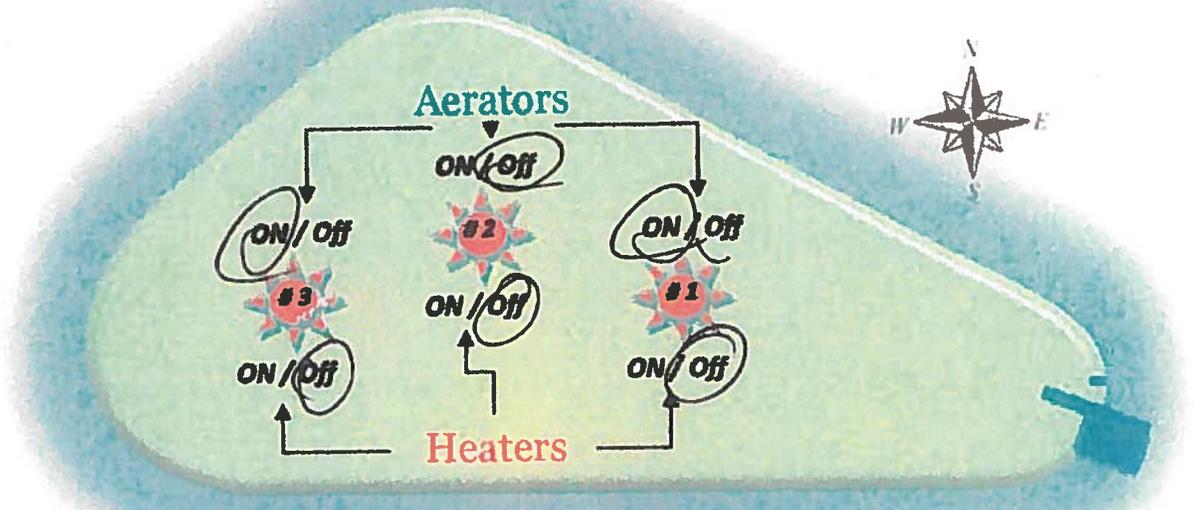
Inspected By David Rockstead Date 9-3-15.

Supervisor Review JJ Miller PLO Date 9-8-15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



West Area
 Water Temp 27.7
 Oxygen 16.0
 pH 10.07
 Time 14:02

Pond Color
 Green
 Green Brown
 Brown Green
 Brown

East Area
 Water Temp 24.0
 Oxygen 10.2
 pH 10.04
 Time 13:42

Pond Water Level 3 1/2
 Water (Meter) Stop 708480
 Water (Meter) Start 656520
 Water Added 51960

Air Temp 101°
 Wind Direction None
 Erosion Some

Animal Burrows Some
 Weed Control Some
 Pond Oder Slight

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

Percolation Pond

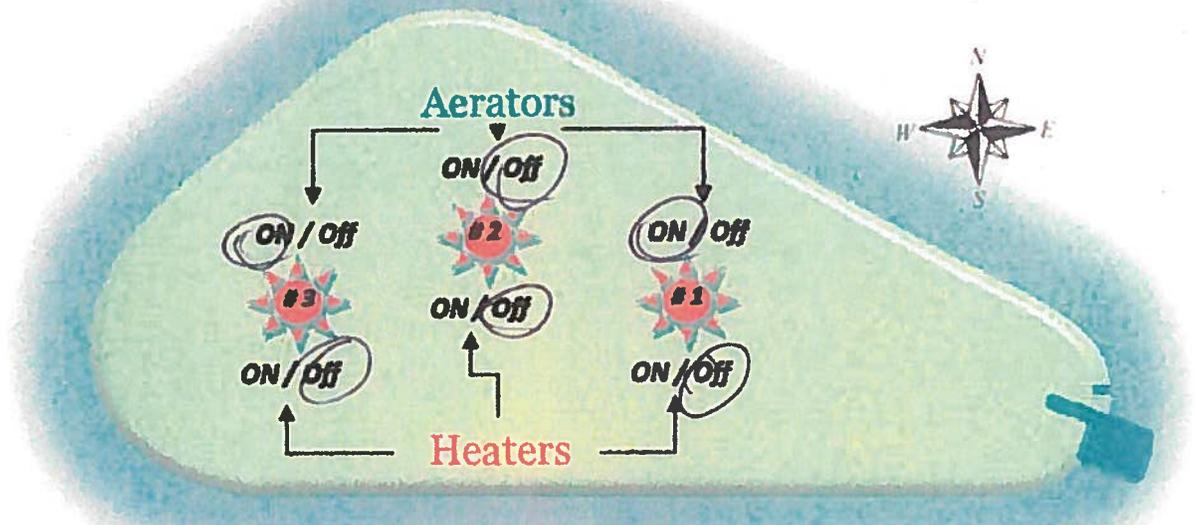
Erosion Some
 Water Level 0
 Weed Control Some
 Animal Burrows Some

Inspected By David Rocketstead Date 9-9-15

Supervisor Review JJ Miller Date 9-9-15

Comments _____

SITE 300 SEWER POND INSPECTION/MONITORING REPORT



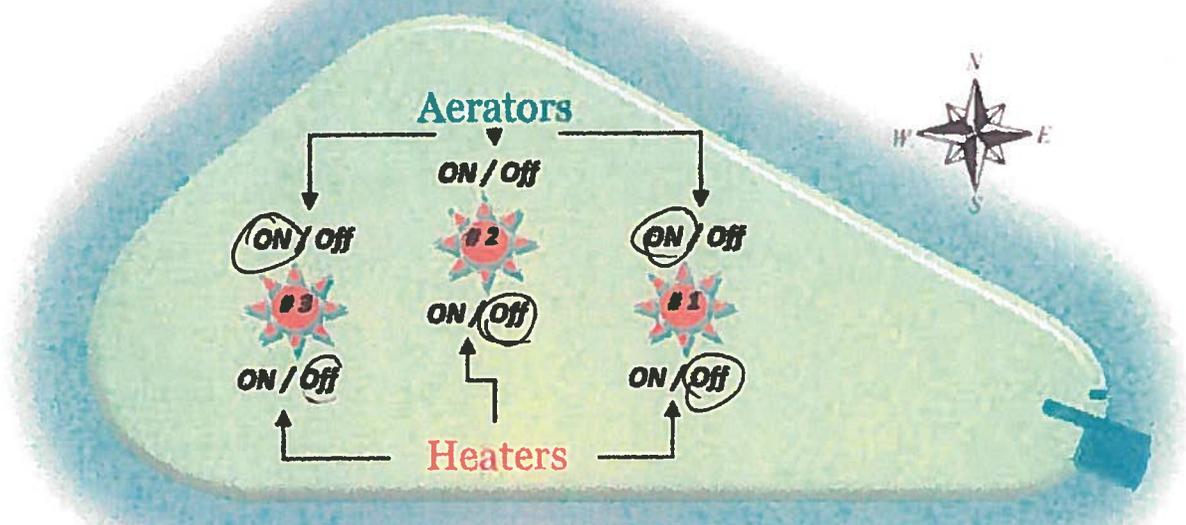
<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>23.3</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>23.0</u>
Oxygen <u>20.3</u>	Green Brown <input type="checkbox"/>	Oxygen <u>19.4</u>
pH <u>9.97</u>	Brown Green <input type="checkbox"/>	pH <u>9.96</u>
Time <u>14:36</u>	Brown <input type="checkbox"/>	Time <u>14:29</u>
Pond Water Level <u>3 3/4</u>	Air Temp <u>73</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>756320</u>	Wind Direction <u>None</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>656520</u>	Erosion <u>Some</u>	Pond Oder <u>None</u>
Water Added <u>99 800</u>		

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

Percolation Pond
 Erosion Some
 Water Level 0
 Weed Control Some
 Animal Burrows Some

Inspected By David Rockstead Date 9-14-11
 Supervisor Review JJ Miller Date 9-24-11
 Comments _____

SITE 300 SEWER POND INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>23.1</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>22.8</u>
Oxygen <u>23.8</u>	Green Brown <input type="checkbox"/>	Oxygen <u>19.6</u>
pH <u>10.1</u>	Brown Green <input type="checkbox"/>	pH <u>9.65</u>
Time <u>13:44</u>	Brown <input type="checkbox"/>	Time <u>14:00</u>
Pond Water Level <u>4</u>	Air Temp <u>77</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>771340</u>	Wind Direction <u>None</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>656520</u>	Erosion <u>Some</u>	Pond Oder <u>None</u>
Water Added <u>114820</u>		

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

Percolation Pond

Erosion Some

Water Level 0

Weed Control Some

Animal Burrows Some

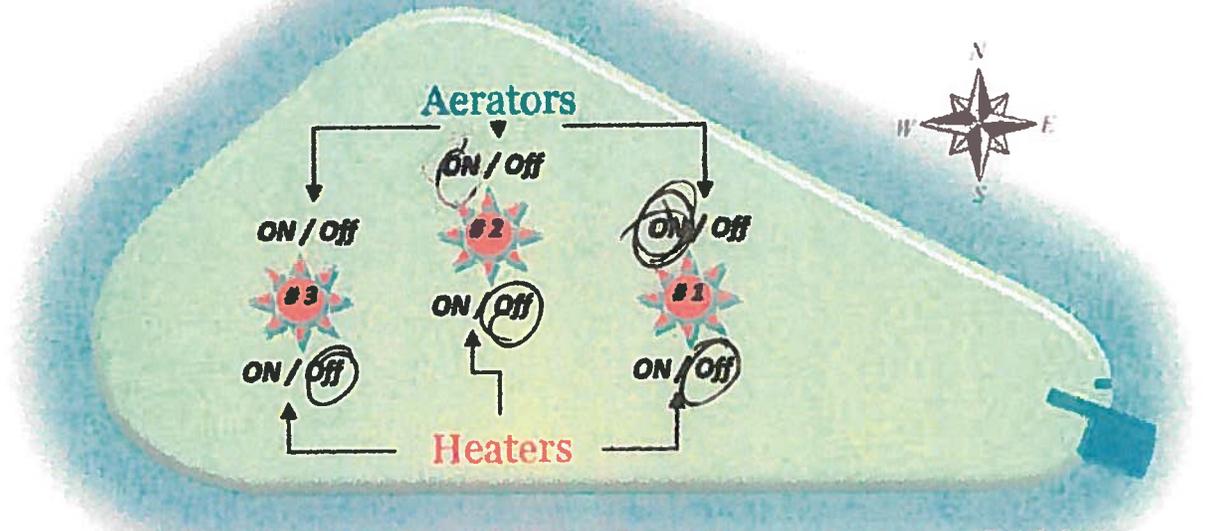
Inspected By David Rockstead Date 9-16-15

Supervisor Review J J m lla Date 9-24-15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>23.6</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>25.1</u>
Oxygen <u>18.2</u>	Green Brown <input type="checkbox"/>	Oxygen <u>15.8</u>
pH <u>9.97</u>	Brown Green <input type="checkbox"/>	pH <u>9.77</u>
Time <u>13:29</u>	Brown <input type="checkbox"/>	Time <u>13:19</u>

Pond Water Level <u>4</u>	Air Temp <u>88</u>	Animal Burrows <u>Some</u>
+17,000 gal from Water (Meter) Stop <u>771660</u>	Wind Direction <u>W to E</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>771340</u>	Erosion <u>Some</u>	Pond Oder <u>None</u>
UH Flush Water Added <u>6320 + 17,000 = 23,320</u>		

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

Percolation Pond

Erosion Some

Water Level 0

Weed Control Some

Animal Burrows Some

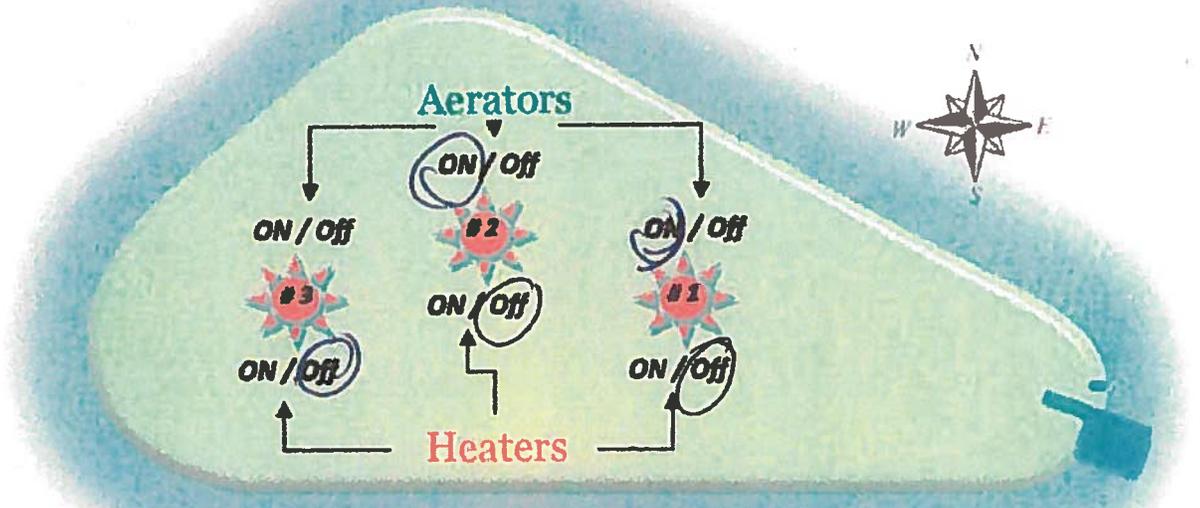
Inspected By David Rockstead Date 9-22-15

Supervisor Review [Signature] Date 9-24-15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT

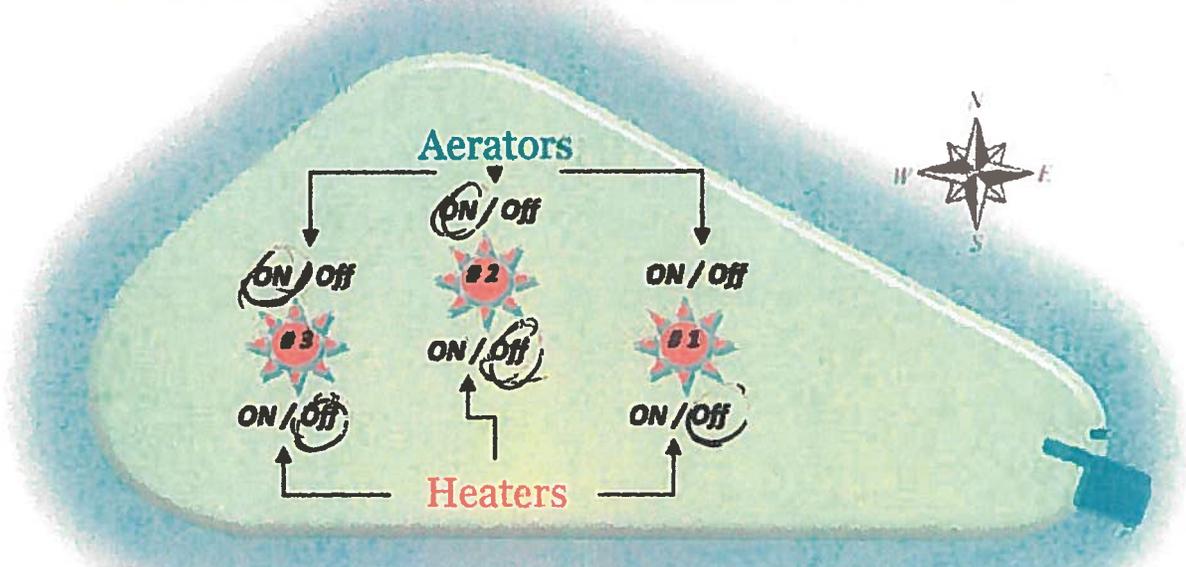


<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>24.3</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>24.3</u>
Oxygen <u>19.4</u>	Green Brown <input type="checkbox"/>	Oxygen <u>19.7</u>
pH <u>9.91</u>	Brown Green <input type="checkbox"/>	pH <u>9.9</u>
Time <u>15:01</u>	Brown <input type="checkbox"/>	Time <u>14:56</u>
Pond Water Level <u>4 1/2</u>	Air Temp <u>88°F</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>790080</u>	Wind Direction <u>E to W</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>77660</u>	Erosion <u>Some</u>	Pond Oder <u>None</u>
Water Added <u>12,420</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input type="checkbox"/> YSI Meter Test <input checked="" type="checkbox"/>		

<p><u>Percolation Pond</u></p> <p>Erosion <u>Some</u></p> <p>Water Level <u>0</u></p> <p>Weed Control <u>Some</u></p> <p>Animal Burrows <u>Some</u></p>	<p>Inspected By <u>David Rockstead</u> Date <u>9-24-15</u></p> <p>Supervisor Review <u>JJ Miller</u> Date <u>9-24-15</u></p> <p>Comments _____</p>
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SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>22.1</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>21.9</u>
Oxygen <u>15.1</u>	Green Brown <input type="checkbox"/>	Oxygen <u>15.1</u>
pH <u>9.8</u>	Brown Green <input type="checkbox"/>	pH <u>9.8</u>
Time <u>13:36</u>	Brown <input type="checkbox"/>	Time <u>13:40</u>
Pond Water Level <u>4 3/4</u>	Air Temp <u>79</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>814100</u>	Wind Direction <u>None</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>790080</u>	Erosion <u>Some</u>	Pond Oder <u>None</u>
Water Added <u>24.020</u>		

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

Percolation Pond

Erosion Some

Water Level 0

Weed Control Some

Animal Burrows Some

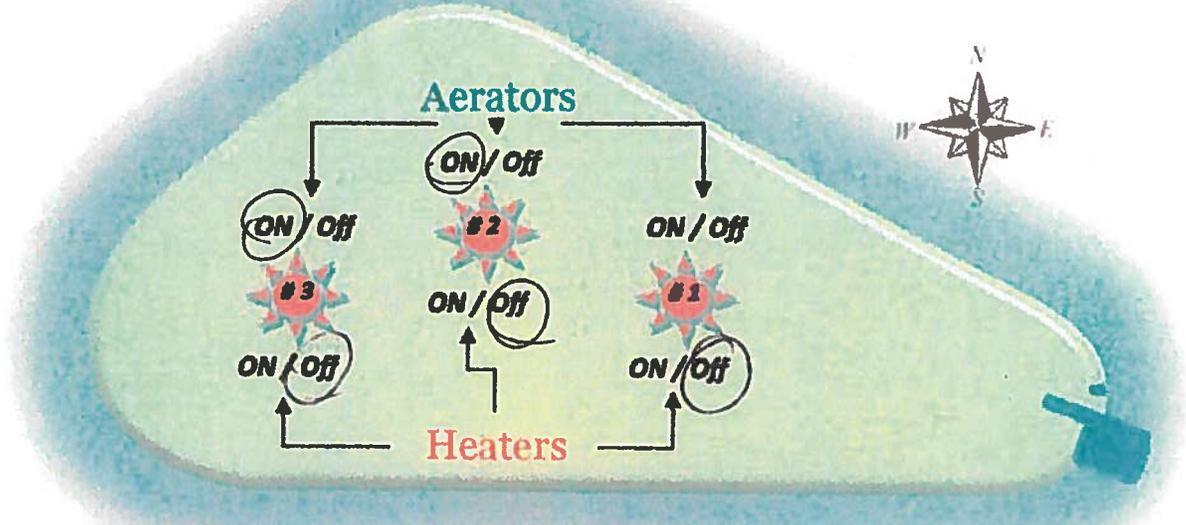
Inspected By David Rockstead Date 9-29-15

Supervisor Review JJ Miller Date 10-21-15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>20.7</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>20.3</u>
Oxygen <u>16.0</u>	Green Brown <input type="checkbox"/>	Oxygen <u>10.5</u>
pH <u>9.8.3</u>	Brown Green <input type="checkbox"/>	pH <u>9.7</u>
Time <u>15:41</u>	Brown <input type="checkbox"/>	Time <u>15:33</u>
Pond Water Level <u>4 3/4</u>	Air Temp <u>77</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>---</u>	Wind Direction <u>E to W</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>---</u>	Erosion <u>Some</u>	Pond Oder <u>Some</u>
Water Added <u>0</u>		

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

Percolation Pond

Erosion Some

Water Level 0

Weed Control Some

Animal Burrows Some

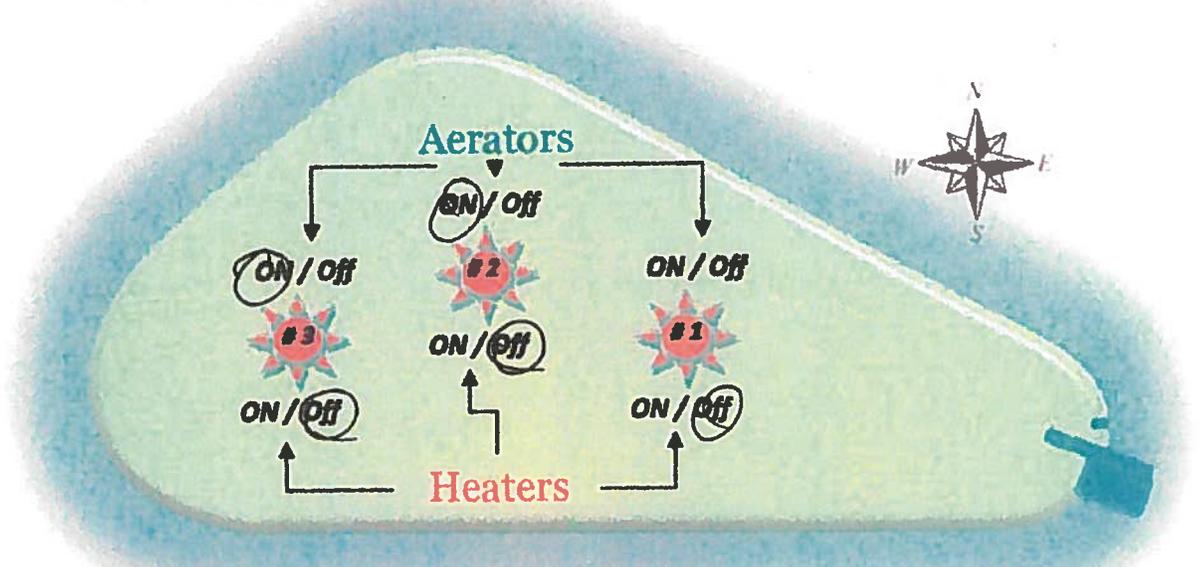
Inspected By Rockstead Date 10-1-15

Supervisor Review J. Miller Date 10-1-15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



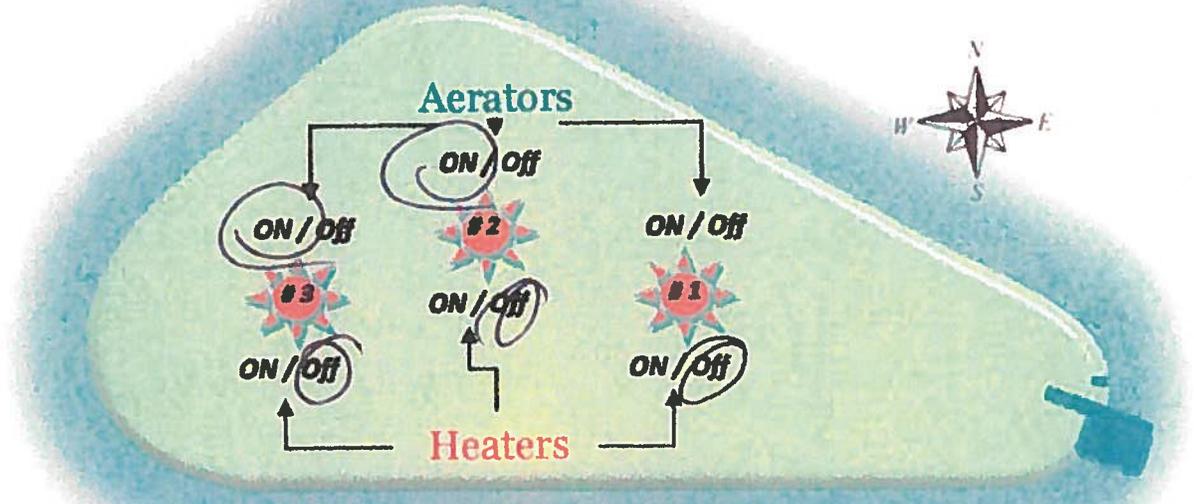
<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>20.8</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>18.6</u>
Oxygen <u>9.</u>	Green Brown <input type="checkbox"/>	Oxygen <u>6</u>
pH <u>9.84</u>	Brown Green <input type="checkbox"/>	pH <u>9.8</u>
Time <u>10:47</u>	Brown <input type="checkbox"/>	Time <u>10:3</u>
Pond Water Level <u>4 1/4</u>	Air Temp <u>78</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>—</u>	Wind Direction <u>E to W</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>—</u>	Erosion <u>Some</u>	Pond Oder <u>Some</u>
Water Added <u>0</u>		

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

<p><u>Percolation Pond</u></p> <p>Erosion <u>Some</u></p> <p>Water Level <u>None</u></p> <p>Weed Control <u>Some</u></p> <p>Animal Burrows <u>Some</u></p>	<p>Inspected By <u>Rockstead</u> Date <u>10-5-15</u></p> <p>Supervisor Review <u>JF Miller</u> Date <u>10-5-15</u></p> <p>Comments _____</p>
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SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>25</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>23.4</u>
Oxygen <u>11</u>	Green Brown <input type="checkbox"/>	Oxygen <u>8</u>
pH <u>9.2</u>	Brown Green <input type="checkbox"/>	pH <u>8.9</u>
Time <u>14:20</u>	Brown <input type="checkbox"/>	Time <u>14:00</u>
Pond Water Level <u>+3 1/2</u>	Air Temp <u>88</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>---</u>	Wind Direction <u>None</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>---</u>	Erosion <u>Some</u>	Pond Oder <u>Some</u>
Water Added <u>0</u>		

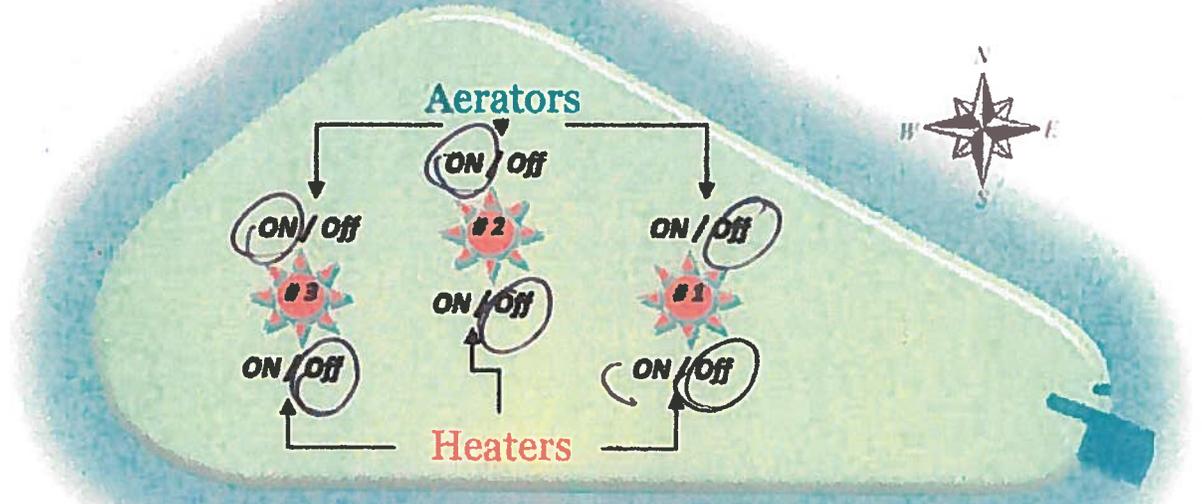
Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

Percolation Pond
 Erosion Some
 Water Level 0
 Weed Control Some
 Animal Burrows Some

Inspected By D Ricketstead Date 10-13-15
 Supervisor Review JJ Miller Date 10-19-15
 Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



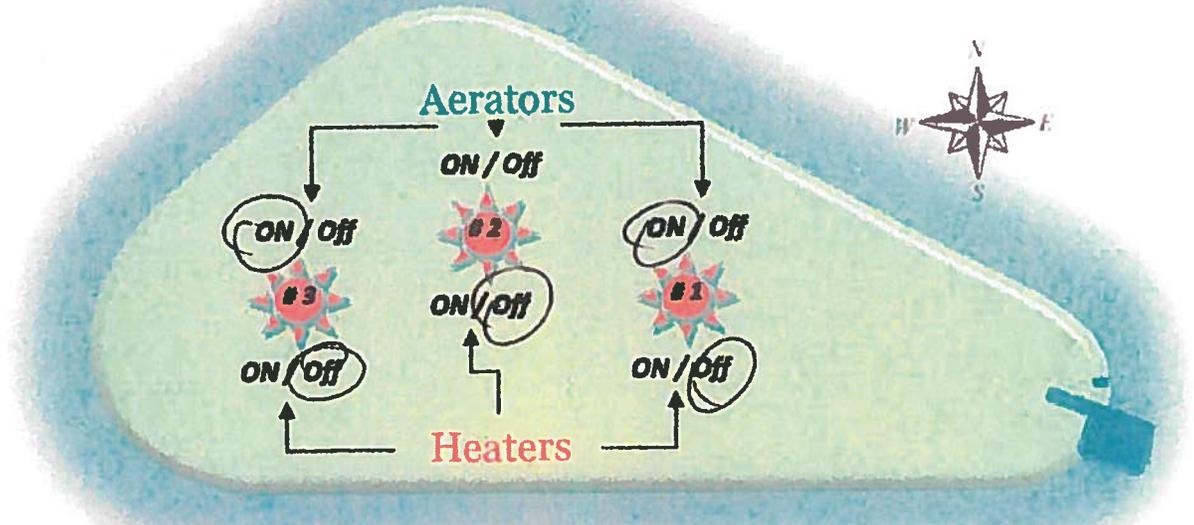
<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>23.9</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>24.4</u>
Oxygen <u>7</u>	Green Brown <input type="checkbox"/>	Oxygen <u>12</u>
pH <u>9.3</u>	Brown Green <input type="checkbox"/>	pH <u>9.25</u>
Time <u>14:35</u>	Brown <input type="checkbox"/>	Time <u>14:50</u>
Pond Water Level <u>+3 1/4</u>	Air Temp <u>87</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>—</u>	Wind Direction <u>E to W</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>—</u>	Erosion <u>Some</u>	Pond Oder <u>Some</u>
Water Added <u>0</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input checked="" type="checkbox"/> YSI Meter Test <input type="checkbox"/>		

Percolation Pond
 Erosion Some
 Water Level 0
 Weed Control Some
 Animal Burrows Some

Inspected By D. Fokstead Date 10-15-15
 Supervisor Review JJ Miller Date 10-19-15
 Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>21.3</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>20.9</u>
Oxygen <u>15.2</u>	Green Brown <input type="checkbox"/>	Oxygen <u>8.61</u>
pH <u>9.22</u>	Brown Green <input type="checkbox"/>	pH <u>9.39</u>
Time <u>15:15</u>	Brown <input type="checkbox"/>	Time <u>15:00</u>
Pond Water Level <u>3 1/2'</u>	Air Temp <u>88</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>—</u>	Wind Direction <u>None</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>—</u>	Erosion <u>Some</u>	Pond Oder <u>Some</u>
Water Added <u>0</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input type="checkbox"/> YSI Meter Test <input checked="" type="checkbox"/>		

Percolation Pond

Erosion Some

Water Level 0

Weed Control Some

Animal Burrows Some

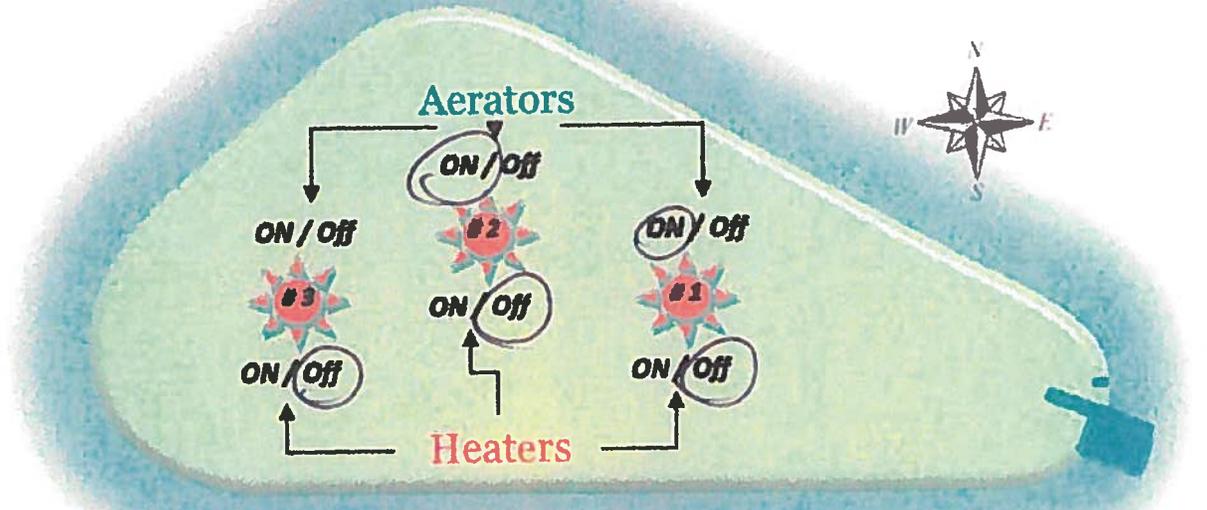
Inspected By Rockstead Date 10-21-15

Supervisor Review JJ Miller Date 10-21-15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>18.2</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>18.1</u>
Oxygen <u>8.55</u>	Green Brown <input type="checkbox"/>	Oxygen <u>9.68</u>
pH <u>9.37</u>	Brown Green <input type="checkbox"/>	pH <u>9.37</u>
Time <u>13:15</u>	Brown <input type="checkbox"/>	Time <u>13:10</u>
Pond Water Level <u>2 1/2</u>	Air Temp <u>68</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u> </u>	Wind Direction <u>E to W</u>	Weed Control <u>Some</u>
Water (Meter) Start <u>814/100</u>	Erosion <u>Some</u>	Pond Oder <u>Some</u>
Water Added <u>0</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input type="checkbox"/> YSI Meter Test <input checked="" type="checkbox"/>		

Percolation Pond

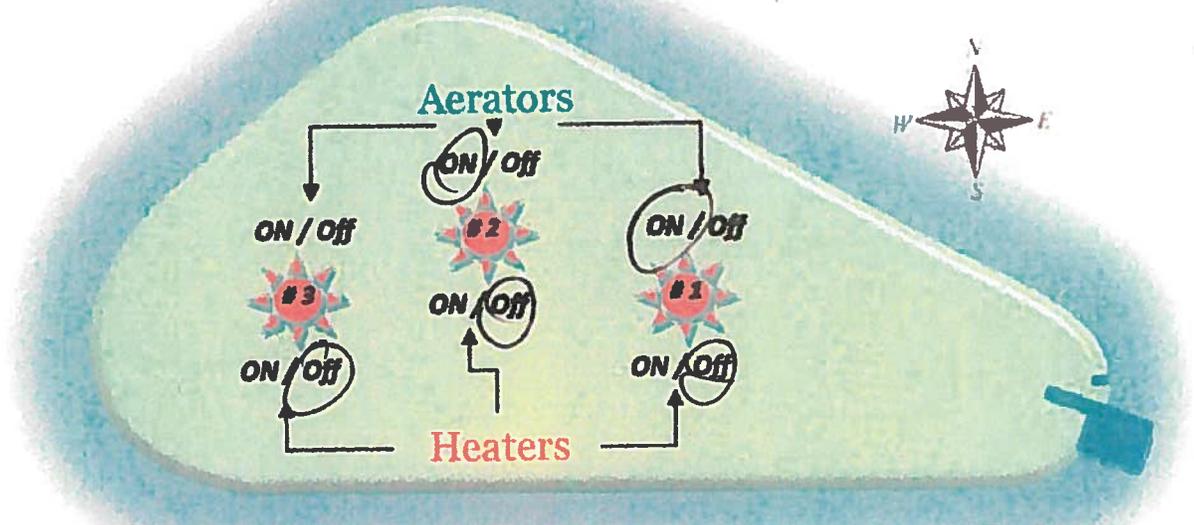
Erosion Some
 Water Level 0
 Weed Control Some
 Animal Burrows Some

Inspected By David Rockstead Date 10-27-15

Supervisor Review J. J. Malle Date 10-27-15
 Comments add water

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT

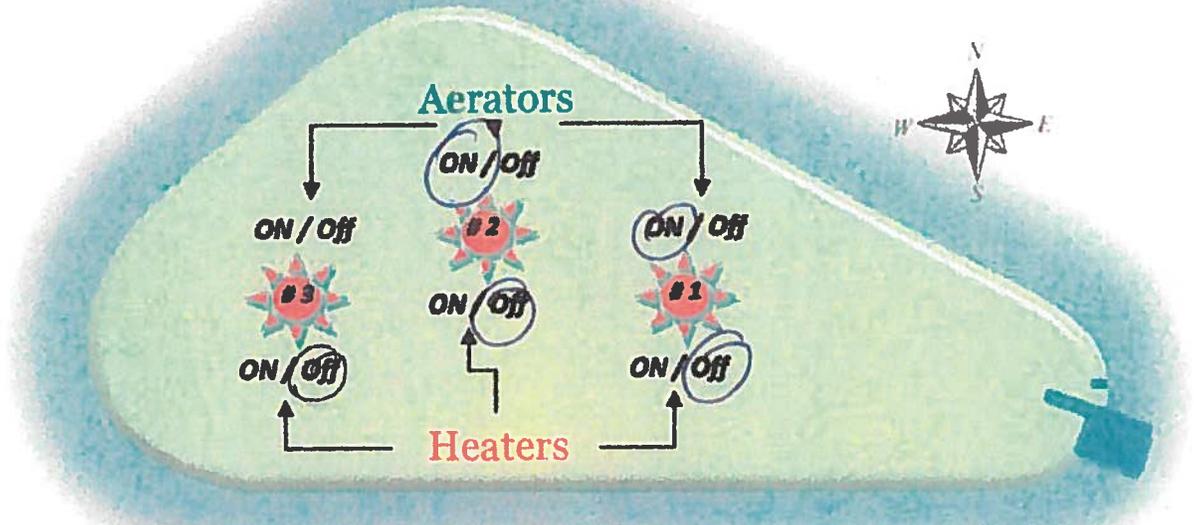


<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>18.2</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>17.9</u>
Oxygen <u>9.35</u>	Green Brown <input type="checkbox"/>	Oxygen <u>10.24</u>
pH <u>9.36</u>	Brown Green <input type="checkbox"/>	pH <u>9.35</u>
Time <u>11:15</u>	Brown <input type="checkbox"/>	Time <u>11:00</u>
Pond Water Level <u>3</u>	Air Temp <u>68</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>0826020</u>	Wind Direction <u>N to S</u>	Weed Control <u>some</u>
Water (Meter) Start <u>0814100</u>	Erosion <u>some</u>	Pond Oder <u>Some</u>
Water Added <u>11,920</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input type="checkbox"/> YSI Meter Test <input checked="" type="checkbox"/>		

<p><u>Percolation Pond</u></p> <p>Erosion <u>Some</u></p> <p>Water Level <u>0</u></p> <p>Weed Control <u>Some</u></p> <p>Animal Burrows <u>Some</u></p>	<p>Inspected By <u>Dave Rockstead</u> Date <u>10-29-15</u></p> <p>Supervisor Review <u>J. J. Miller</u> Date <u>10-29-15</u></p> <p>Comments _____</p> <p>_____</p>
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SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



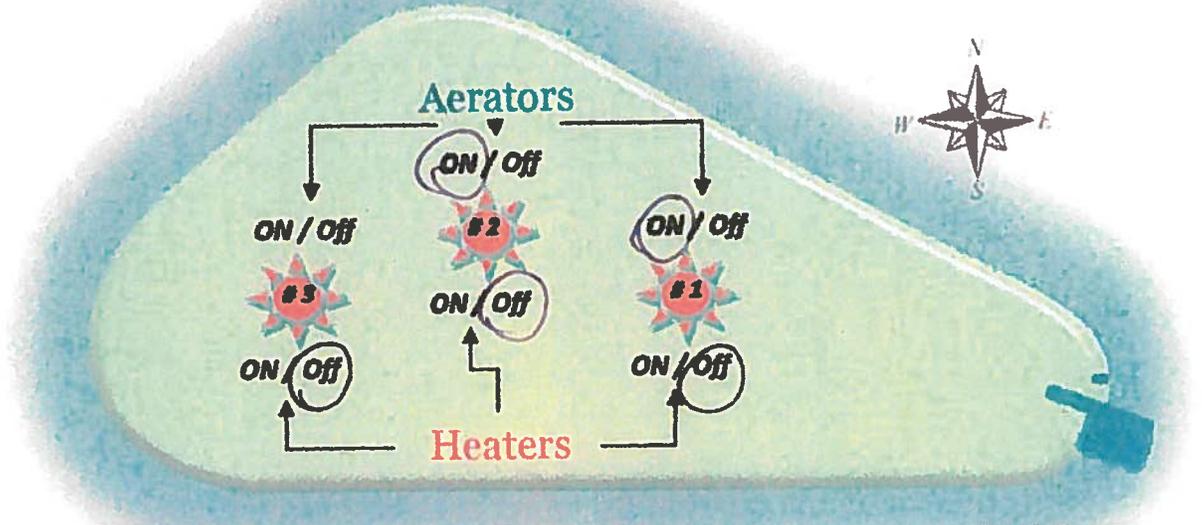
<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>18.6</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>19</u>
Oxygen <u>6.88</u>	Green Brown <input type="checkbox"/>	Oxygen <u>8.5</u>
pH <u>9.33</u>	Brown Green <input type="checkbox"/>	pH <u>9.35</u>
Time <u>13:40</u>	Brown <input type="checkbox"/>	Time <u>13:20</u>
Pond Water Level <u>4 1/2</u>	Air Temp <u>60</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop <u>852010</u>	Wind Direction <u>W to E</u>	Weed Control <u>Some</u>
Water (Meter) Start _____	Erosion <u>Some</u>	Pond Oder <u>Some</u>
Water Added _____		

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

<u>Percolation Pond</u>	<u>Inspected By</u>	<u>Date</u>
Erosion <u>Some</u>	<u>David Rockstead</u>	<u>11-2-15</u>
Water Level <u>Slight from Rain</u>	<u>JJ Miller</u>	<u>11-2-15</u>
Weed Control <u>Some</u>	Comments _____	
Animal Burrows <u>Some</u>		

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT

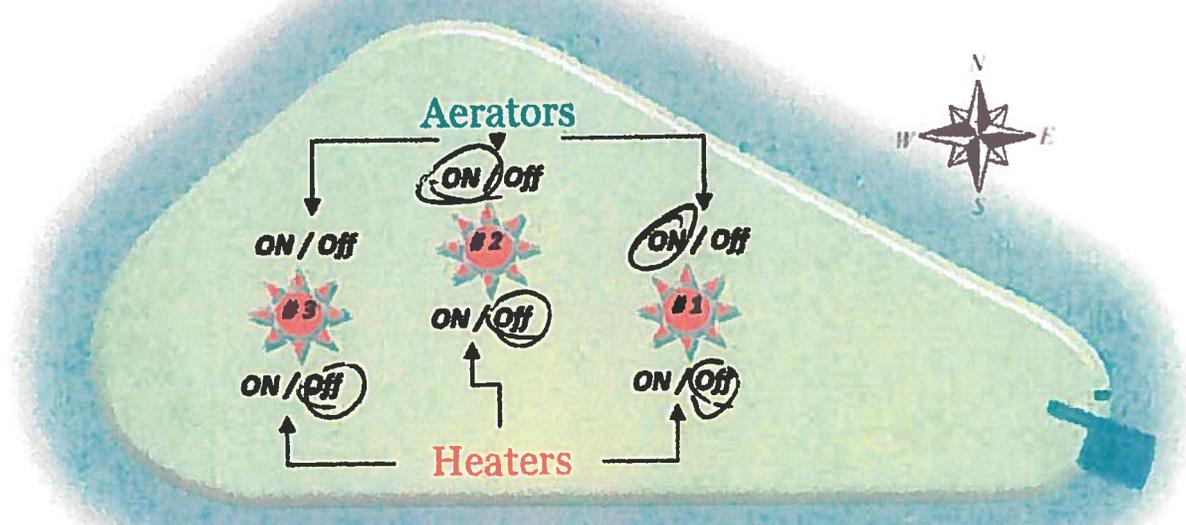


<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>13.3</u>	Green (<input checked="" type="checkbox"/>)	Water Temp <u>14.4</u>
Oxygen <u>10.81</u>	Green Brown (<input type="checkbox"/>)	Oxygen <u>10.54</u>
pH <u>9.37</u>	Brown Green (<input type="checkbox"/>)	pH <u>9.36</u>
Time <u>13:20</u>	Brown (<input type="checkbox"/>)	Time <u>13:10</u>
Pond Water Level <u>5 1/4</u>	Air Temp <u>56</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop _____	Wind Direction <u>NONE</u>	Weed Control <u>Some</u>
Water (Meter) Start _____	Erosion <u>Some</u>	Pond Oder <u>Slight</u>
Water Added <u>0</u>		
Common Bacterium-Per Drop (<input type="checkbox"/>) Activated Sludge (<input type="checkbox"/>) Glass Tube Test (<input type="checkbox"/>) YSI Meter Test (<input checked="" type="checkbox"/>)		

<p><u>Percolation Pond</u></p> <p>Erosion <u>Some</u></p> <p>Water Level <u>1/2"</u></p> <p>Weed Control <u>Some</u></p> <p>Animal Burrows <u>Some</u></p>	<p>Inspected By <u>Rockstead</u> Date <u>11-12-15.</u></p> <p>Supervisor Review <u>Jf Miller</u> Date <u>11-17-15</u></p> <p>Comments _____</p>
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SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>12</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>11.9</u>
Oxygen <u>11.2</u>	Green Brown <input type="checkbox"/>	Oxygen <u>8.97</u>
pH <u>9.3</u>	Brown Green <input type="checkbox"/>	pH <u>9.3</u>
Time <u>11:20</u>	Brown <input type="checkbox"/>	Time <u>11:00</u>
Pond Water Level <u>4 3/4</u>	Air Temp <u>59°</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop _____	Wind Direction <u>E to W</u>	Weed Control <u>Some</u>
Water (Meter) Start _____	Erosion <u>Some</u>	Pond Oder <u>none</u>
Water Added <u>⊖</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input type="checkbox"/> YSI Meter Test <input checked="" type="checkbox"/>		

Percolation Pond

Erosion Some

Water Level 1"

Weed Control Some

Animal Burrows Some

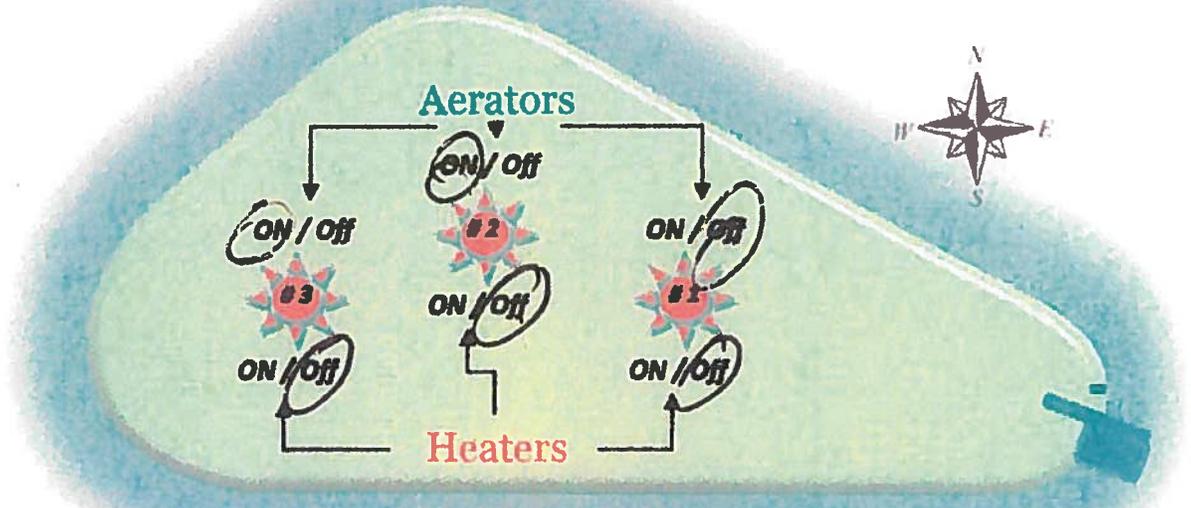
Inspected By Rockshead Date 11-19-15

Supervisor Review JJ Miller Date 11-19-15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>11.8</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>14.5</u>
Oxygen <u>10.53</u>	Green Brown (<input type="checkbox"/>)	Oxygen <u>15.11</u>
pH <u>9.31</u>	Brown Green (<input type="checkbox"/>)	pH <u>9.38</u>
Time <u>14:50</u>	Brown (<input type="checkbox"/>)	Time <u>14:35</u>
Pond Water Level <u>5</u>	Air Temp <u>50</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop _____	Wind Direction <u>None</u>	Weed Control <u>Some</u>
Water (Meter) Start _____	Erosion <u>Some</u>	Pond Oder <u>None</u>
Water Added <u>0</u>		
Common Bacterium-Per Drop (<input type="checkbox"/>) Activated Sludge (<input type="checkbox"/>) Glass Tube Test (<input type="checkbox"/>) YSI Meter Test (<input checked="" type="checkbox"/>)		

Percolation Pond

Erosion Some

Water Level 1/2"

Weed Control Some

Animal Burrows Some

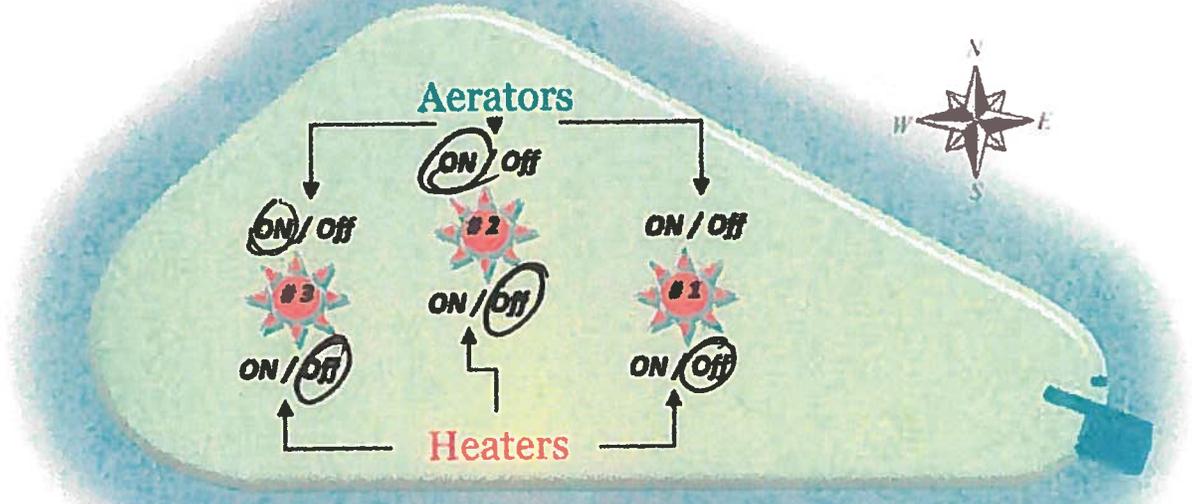
Inspected By D Rockstead Date 11-25-13

Supervisor Review JJ Miller Date 12-2-13

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



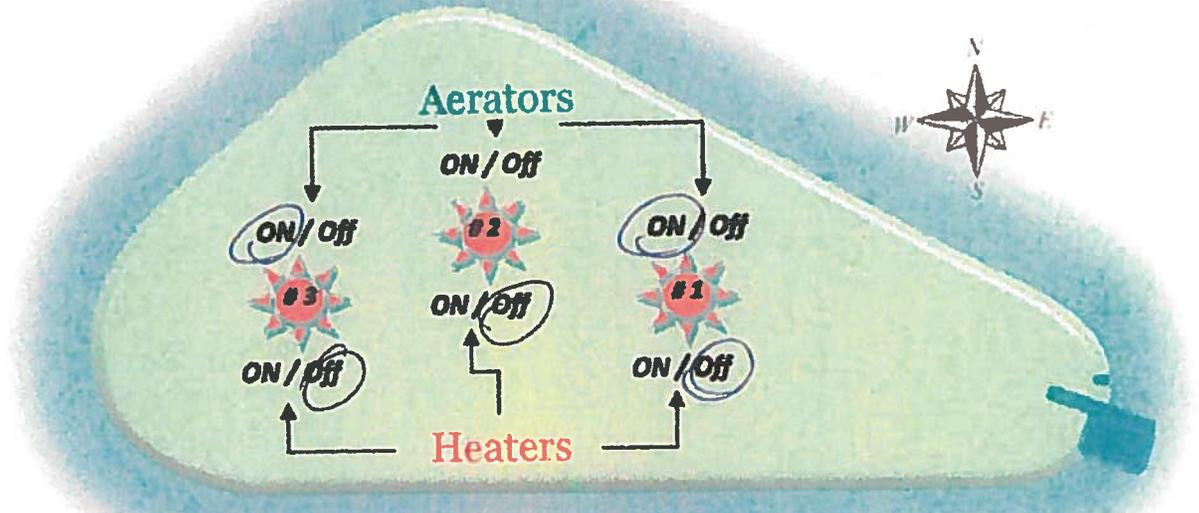
<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>8.8</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>7.9</u>
Oxygen <u>11.67</u>	Green Brown <input type="checkbox"/>	Oxygen <u>11.81</u>
pH <u>9.42</u>	Brown Green <input type="checkbox"/>	pH <u>9.4</u>
Time <u>14:25</u>	Brown <input type="checkbox"/>	Time <u>14:00</u>
Pond Water Level <u>4 3/4</u>	Air Temp <u>48</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop _____	Wind Direction <u>None</u>	Weed Control <u>Some</u>
Water (Meter) Start _____	Erosion <u>Some</u>	Pond Oder <u>None</u>
Water Added <u>0</u>		

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

<p><u>Percolation Pond</u></p> <p>Erosion <u>Some</u></p> <p>Water Level <u>1/2"</u></p> <p>Weed Control <u>Some</u></p> <p>Animal Burrows <u>Some</u></p>	<p>Inspected By <u>Rockstead</u> Date <u>12-1-15</u></p> <p>Supervisor Review <u>J. J. [Signature]</u> Date <u>12-2-15</u></p> <p>Comments _____</p>
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SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>12.4</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>11.5</u>
Oxygen <u>14.83</u>	Green Brown <input type="checkbox"/>	Oxygen <u>13.19</u>
pH <u>9.42</u>	Brown Green <input type="checkbox"/>	pH <u>9.39</u>
Time <u>13:15</u>	Brown <input type="checkbox"/>	Time <u>13:05</u>
Pond Water Level <u>4 3/4</u>	Air Temp <u>51</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop _____	Wind Direction <u>E to W</u>	Weed Control <u>Some</u>
Water (Meter) Start _____	Erosion <u>Some</u>	Pond Oder <u>None</u>
Water Added <u>0</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input type="checkbox"/> YSI Meter Test <input checked="" type="checkbox"/>		

Percolation Pond

Erosion Some

Water Level 1/2"

Weed Control Some

Animal Burrows Some

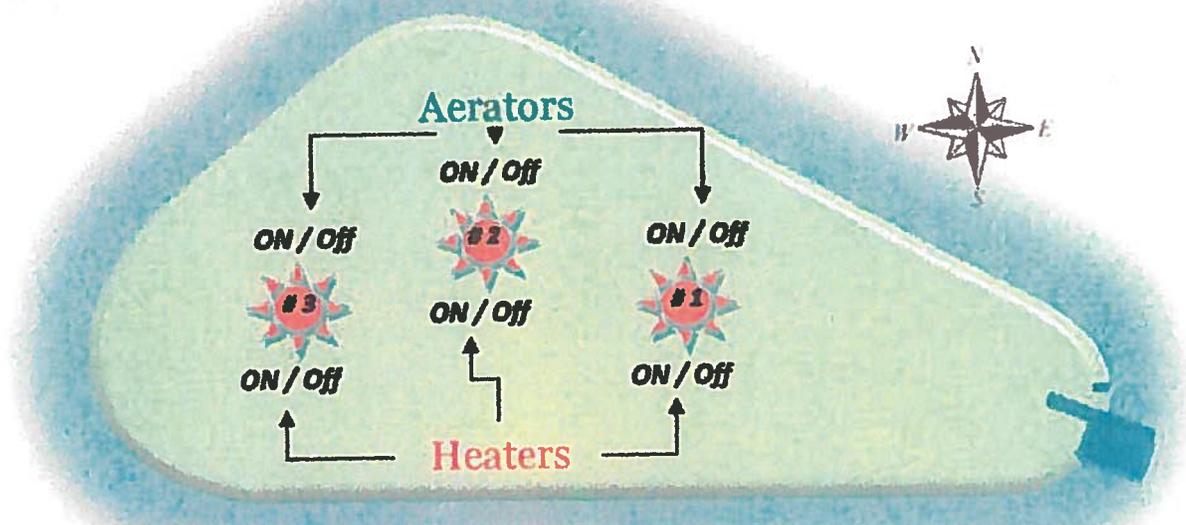
Inspected By Rockstead Date 12-8-15

Supervisor Review JJ Miller Date 12-8-15

Comments _____

SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



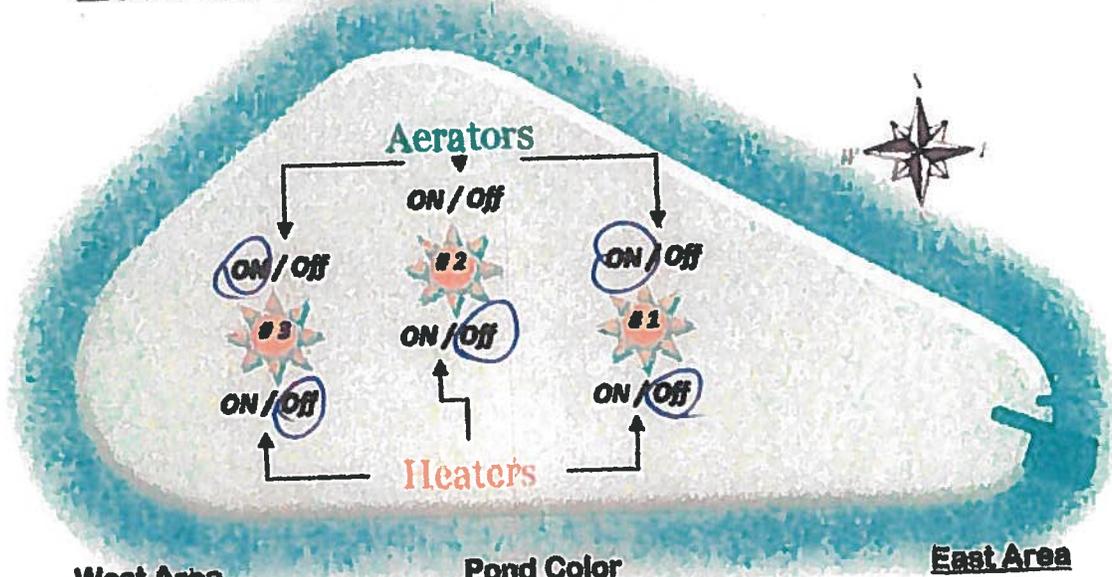
<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>10.5</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>10.5</u>
Oxygen <u>12.2</u>	Green Brown <input type="checkbox"/>	Oxygen <u>15.8</u>
pH <u>9.47</u>	Brown Green <input type="checkbox"/>	pH <u>9.48</u>
Time <u>13:40</u>	Brown <input type="checkbox"/>	Time <u>13:55</u>
Pond Water Level <u>5 1/2</u>	Air Temp _____	Animal Burrows <u>Some</u>
Water (Meter) Stop _____	Wind Direction <u>W to E</u>	Weed Control <u>Some</u>
Water (Meter) Start _____	Erosion <u>Some</u>	Pond Oder <u>none</u>
Water Added <u>0</u>		

Common Bacterium-Per Drop Activated Sludge Glass Tube Test YSI Meter Test

<p><u>Percolation Pond</u></p> <p>Erosion <u>Some</u></p> <p>Water Level _____</p> <p>Weed Control <u>Some</u></p> <p>Animal Burrows <u>Some</u></p>	<p>Inspected By <u>D Rockshead</u> Date <u>12-14-11</u></p> <p>Supervisor Review <u>JJ Muller</u> Date <u>12-14-11</u></p> <p>Comments _____</p>
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SITE 300 SEWER POND

INSPECTION/MONITORING REPORT



<u>West Area</u>	<u>Pond Color</u>	<u>East Area</u>
Water Temp <u>9.4</u>	Green <input checked="" type="checkbox"/>	Water Temp <u>7.3</u>
Oxygen <u>7.76</u>	Green Brown <input type="checkbox"/>	Oxygen <u>6.5</u>
pH <u>9.49</u>	Brown Green <input type="checkbox"/>	pH <u>9.49</u>
Time <u>10:10</u>	Brown <input type="checkbox"/>	Time <u>10:20</u>
Pond Water Level <u>5 1/2</u>	Air Temp <u>57</u>	Animal Burrows <u>Some</u>
Water (Meter) Stop _____	Wind Direction <u>None</u>	Weed Control <u>Some</u>
Water (Meter) Start _____	Erosion <u>Some</u>	Pond Oder <u>Slight</u>
Water Added <u>0</u>		
Common Bacterium-Per Drop <input type="checkbox"/> Activated Sludge <input type="checkbox"/> Glass Tube Test <input type="checkbox"/> YSI Meter Test <input checked="" type="checkbox"/>		

Percolation Pond

Erosion Some

Water Level 1"

Weed Control Some

Animal Burrows Some

Inspected By David Rockstead Date 12-17-15

Supervisor Review DA Miller Date 12-17-15

Comments _____

All Ground Water Sampling Data

Target Sample Date: 25-AUG-2015 Month: Norm Qtr: 3 Norm Year: 2015

WELL ID: W-7PS AREA INFO: S300/GSA/CGSA

DATE: 25-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30059

PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: TCE-3/NO3-17

SCREENED INTERVAL (ft-bmp): 19.48 - 22.48 INTAKE DEPTH: 0.00

CASING DEPTH(installed/sounded)(ft-bmp): 19.50 / 22.48 on 12-APR-94 CASING VOL (Gal/Time): 3.21

DEPTH TO WATER(ft-bmp): 18.30 on 28-MAY-15 *Dry* VOLUME FACTOR: 0.826

WATER IN CASING (ft): 3.88 CASING DIAMETER/TCASING HT(in): 4.5 / 2.68

TIME PUMP ON: _____ INITIAL FLOW RATE (Q=GPM): _____

TIME PUMP OFF: _____ MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW

METER SERIAL # 610883 CALIBRATED YES/NO SAMPLER/EMPLOYER: silva90
 pH : _____ YES/NO PROJECT: 3MRP
 SC : _____ YES/NO SAMPLE PRESERVATION/AMT OF REAGENT: N/A
 mV : _____ YES/NO PURGE VOL/EXCESS H2O DEST: 9.62 / S300-DROM
 H2O: _____ YES/NO TF LOCATION: S300

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____

SAMPLE ID (VERIFY): W-7PS / 3VES TIME COLLECTED: _____

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-7PS	E245.1	1	1 L P	
BB	W-7PS	S3ANIONS	1	250 ml P	
BB	W-7PS	S3METALS	1	500ml P	
BB	W-7PS	S3METALS:FILTER	0	0	
BB	W-7PS	S3WETCHEM	2	500ml P	
AA	W-7PS	SM9221	1	250 ml P	

Dry, No Sample

NOTE:
 Purge rate/time: N/A since est_sus_flow = 0
 Purge Volume: 23.7900009 gal.
 Revision: 08/12/2015

All Ground Water Sampling Data

Target Sample Date: 10-NOV-2015 Month: Norm Qtr: 4 Norm Year: 2015

WELL ID: W-7PS AREA INFO: S300/GSA/CGSA

DATE: 10-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30091

PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: TCE-3/NO3-17

SCREENED INTERVAL (ft-bmp): 19.48 - 22.48 INTAKE DEPTH: 0.00

CASING DEPTH(installed/sounded)(ft-bmp): 19.50 / 22.48 on 12-APR-94 CASING VOL (Gal/Time): UNKNOWN

DEPTH TO WATER(ft-bmp): ~~UNKNOWN~~ 18.21' VOLUME FACTOR: 0.826

WATER IN CASING (ft): ~~UNKNOWN~~ 1.29' CASING DIAMETER/TCASING HT(in): 4.5 / 2.68

TIME PUMP ON: _____ INITIAL FLOW RATE (Q=GPM): _____

TIME PUMP OFF: _____ MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW

METER SERIAL # 6105310 CALIBRATED _____

pH: _____ YES/NO _____

SC: _____ YES/NO _____

mV: _____ YES/NO _____

H2O: _____ YES/NO _____

SAMPLER/EMPLOYER: silva90

PROJECT: 3EMG 3CMP

SAMPLE PRESERVATION/AMT of REAGENT: _____

PURGE VOL/EXCESS H2O DEST: UNKNOWN / S300-DRUM

TF LOCATION: S300

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____

SAMPLE ID (VERIFY): W-7PS / 2125 TIME COLLECTED: _____

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-7PS	E300.0:NO3	1	250 ml P	
TS	W-7PS	E624MOD	3	40 mL V	
BB	W-7PS	SM2510B	1	250 ml P	
BB	W-7PS	SM4500PH	1	250 ml P	
AA	W-7PS	SM9221	1	250 ml P	

15.11 insufficient H₂O to sample.
 Tagged @ 18:41, probe is hitting the top of the pump. Not enough H₂O to sample.

NOTE:
 Purge rate/time: N/A since est_sus_flow = 0
 Purge Volume: 23.7900009 gal.
 Revision: 10/28/2015

All Ground Water Sampling Data

Target Sample Date: 25-AUG-2015

Month: Norm Qtr: 3 Norm Year: 2015

WELL ID: W-7ES AREA INFO: S300/GSA/CGSA

DATE: 25-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30059

PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: NO3-11

SCREENED INTERVAL (ft-bmp): 18.30 - 28.30 PUMP INTAKE DEPTH: 26.30

CASING DEPTH(installed/sounded)(ft-bmp): 26.80 / 30.10 on 21-JAN-87 CASING VOL (Gal/Time): 9.01 10.0K 30 =

DEPTH TO WATER(ft-bmp): 18.90 on 04-JUN-15 16.10 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 10.90 12.00 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00

TIME PUMP ON: 0952 INITIAL FLOW RATE (Q=GPM): 2.0 0

TIME PUMP OFF: 1019 MEASURED BY (FLOW METER) GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0957		10	1	7.37	23.8	1679	65	1	18.24
1002		20	2	7.39	23.9	1632	41	1	18.30
1007		30	3	7.38	23.8	1630	45	1	18.34
1009				7.38	23.8	1629	44	1	
1011				7.37	23.8	1625	43	1	

METER SERIAL # 610503 CALIBRATED YES SAMPLER/EMPLOYER: silva90
 pH: YES/NO PROJECT: 3MRP
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: NA
 mV: YES/NO PURGE VOL/EXCESS H2O TEST: 27.02 / S300-DRUM
 H2O: YES/NO TF LOCATION: S300

QC SAMPLE ID: CGSAFB W-75Y QC LAB(S): ALPHAANAL, BCLABS-BAK QC SAMPLE TIME: 1410

SAMPLE ID (VERIFY): W-7ES / 3VES TIME COLLECTED: 1019

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-75Y	S3ANIONS	1	250 ml P	
BB	CGSAFB	S3ANIONS	1	250 ml P	
BB	W-7ES	S3ANIONS	1	250 ml P	
BB	CGSAFB	S3METALS	1	500ml P	
BB	W-75Y	S3METALS	1	500ml P	
BB	W-7ES	S3METALS	1	500ml P	
BB	W-7ES	S3METALS:FILTER	0	O	
BB	CGSAFB	S3METALS:FILTER	0	O	
BB	W-75Y	S3METALS:FILTER	0	O	
BB	W-75Y	S3WETCHEM	2	500ml P	
BB	CGSAFB	S3WETCHEM	2	500ml P	
BB	W-7ES	S3WETCHEM	2	500ml P	
AA	W-75Y	SM9221	1	250-ml P	
AA	CGSAFB	SM9221	1	250-ml P	
AA	W-7ES	SM9221	1	250-ml P	

Add 2.0 oeccl

All Ground Water Sampling Data

Target Sample Date: 26-AUG-2015 Month: Norm Qtr: 3 Norm Year: 2015
 WELL ID: W-7ES AREA INFO: S300/GSA/CGSA
 DATE: 26-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30059
 PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: NO3-11
 SCREENED INTERVAL (ft-bmp): 18.30 - 28.30 PUMP INTAKE DEPTH: 26.30
 CASING DEPTH(installed/sounded)(ft-bmp): 26.80 / 30.10 on 21-JAN-87 CASING VOL (Gal/Time): 9.01 100 x 30 = 30
 DEPTH TO WATER(ft-bmp): 18.90 on 04-JUN-15 18.11 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 10.90 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00
 TIME PUMP ON: 1115 INITIAL FLOW RATE (Q=GPM): 2.0 a
 TIME PUMP OFF: 1152 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1120		10	1	7.40	23.7	1638	377	1	18.26
1125		20	2	7.38	23.7	1635	318	1	18.33
1130		30	3	7.38	23.7	1635	255	1	18.35
1132				7.37	23.7	1633	223	1	
1134				7.37	23.6	1630	218	1	

METER SERIAL # CALIBRATED SAMPLER/EMPLOYER: silva90
 pH: 610583 YES/NO PROJECT: 3MRP
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: NA
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 27.02 / S300-DRUM
 H2O: YES/NO TF LOCATION: S300

QC SAMPLE ID: CGSAFB W-75Y QC LAB(S): BCLABS-BAK, ALPHAANAL QC SAMPLE TIME: 1133
 SAMPLE ID (VERIFY): W-7ES / 3VES TIME COLLECTED: 1137

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-75Y	ANIONS	1	250 ml P	
BB	CGSAFB	ANIONS	1	250 ml P	
BB	W-7ES	ANIONS	1	250 ml P	
BB	CGSAFB	SMETALS	1	500ml P	
BB	W-75Y	SMETALS	1	500ml P	
BB	W-7ES	SMETALS	1	500ml P	
BB	W-7ES	SMETALS+FILTER	0	0	
BB	CGSAFB	SMETALS+FILTER	0	0	
BB	W-75Y	SMETALS+FILTER	0	0	
BB	W-75Y	SWETCHEM	2	500ml P	
BB	CGSAFB	SWETCHEM	2	500ml P	
BB	W-7ES	SWETCHEM	2	500ml P	
AA	W-75Y	SM9221	1	250 ml P	
AA	CGSAFB	SM9221	1	250 ml P	
AA	W-7ES	SM9221	1	250 ml P	

Evacuated all cl

All Ground Water Sampling Data

Target Sample Date: 11-NOV-2015 Month: Norm Qtr: 4 Norm Year: 2015
 WELL ID: W-7ES AREA INFO: S300/GSA/CGSA
 DATE: 11-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30092
 PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: NO3-11
 SCREENED INTERVAL (ft-bmp): 18.30 - 28.30 PUMP INTAKE DEPTH: 26.30
 CASING DEPTH(installed/sounded)(ft-bmp): 26.80 / 30.10 on 21-JAN-87 CASING VOL (Gal/Time): 9.66 9.6 x 30 = 28.8
 DEPTH TO WATER(ft-bmp): 18.11 on 25-AUG-15 18.51 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 11.69 11.59 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00
 TIME PUMP ON: 1246 INITIAL FLOW RATE (Q=GPM): 2.0
 TIME PUMP OFF: 1312 MEASURED BY: FLOW METER GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1251		9.6	1	7.28	24.5	1650	13	1	18.60
1256		19.2	2	7.44	24.3	1644	26	1	18.68
1301		28.8	3	7.43	24.2	1641	29	1	18.77
1303				7.43	24.2	1640	28	1	
1305				7.44	24.2	1643	31	1	

METER SERIAL # CALIBRATED SAMPLER/EMPLOYER: silva90
 pH: _____ YES/NO PROJECT: 3CMP 3EMG
 SC: _____ YES/NO SAMPLE PRESERVATION/AMT of REAGENT: _____
 mV: _____ YES/NO PURGE VOL/EXCESS H2O DEST: 28.97 / 8300-DRUM
 H2O: _____ YES/NO TF LOCATION: 8300

QC SAMPLE ID: CGSAFB W-75Y QC LAB(S): ALPHAANAL, BCLABS-BAK QC SAMPLE TIME: 1536
 SAMPLE ID (VERIFY): W-7ES / 3VES TIME COLLECTED: 1312

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-75Y	E300.0:NO3	1	250 ml P	
BB	CGSAFB	E300.0:NO3	1	250 ml P	
BB	W-7ES	E300.0:NO3	1	250 ml P	
BB	W-7ES	E624MOD	3	40 mL V	
BB	W-75Y	E624MOD	3	40 mL V	
BB	CGSAFB	E624MOD	3	40 mL V	
BB	W-75Y	SM2510B	1	250 ml P	
BB	W-7ES	SM2510B	1	250 ml P	
BB	CGSAFB	SM2510B	1	250 ml P	
BB	CGSAFB	SM4500PH	1	250 ml P	
BB	W-7ES	SM4500PH	1	250 ml P	
BB	W-75Y	SM4500PH	1	250 ml P	
AA	CGSAFB	SM9221	1	250 ml P	
AA	W-7ES	SM9221	1	250 ml P	
AA	W-75Y	SM9221	1	250 ml P	

Added 2.0 oz of cc

All Ground Water Sampling Data

Target Sample Date: 12-NOV-2015

Month: Norm Qtr: 4 Norm Year: 2015

WELL ID: W-7ES AREA INFO: S300/GSA/CGSA
 DATE: 12-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30092
 PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: NO3-11
 SCREENED INTERVAL (ft-bmp): 18.30 - 28.30 PUMP INTAKE DEPTH: 26.30
 CASING DEPTH(installed/sounded)(ft-bmp): 26.80 / 30.10 on 21-JAN-87 CASING VOL (Gal/Time): 9.66
 DEPTH TO WATER(ft-bmp): 18.11 on 25-AUG-15 18.53 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 11.69 11.57 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00
 TIME PUMP ON: 1209 INITIAL FLOW RATE (Q=GPM): 2.0 Q
 TIME PUMP OFF: 1234 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1214		9.6	1	7.39	24.1	1639	512	1	18.63
1219		19.2	2	7.41	24.0	1637	444	1	18.71
1224		28.8	3	7.41	24.0	1635	366	1	18.81
1226				7.40	24.0	1633	291	1	
1228				7.41	24.1	1632	277	1	

METER SERIAL # 6205340 CALIBRATED YES/NO SAMPLER/EMPLOYER: silva90
 PH: YES/NO PROJECT: 3CMP 3EMG
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: N/A
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 28.97 / S300-DRUM
 H2O: YES/NO TF LOCATION: 8300

QC SAMPLE ID: CGSAFB W-75Y QC LAB(S): BCLABS-BAK, ALPHAANAL QC SAMPLE TIME: 1418

SAMPLE ID (VERIFY): W-7ES / 3VES TIME COLLECTED: 1234

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-75Y	E300.0:NO3	±	250 ml P	
BB	CGSAFB	E300.0:NO3	±	250 ml P	
BB	W-7ES	E300.0:NO3	±	250 ml P	
BB	W-7ES	E624M0D	±	40 ml V	
BB	W-75Y	E624M0D	±	40 ml V	
BB	CGSAFB	E624M0D	±	40 ml V	
BB	W-75Y	SM2510B	±	250 ml P	
BB	W-7ES	SM2510B	±	250 ml P	
BB	CGSAFB	SM2610B	±	250 ml P	
BB	CGSAFB	SM4500PH	±	250 ml P	
BB	W-7ES	SM4500PH	±	250 ml P	
BB	W-75Y	SM4500PH	±	250 ml P	
AA	CGSAFB	SM9221	1	250 ml P	
AA	W-7ES	SM9221	1	250 ml P	
AA	W-75Y	SM9221	1	250 ml P	

Evacuated all CL from well

All Ground Water Sampling Data

Target Sample Date: 25-AUG-2015 Month: Norm Qtr: 3 Norm Year: 2015
 WELL ID: W-35A-04 AREA INFO: S300/GSA/CGSA
 DATE: 25-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30059
 PURGE METHOD/SAMPLE METHOD: Grunfos / 3VES CONTAMINANT PRESENT: ND
 SCREENED INTERVAL (ft-bmp): 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28
 CASING DEPTH(installed/sounded)(ft-bmp): 29.00 / 28.57 on 14-DEC-09 CASING VOL (Gal/Time): 7.28 *12 x 3 = 36 Gal*
 DEPTH TO WATER(ft-bmp): 20.19 on 11-JUN-15 *14.22* VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 8.81 *14.35* CASING DIAMETER/TCASING HT(in): 4.5 / 0.00
 TIME PUMP ON: *1324* INITIAL FLOW RATE (Q=GPM): *3.00*
 TIME PUMP OFF: MEASURED BY: FLOW METER GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1328		12	1	7.44	24.6	1604	140	1	14.30
1332		24	2	7.47	24.4	1608	137	1	14.31
<i>1336</i>		36	3	7.47	24.4	1610	135	1	14.37
1336				7.46	24.4	1609	133	1	
1340				7.45	24.4	1604	133	1	

METER SERIAL # CALIBRATED SAMPLER/EMPLOYER: silva90
 pH: 60953 YES/NO PROJECT: 3MRP
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: 2.0
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 21.84 / None
 H2O: YES/NO TF LOCATION: Collect

QC SAMPLE ID: - QC LAB(S): - QC SAMPLE TIME: -
 SAMPLE ID (VERIFY): W-35A-04 / 5025 TIME COLLECTED: 1337

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-35A-04	S3ANIONS	1	250 ml P	
BB	W-35A-04	S3METALS	1	500ml P	
BB	W-35A-04	S3METALS:FILTER	0	O	
BB	W-35A-04	S3WETCHEM	2	500ml P	
AA	W-35A-04	SM9221	1	250 ml P	

Added 2.8 oz of SLL

All Ground Water Sampling Data

Target Sample Date: 26-AUG-2015

Month: Norm Qtr: 3 Norm Year: 2015

WELL ID: W-35A-04 AREA INFO: S300/GSA/CGSA

DATE: 26-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30089 60

PURGE METHOD/SAMPLE METHOD: Grufos / 3VES CONTAMINANT PRESENT: ND

SCREENED INTERVAL (ft-bmp): 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28

CASING DEPTH(installed/sounded)(ft-bmp): 29.00 / 28.57 on 14-DEC-09 CASING VOL (Gal/Time): 7.28

DEPTH TO WATER(ft-bmp): 20.19 on 11-JUN-15 16.70 14.22 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 8.81 14.35 CASING DIAMETER/TCASING HT(in): 4.5 / 0.00

TIME PUMP ON: 1239 INITIAL FLOW RATE (Q=GPM): 3.0Q

TIME PUMP OFF: 1306 MEASURED BY: FLOW METER GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1243		12	1	7.43	24.3	1611	585	1	14.35
1247		24	2	7.42	24.3	1608	521	1	14.38
1251		36	3	7.44	24.2	1605	480	1	14.39
1253				7.45	24.2	1609	453	1	
1255				7.45	24.2	1607	372	1	
1257				7.46	24.2	1605	351		

METER SERIAL # 610883 CALIBRATED YES/NO
 pH : _____ YES/NO
 SC : _____ YES/NO
 mV : _____ YES/NO
 H2O: _____ YES/NO

SAMPLER/EMPLOYER: silva90
 PROJECT: 3MRP
 SAMPLE PRESERVATION/AMT of REAGENT: NA
 PURGE VOL/EXCESS H2O DEST: 21.84 / None
 TF LOCATION: Collect

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____

SAMPLE ID (VERIFY): W-35A-04/3VES TIME COLLECTED: 1306

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-35A-04	ANIONS	1	250 ml P	
BB	W-35A-04	3METALS	1	500ml P	
BB	W-35A-04	3METALS-FILTER	0	0	
BB	W-35A-04	SMETCHEM	2	500ml P	
AA	W-35A-04	SM9221	1	250 ml P	

Environmental all CC

All Ground Water Sampling Data

Target Sample Date: 11-NOV-2015 Month: Norm Qtr: 4 Norm Year: 2015
 WELL ID: W-35A-04 AREA INFO: S300/GSA/CGSA
 DATE: 11-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30092
 PURGE METHOD/SAMPLE METHOD: Grunfos / 3VES CONTAMINANT PRESENT: ND
 SCREENED INTERVAL (ft-bmp): 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28
 CASING DEPTH(installed/sounded)(ft-bmp): 29.00 / 28.57 on 14-DEC-09 CASING VOL (Gal/Time): 12.21 12.2 Y₃₀ = 36.6
 DEPTH TO WATER(ft-bmp): 14.22 on 26-AUG-15 1371 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 14.78 14.86 CASING DIAMETER/TCASING HT(in): 4.5 / 0.00
 TIME PUMP ON: 1400 INITIAL FLOW RATE (Q=GPM): 3.0
 TIME PUMP OFF: 1429 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1404		12.2	1	7.49	23.7	1660	99	1	13.75
1406		24.4	2	7.46	23.6	1665	96	1	13.79
1412		36.6	3	7.46	23.6	1668	91	1	13.84
1414				7.44	23.6	1670	92	1	
1416				7.43	23.6	1672	95	1	

METER SERIAL # CALIBRATED SAMPLER/EMPLOYER: silva90
 pH: 6205340 YES/NO PROJECT: 3CMP 3EMG
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: NA
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 36.63 / None
 H2O: YES/NO TF LOCATION: Collect

QC SAMPLE ID: --- QC LAB(S): --- QC SAMPLE TIME: ---
 SAMPLE ID (VERIFY): W-35A-04 3095 TIME COLLECTED: 1429

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
GE	W-35A-04	AS:FILTER	0	O	
GE	W-35A-04	AS:UIISO	2	1L P	
BB	W-35A-04	E200.7:FILTER	0	O	
BB	W-35A-04	E200.7:K	1	500 mL P	
BB	W-35A-04	E300.0:NO3	1	250 ml P	
BB	W-35A-04	E300.0:PERC	1	250 ml P	1/3-1/2 headspace, & agitate
BB	W-35A-04	E524.2MOD	6	40 mL V	
TS	W-35A-04	E624MOD	<u>29</u>	40 mL V	
BB	W-35A-04	E8330:R+H	3	1L G	
GE	W-35A-04	E900	1	1L P	
GE	W-35A-04	E900:FILTER	0	O	
GE	W-35A-04	E906	1	250 ml GA	
BB	W-35A-04	SM2510B	1	250 ml P	
BB	W-35A-04	SM4500PH	1	250 ml P	
AA	W-35A-04	SMR221	1	250 ml P	
BB	W-35A-04	WGMGMET3	1	1L P	
BB	W-35A-04	WGMGMET3:FILTER	0	O	

Added 2.5 oz of CL

All Ground Water Sampling Data

Target Sample Date: 12-NOV-2015

Month: Norm Qtr: 4 Norm Year: 2015

WELL ID: W-35A-04 AREA INFO: S300/GSA/CGSA
 DATE: 12-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA3009# 3
 PURGE METHOD/SAMPLE METHOD: Grunfos / 3VES CONTAMINANT PRESENT: ND
 SCREENED INTERVAL (ft-bmp): 19.30 - 29.30 PUMP INTAKE DEPTH: 26.28
 CASING DEPTH(installed/sounded)(ft-bmp): 29.00 / 28.57 on 14-DEC-09 CASING VOL (Gal/Time): 12.21
 DEPTH TO WATER(ft-bmp): 14.22 on 26-AUG-15 13.70 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 14.78 14.87 CASING DIAMETER/TCASING HT(in): 4.5 / 0.00
 TIME PUMP ON: 1301 INITIAL FLOW RATE (Q=GPM): 3.0
 TIME PUMP OFF: 1321 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1305		12.2	1	7.44	23.6	1666	412	1	13.78
1304		24.4	2	7.46	23.6	1671	329	1	13.80
1313		36.6	3	7.45	23.6	1675	301	1	13.85
1315				7.45	23.5	1679	274	1	
1317				7.45	23.5	1677	251	1	
				7.45					

METER SERIAL # CALIBRATED SAMPLER/EMPLOYER: silva90
 PH: 605340 YES/NO PROJECT: 3EMG 3CMP
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: NA
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 36.63 / None
 H2O: YES/NO TF LOCATION: Collect

QC SAMPLE ID: - QC LAB(S): - QC SAMPLE TIME: -

SAMPLE ID (VERIFY): W-35A-04 / 3VES TIME COLLECTED: 1321

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
GE	W-35A-04	AS-FILTER	0	-	
GB	W-35A-04	AS-VISO	2	1L P	
BB	W-35A-04	E200.7:FILTER	0	-	
BB	W-35A-04	E200.7:K	1	500 ml P	
BB	W-35A-04	E300.0:NO3	1	250 ml P	
BB	W-35A-04	E300.0:PERC	1	250 ml P	1/3-1/2 headspace, & agitate
BB	W-35A-04	E524.3MOD	6	40 ml V	
TS	W-35A-04	E624MOD	3	40 ml V	
BB	W-35A-04	E8330:R+H	3	1L G	
GE	W-35A-04	E900	1	1L P	
GE	W-35A-04	E900:FILTER	0	-	
GE	W-35A-04	E900	1	250 ml GA	
BB	W-35A-04	SM2510B	1	250 ml P	
BB	W-35A-04	SM4500PH	1	250 ml P	
AA	W-35A-04	SM9221	1	250 ml P	
BB	W-35A-04	WGMGMET3	1	1L P	
BB	W-35A-04	WGMGMET3-FILTER	0	-	

Evacuated all CL from wells

All Ground Water Sampling Data

Target Sample Date: 24-AUG-2015

Month: Norm Qtr: 3 Norm Year: 2015

WELL ID: W-26R-01 AREA INFO: S300/GSA/EGSA

DATE: 24-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30058

PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: *TCE-15/NO3-40

SCREENED INTERVAL (ft-bmp): 22.72 - 27.72 PUMP INTAKE DEPTH: 29.00

CASING DEPTH(installed/sounded)(ft-bmp): 29.80 / 30.00 on 16-NOV-88 CASING VOL (Gal/Time): 9.77 $8.4 \times 25 = 210$

DEPTH TO WATER(ft-bmp): 20.64 on 15-JUN-15 1980 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 11.83 10.2 CASING DIAMETER/TCASING HT(in): 4.5 / 2.67

TIME PUMP ON: 1219 INITIAL FLOW RATE (Q=GPM): 1.09

TIME PUMP OFF: 1256 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1228		8.4	1	7.75	23.5	1411	112	1	22.60
1237		16.8	2	7.68	23.4	1418	100	1	24.30
1245		25.2	3	7.68	23.4	1412	97	1	24.89
1247				7.69	23.4	1410	97	1	
1249				7.68	23.5	1405	95	1	

METER SERIAL # 40503 CALIBRATED YES/NO SAMPLER/EMPLOYER: silva90
 PH: YES/NO PROJECT: 3MRP
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: na
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 29.32 / TF-834
 H2O: YES/NO TF LOCATION: 834

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____

SAMPLE ID (VERIFY): W-26R-01 / 3VES TIME COLLECTED: 1256

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-01	S3ANIONS	1	250 ml P	
BB	W-26R-01	S3METALS	1	500ml P	
BB	W-26R-01	S3METALS:FILTER	0	O	
BB	W-26R-01	S3WETCHEM	2	500ml P	
AA	W-26R-01	SM9221	1	250 ml P	

Added 1.6 oz of CL

All Ground Water Sampling Data

Target Sample Date: 10-NOV-2015 Month: Norm Qtr: 4 Norm Year: 2015
 WELL ID: W-26R-01 AREA INFO: S300/GSA/EGSA
 DATE: 10-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30091
 PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: *TCE-15/NO3-40
 SCREENED INTERVAL (ft-bmp): 22.72 - 27.72 PUMP INTAKE DEPTH: 29.00
 CASING DEPTH(installed/sounded)(ft-bmp): 29.80 / 30.00 on 16-NOV-88 CASING VOL (Gal/Time): 10.47 7.9 x 30 = 23.7
 DEPTH TO WATER(ft-bmp): 19.80 on 25-AUG-15 20.45 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 12.67 9.55 CASING DIAMETER/TCASING HT(in): 4.5 / 2.67
 TIME PUMP ON: 0902 INITIAL FLOW RATE (Q=GPM): 1.0
 TIME PUMP OFF: 0934 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0910		8	1	7.49	21.0	1448	360	1	24.09
0914		16	2	7.53	21.8	1432	349	1	24.72
0926		24	3	7.55	22.0	1428	353	1	25.12
0928				7.55	21.9	1424	350	1	
0930				7.53	21.9	1421	346	1	

METER SERIAL # 6205340 CALIBRATED YES/NO SAMPLER/EMPLOYER: silva90
 pH: YES/NO PROJECT: 3EMG
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: TF
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 31.40 / TF-834
 H2O: YES/NO TF LOCATION: 834

QC SAMPLE ID: - QC LAB(S): - QC SAMPLE TIME: -
 SAMPLE ID (VERIFY): W-26R-01 / 3003 TIME COLLECTED: 0934

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-01	E300.0:NO3	1	250 ml P	
BB	W-26R-01	SM2510B	1	250 ml P	
BB	W-26R-01	SM4500PH	1	250 ml P	
AA	W-26R-01	SM9221	1	250 ml P	

Added 1.5 oz of CC

All Ground Water Sampling Data

Target Sample Date: 11-NOV-2015 Month: Norm Qtr: 4 Norm Year: 2015
 WELL ID: W-26R-01 AREA INFO: S300/GSA/EGSA
 DATE: 11-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA3009-2
 PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: *TCE-15/NO3-40
 SCREENED INTERVAL (ft-bmp): 22.72 - 27.72 PUMP INTAKE DEPTH: 29.00
 CASING DEPTH (installed/sounded) (ft-bmp): 29.80 / 30.00 on 16-NOV-88 CASING VOL (Gal/Time): 10.47 7.9x30 = 237 Gal
 DEPTH TO WATER (ft-bmp): 19.80 on 25-AUG-15 20.48 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 12.67 9.52 CASING DIAMETER/TCASING HT (in): 4.5 / 2.67
 TIME PUMP ON: 0912 INITIAL FLOW RATE (Q=GPM): 1.0
 TIME PUMP OFF: 0950 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0920		8	1	7.57	20.8	1462	547	1	24.18
0928		16	2	7.49	21.0	1451 1451	501	1	24.80
0936		24	3	7.48	21.4	1450	412	1	25.19
0943				7.49	21.5	1444	378	1	
0945				7.51	21.5	1440	352		
0947				7.51	21.4	1441	344		

METER SERIAL # 6905340 CALIBRATED YES
 pH : YES/NO
 SC : YES/NO
 mV : YES/NO
 H2O : YES/NO
 SAMPLER/EMPLOYER: silva90
 PROJECT: 3EMG
 SAMPLE PRESERVATION/AMT OR REAGENT: NA
 PURGE VOL/EXCESS H2O DEST: 11.40 / TF-834
 TF LOCATION: 834

QC SAMPLE ID: - QC LAB(S): - QC SAMPLE TIME: -
 SAMPLE ID (VERIFY): W-26R-01/3045 TIME COLLECTED: 0950

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-01	E200_0:NO3	1	250 ml P	
BB	W-26R-01	SM2310B	1	250 ml P	
BB	W-26R-01	SM4500PH	1	250 ml P	
AA	W-26R-01	SM9221	1	250 ml P	

Evacuated all CL from Well

All Ground Water Sampling Data

Target Sample Date: 24-AUG-2015 Month: Norm Qtr: 3 Norm Year: 2015
 WELL ID: W-26R-11 AREA INFO: S300/GSA/EGSA
 DATE: 24-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30058
 PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: TCE-1.6/NO3-14
 SCREENED INTERVAL (ft-bmp): 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08
 CASING DEPTH(installed/sounded)(ft-bmp): 27.00 / 29.28 on 17-MAR-92 CASING VOL (Gal/Time): 8.91 10.0x30=30Gal
 DEPTH TO WATER(ft-bmp): 18.19 on 02-JUN-15 17.18 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 10.79 12.1 CASING DIAMETER/TCASING HT(in): 4.5 / 1.98
 TIME PUMP ON: 1330 INITIAL FLOW RATE (Q=GPM): 1.0
 TIME PUMP OFF: 1411 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1340		10	1	7.62	23.4	1494	72	1	17.21
1350		20	2	7.59	23.4	1488	80	1	17.29
1400		30	3	7.56	23.4	1480	84	1	17.35
1402				7.54	23.4	1477	83	1	
1404				7.55	23.3	1472	85	1	

METER SERIAL # 60553 CALIBRATED YES/NO
 pH: YES/NO
 SC: YES/NO
 mV: YES/NO
 H2O: YES/NO
 SAMPLER/EMPLOYER: silva90
 PROJECT: 3MRP
 SAMPLE PRESERVATION/AMT of REAGENT: NA
 PURGE VOL/EXCESS H2O DEST: 26.74 / S300-DRUM
 TF LOCATION: S300

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____
 SAMPLE ID (VERIFY): W-26R-11 / 3VES TIME COLLECTED: 1411

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-11	S3ANIONS	1	250 ml P	
BB	W-26R-11	S3METALS	1	500ml P	
BB	W-26R-11	S3METALS:FILTER	0	O	
BB	W-26R-11	S3WETCHEM	2	500ml P	
AA	W-26R-11	SM9221	1	250 ml P	

Added 1.8 0208 CC

All Ground Water Sampling Data

Target Sample Date: 25-AUG-2015 Month: Norm Qtr: 3 Norm Year: 2015
 WELL ID: W-26R-11 AREA INFO: S300/GSA/EGSA
 DATE: 25-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30058
 PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: TCE-1.6/NO3-14
 SCREENED INTERVAL (ft-bmp): 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08
 CASING DEPTH(installed/sounded)(ft-bmp): 27.00 / 29.28 on 17-MAR-92 CASING VOL (Gal/Time): 8.91 10030=30
 DEPTH TO WATER(ft-bmp): 18.19 on 02-JUN-15 17.19 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 10.79 12.09 CASING DIAMETER/TCASING HT(in): 4.5 / 1.98
 TIME PUMP ON: 1145 INITIAL FLOW RATE (Q=GPM): 1.0
 TIME PUMP OFF: 1221 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1155		10	1	7.59	23.5	1492	372	1	17.23
1205		20	2	7.55	23.5	1479	289	1	17.32
1215		30	3	7.56	23.5	1481	273	1	17.40
1217				7.54	23.4	1480	259	1	
1219				7.56	23.4	1480	233	1	

METER SERIAL # CALIBRATED SAMPLER/EMPLOYER: silva90
 pH: 20850 YES/NO PROJECT: 3MRP
 SC: YES/NO SAMPLE PRESERVATION/AMT OF REAGENT: NA
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 26.74 / S300-DRUM
 H2O: YES/NO TF LOCATION: S300

QC SAMPLE ID: QC LAB(S): QC SAMPLE TIME:

SAMPLE ID (VERIFY): W-26R-11/343 TIME COLLECTED: 1221

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
-BB	W-26R-11	3PARAMS	1	250 ml P	
-BB	W-26R-11	3METALS	1	500ml P	
-BB	W-26R-11	3METALS/FILTER	0	0	
-BB	W-26R-11	3WETCHEM	2	500ml P	
-AA	W-26R-11	3M9221	1	250 ml P	

Sampled 3m9221 for Alpha

Evacuated all CL

All Ground Water Sampling Data

Target Sample Date: 10-NOV-2015 Month: Norm Qtr: 4 Norm Year: 2015
 WELL ID: W-26R-11 AREA INFO: S300/GSA/EGSA
 DATE: 10-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30091
 PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: TCE-1.6/NO3-14
 SCREENED INTERVAL (ft-bmp): 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08
 CASING DEPTH(installed/sounded)(ft-bmp): 27.00 / 29.28 on 17-MAR-92 CASING VOL (Gal/Time): 9.74 9.5 x 30 = 28.5
 DEPTH TO WATER(ft-bmp): 17.19 on 25-AUG-15 17.71 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 11.79 11.57 CASING DIAMETER/TCASING HT(in): 4.5 / 1.98
 TIME PUMP ON: 1001 INITIAL FLOW RATE (Q=GPM): 1.00
 TIME PUMP OFF: 1041 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1011		9.5	1	7.48	21.9	1495	181	1	17.72
1021		19	2	7.43	22.5	1502	112	1	17.77
1031		28.5	3	7.49	22.7	1496	107	1	17.83
1033				7.49	22.6	1493	105		
1035				7.47	22.6	1491	104		

METER SERIAL # CALIBRATED SAMPLER/EMPLOYER: silva90
 PH: 6205310 YES/NO PROJECT: 3EMG 3GIV
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: MM
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 29.22 / S300-DRUM
 H2O: YES/NO TF LOCATION: S300

QC SAMPLE ID: EGSAFB W-26R-49Y QC LAB(S): ALPHAANAL, BCLABS-BAK QC SAMPLE TIME: 1349

SAMPLE ID (VERIFY): W-26R-11 / 3VES TIME COLLECTED: 1041

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-11	E300.0:NO3	1	250 ml P	
BB	W-26R-49Y	E300.0:NO3	1	250 ml P	
BB	EGSAFB	E300.0:NO3	1	250 ml P	
BB	W-26R-49Y	E624MOD	3	40 mL V	
BB	W-26R-11	E624MOD	3	40 mL V	
BB	EGSAFB	E624MOD	3	40 mL V	
BB	W-26R-49Y	SM2510B	1	250 ml P	
BB	EGSAFB	SM2510B	1	250 ml P	
BB	W-26R-11	SM2510B	1	250 ml P	
BB	W-26R-49Y	SM4500PH	1	250 ml P	
BB	W-26R-11	SM4500PH	1	250 ml P	
BB	EGSAFB	SM4500PH	1	250 ml P	
AA	W-26R-11	SM9221	1	250 ml P	
AA	EGSAFB	SM9221	1	250 ml P	
AA	W-26R-49Y	SM9221	1	250 ml P	

Added 2.0 cc of cc

A

All Ground Water Sampling Data

Target Sample Date: 11-NOV-2015

Month: Norm Qtr: 4 Norm Year: 2015

WELL ID: W-26R-11 AREA INFO: S300/GSA/EGSA

DATE: 12-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA3009-2

PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: TCE-1.6/NO3-14

SCREENED INTERVAL (ft-bmp): 18.08 - 28.08 PUMP INTAKE DEPTH: 31.08

CASING DEPTH(installed/sounded)(ft-bmp): 27.00 / 29.28 on 17-MAR-92 CASING VOL (Gal/Time): 9.74

DEPTH TO WATER(ft-bmp): 17.19 on 25-AUG-15 17.74 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 11.79 11.57 CASING DIAMETER/TCASING HT(in): 4.5 / 1.98

TIME PUMP ON: 1010 INITIAL FLOW RATE (Q=GPM): 1.0

TIME PUMP OFF: 1018 MEASURED BY: FLOW METER GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1020		9.5	1	7.50	22.1	1490	427	1	17.78
1030		19	2	7.44	22.1	1495	402	1	17.80
1040		28.5	3	7.46	21.9	1494	364	1	17.84
1042				7.46	21.9	1497	318	1	
1044				7.44	22.0	1495	290	1	

METER SERIAL # CALIBRATED SAMPLER/EMPLOYER: silva90
 pH: 20530 YES/NO PROJECT: 3GIV 3EMG
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: MA
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 29.22 / S300-BRUM
 H2O: YES/NO TF LOCATION: S300

QC SAMPLE ID: EGSAFB W-26R-49Y QC LAB(S): BCLABS-BAK, ALPHAANAL QC SAMPLE TIME: 1400

SAMPLE ID (VERIFY): W-26R-11 / 3VES TIME COLLECTED: 1018

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-11	E300-0:NO3	1	250 ml P	
BB	W-26R-49Y	E300-0:NO3	1	250 ml P	
BB	EGSAFB	E300-0:NO3	1	250 ml P	
BB	W-26R-49Y	E624MOD	3	40 ml V	
BB	W-26R-11	E624MOD	3	40 ml V	
BB	EGSAFB	E624MOD	3	40 ml V	
BB	W-26R-49Y	SM2510B	1	250 ml P	
BB	EGSAFB	SM2510B	1	250 ml P	
BB	W-26R-11	SM2510B	1	250 ml P	
BB	W-26R-49Y	SM4500PH	1	250 ml P	
BB	W-26R-11	SM4500PH	1	250 ml P	
BB	EGSAFB	SM4500PH	1	250 ml P	
AA	W-26R-11	SM9221	1	250 ml P	
AA	EGSAFB	SM9221	1	250 ml P	
AA	W-26R-49Y	SM9221	1	250 ml P	

Evacuated all CC from well

All Ground Water Sampling Data

Target Sample Date: 10-AUG-2015

Month: Norm Qtr: 3 Norm Year: 2015

WELL ID: W-26R-05 AREA INFO: S300/GSA/EGSA

DATE: 10-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30051

PURGE METHOD/SAMPLE METHOD: PB / 90BA CONTAMINANT PRESENT: TCE-3.3/NO3-53

SCREENED INTERVAL (ft-bmp): 22.05 - 27.05 INTAKE DEPTH: 0.00

CASING DEPTH(installed/sounded)(ft-bmp): 25.50 / 26.68 on 10-FEB-91 CASING VOL (Gal/Time): 1.57 2.8 Gal x 90%

DEPTH TO WATER(ft-bmp): 25.10 on 04-JUN-15 23.32 VOLUME FACTOR: 0.826 2.5 Gal

WATER IN CASING (ft): 1.90 3.36 CASING DIAMETER/TCASING HT(in): 4.5 / 1.50

TIME PUMP ON: - INITIAL FLOW RATE (Q=GPM): -

TIME PUMP OFF: - MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1315		2.5	90%	7.85	23.4	1088	59	1	

METER SERIAL # 610883 CALIBRATED YES/NO YES
 PH: _____ YES/NO _____
 SC: _____ YES/NO _____
 mV: _____ YES/NO _____
 H2O: _____ YES/NO _____

SAMPLER/EMPLOYER: silva90
 PROJECT: 3MRP
 SAMPLE PRESERVATION/AMT of REAGENT: N/A
 PURGE VOL/EXCESS H2O DEST: 1.41 / S300-DRUM
 TF LOCATION: S300

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____

SAMPLE ID (VERIFY): W-26R-05/90BA TIME COLLECTED: 1330

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-05	S3ANIONS	1	250 ml P	
BB	W-26R-05	S3METALS	1	500ml P	
BB	W-26R-05	S3METALS:FILTER	0	0	
BB	W-26R-05	S3WETCHEM	2	500ml P	
AA	W-26R-05	6M9221	1	250 ml P	

Added oz of CL

NOTE:
 Purge rate/time: N/A since est_sus_flow = 0
 Purge Volume: 10 gal.
 Revision: 03/04/2015

All Ground Water Sampling Data

Target Sample Date: 18-AUG-2015

Month: Norm Qtr: 3 Norm Year: 2015

WELL ID: W-26R-05 AREA INFO: S300/GSA/EGSA

DATE: 18-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30051

PURGE METHOD/SAMPLE METHOD: PB / 90BA CONTAMINANT PRESENT: TCE-3.3/NO3-53

SCREENED INTERVAL (ft-bmp): 22.05 - 27.05 INTAKE DEPTH: 0.00

CASING DEPTH(installed/sounded)(ft-bmp): 25.50 / 26.68 on 10-FEB-91 CASING VOL (Gal/Time): 1.57 $2.2 \times 90\% = 1.98$

DEPTH TO WATER(ft-bmp): 25.10 on 04-JUN-15 23.97 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 1.90 2.71 CASING DIAMETER/TCASING HT(in): 4.5 / 1.50

TIME PUMP ON: 1110 INITIAL FLOW RATE (Q=GPM):

TIME PUMP OFF: 1118 MEASURED BY: FLOW METER/ GRAD CYL / BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1115		1.98 Gal	90%	7.70	23.1	1107	159	1	26.12

METER SERIAL # CALIBRATED SAMPLER/EMPLOYER: silva90
 pH: 610883 YES/NO PROJECT: 3MRP
 SC: YES/NO SAMPLE PRESERVATION/AMT OF REAGENT: NA
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 1.41 / S300-DRUM
 H2O: YES/NO TF LOCATION: S300

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____

SAMPLE ID (VERIFY): W-26R-05/90BA TIME COLLECTED: 1118

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-05	3ANTONS	1	250 ml P	
BB	W-26R-05	3METALS	1	500ml P	
BB	W-26R-05	3METALS-FILTER	0	0	
BB	W-26R-05	3WETCHEM	2	500ml P	
AA	W-26R-05	SM9221	1	250 ml P	

Purged well daily since 8/10 to try and remove all CL. Was successful today and able to take sample

NOTE:
 Purge rate/time: N/A since est_ave_flow = 0
 Purge Volume: 10 gal.
 Revision: 08/12/2015

All Ground Water Sampling Data

Target Sample Date: 09-NOV-2015

Month: Norm Qtr: 4 Norm Year: 2015

WELL ID: W-26R-05 AREA INFO: S300/GSA/EGSA

DATE: 09-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30090

PURGE METHOD/SAMPLE METHOD: PB / 90RA CONTAMINANT PRESENT: TCE-3.3/NO3-53

SCREENED INTERVAL (ft-bmp): 22.05 - 27.05 INTAKE DEPTH: 0.00

CASING DEPTH(installed/sounded)(ft-bmp): 25.50 / 26.68 on 10-FEB-91 CASING VOL (Gal/Time): 2.50 $2.1 \times 90\% = 1.89$

DEPTH TO WATER(ft-bmp): 23.97 on 18-AUG-15 24.12 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 3.03 2.56 CASING DIAMETER/TCASING HT(in): 4.5 / 1.50

TIME PUMP ON: INITIAL FLOW RATE (Q=GPM):

TIME PUMP OFF: 3:44 MEASURED BY: FLOW METER/ GRAD CYL / BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
<u>0835</u>		<u>1.9</u>	<u>90%</u>	<u>8.03</u>	<u>14.0</u>	<u>1120</u>	<u>100</u>	<u>1</u>	

METER SERIAL # CALIBRATED SAMPLER/EMPLOYER: silva90
 PH: 6205340 YES/NO PROJECT: 3EMG
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: na
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 2.25 / S300-DRUM
 H2O: YES/NO TF LOCATION: S300

QC SAMPLE ID: QC LAB(S): QC SAMPLE TIME:

SAMPLE ID (VERIFY): W-26R-05/90RA TIME COLLECTED: 0944

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-05	E300.0:NO3	1	250 ml P	
BB	W-26R-05	SM2510B	1	250 ml P	
BB	W-26R-05	SM4500PH	1	250 ml P	
AA	W-26R-05	SM9221	1	250 ml P	

Add .5 oz of CL to well.

NOTE:
 Purge rate/time: N/A since est_sus_flow = 0
 Purge Volume: 10 gal.
 Revision: 10/28/2015

All Ground Water Sampling Data

Target Sample Date: 16-NOV-2015 Month: Norm Qtr: 4 Norm Year: 2015
 WELL ID: W-26R-05 AREA INFO: S300/GSA/EGSA
 DATE: 16-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30090
 PURGE METHOD/SAMPLE METHOD: PB / 90BA CONTAMINANT PRESENT: TCE-3.3/NO3-53
 SCREENED INTERVAL (ft-bmp): 22.05 - 27.05 INTAKE DEPTH: 0.00
 CASING DEPTH(installed/sounded)(ft-bmp): 25.50 / 26.68 on 10-FEB-91 CASING VOL (Gal/Time): 2.50 *1.8 x 10² l, 62 gal*
 DEPTH TO WATER(ft-bmp): 23.97 on 18-AUG-15 *24.44* VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 3.03 *2.24* CASING DIAMETER/TCASING HT(in): 4.5 / 1.50
 TIME PUMP ON: _____ INITIAL FLOW RATE (Q=GPM): _____
 TIME PUMP OFF: _____ MEASURED BY: FLOW METER/ GRAD CYL. BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1142		1.62	90%	7.99	18.8	1215	296	1	25.87

METER SERIAL # 6205340 CALIBRATED _____
 pH: _____ YES/NO _____
 SC: _____ YES/NO _____
 mV: _____ YES/NO _____
 H2O: _____ YES/NO _____
 SAMPLER/EMPLOYER: silva90
 PROJECT: 3EMG
 SAMPLE PRESERVATION/AMT of REAGENT: NA
 PURGE VOL/EXCESS H2O DEST: 2.25 / S300-DRUM
 TF LOCATION: S300

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____
 SAMPLE ID (VERIFY): W-26R-05 / 90BA TIME COLLECTED: 1150

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-05	E300_0-NO3	1	250 ml P	
BB	W-26R-05	SM251UB	1	250 ml P	
BB	W-26R-05	SM4500PH	1	250 ml P	
AA	W-26R-05	SM9221	1	250 ml P	

Evacuated all CL from well.
 Purged 2 x daily after initial sample on 11/9
 until CL was gone on 11/16 (today).

NOTE:
 Purge rate/time: N/A since est_sus_flow = 0
 Purge Volume: 10 gal.
 Revision: 10/28/2015

All Ground Water Sampling Data

Target Sample Date: 25-AUG-2015 Month: Norm Qtr: 3 Norm Year: 2015
 WELL ID: W-7DS AREA INFO: S300/GSA/EGSA
 DATE: 25-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30059
 PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: ND
 SCREENED INTERVAL (ft-bmp): 18.80 - 28.80 PUMP INTAKE DEPTH: 27.80
 CASING DEPTH(installed/sounded)(ft-bmp): 27.00 / 30.30 on 14-JAN-87 CASING VOL (Gal/Time): 10.38 $11.6 \times 3.0 = 34.8$
 DEPTH TO WATER(ft-bmp): 17.44 on 02-JUN-15 16.18 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 12.56 14.12 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00
 TIME PUMP ON: 0903 INITIAL FLOW RATE (Q=GPM): 3.0
 TIME PUMP OFF: 0927 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
0907		11.6	1	7.38	22.0	1591	120	1	16.64
0911		23.2	2	7.42	21.9	1593	112	1	16.68
0915		34.8	3	7.43	21.9	1592	102	1	16.75
0917				7.39	21.8	1592	100	1	
0919				7.39	21.9	1590	98	1	

METER SERIAL # 610883 CALIBRATED
 pH: YES/NO
 SC: YES/NO
 mV: YES/NO
 H2O: YES/NO
 SAMPLER/EMPLOYER: silva90
 PROJECT: 3MRP
 SAMPLE PRESERVATION/AMT of REAGENT: N/A
 PURGE VOL/EXCESS H2O DEST: 31.13 / S300-DRUM
 TF LOCATION: S300

QC SAMPLE ID: W-26R-42Y EGSAFB QC LAB(S): ALPHAANAL, BCLABS-BAK QC SAMPLE TIME: 1450
 SAMPLE ID (VERIFY): W 705 3043 TIME COLLECTED: 0927

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-42Y	S3ANIONS	1	250 ml P	
BB	W-7DS	S3ANIONS	1	250 ml P	
BB	EGSAFB	S3ANIONS	1	250 ml P	
BB	W-7DS	S3METALS	1	500ml P	
BB	W-26R-42Y	S3METALS	1	500ml P	
BB	EGSAFB	S3METALS	1	500ml P	
BB	EGSAFB	S3METALS:FILTER	0	0	
BB	W-7DS	S3METALS:FILTER	0	0	
BB	W-26R-42Y	S3METALS:FILTER	0	0	
BB	W-26R-42Y	S3WETCHEM	2	500ml P	
BB	W-7DS	S3WETCHEM	2	500ml P	
BB	EGSAFB	S3WETCHEM	2	500ml P	
AA	W-26R-42Y	SM9221	1	250 ml P	
AA	W-7DS	SM9221	1	250 ml P	
AA	EGSAFB	SM9221	1	250 ml P	

Added 2.0 of CL

All Ground Water Sampling Data

Target Sample Date: 26-AUG-2015

Month: Norm Qtr: 3 Norm Year: 2015

WELL ID: W-7DS AREA INFO: S300/GSA/EGSA
 DATE: 26-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30059
 PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: ND
 SCREENED INTERVAL (ft-bmp): 18.80 - 28.80 PUMP INTAKE DEPTH: 27.80
 CASING DEPTH(installed/sounded)(ft-bmp): 27.00 / 30.30 on 14-JAN-87 CASING VOL (Gal/Time): 10.38
 DEPTH TO WATER(ft-bmp): 17.44 on 02-JUN-15 16.20 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 12.56 14.10 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00
 TIME PUMP ON: 1029 INITIAL FLOW RATE (Q=GPM): 3.0
 TIME PUMP OFF: 1052 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1033		11.6	1	7.40	22.0	1588	488	1	
1037		23.2	2	7.41	22.0	1589	421	1	
1041		34.8	3	7.40	22.0	1583	377	1	
1043				7.39	21.8	1585	354	1	
1045				7.40	21.9	1586	318	1	
1049				7.41	21.9	1584	279		

METER SERIAL # 610883 CALIBRATED YES/NO SAMPLER/EMPLOYER: silva90
 pH: YES/NO PROJECT: 3MRP
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: NA
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 31.13 / S300-DRUM
 H2O: YES/NO TF LOCATION: B300

QC SAMPLE ID: W-26R-42Y EGSABF QC LAB(S): ALPHAANAL, BCLABS-BAK QC SAMPLE TIME: 1500

SAMPLE ID (VERIFY): W-7DS/3VES TIME COLLECTED: 1052

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-26R-42Y	SSANIONS	1	250 ml P	
BB	W-7DS	SSANIONS	1	250 ml P	
BB	EGSABF	SSANIONS	1	250 ml P	
BB	W-7DS	SMETALS	1	500ml P	
BB	W-26R-42Y	SMETALS	1	500ml P	
BB	EGSABF	SMETALS	1	500ml P	
BB	EGSABF	SMETALS:FILTER	0	0	
BB	W-7DS	SMETALS:FILTER	0	0	
BB	W-26R-42Y	SMETALS:FILTER	0	0	
BB	W-26R-42Y	SWETCHEM	2	500ml P	
BB	W-7DS	SWETCHEM	2	500ml P	
BB	EGSABF	SWETCHEM	2	500ml P	
AA	W-26R-42Y	SM9221	1	250 ml P	
AA	W-7DS	SM9221	1	250 ml P	
AA	EGSABF	SM9221	1	250 ml P	

Evacuated all CL

All Ground Water Sampling Data

Target Sample Date: 11-NOV-2015 Month: Norm Qtr: 4 Norm Year: 2015
 WELL ID: W-7DS AREA INFO: S300/GSA/EGSA
 DATE: 11-Nov-2015 LOG BOOK (DOCUMENT CONTROL) #: AA3009#2
 PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: ND
 SCREENED INTERVAL (ft-bmp): 18.80 - 28.80 PUMP INTAKE DEPTH: 27.80
 CASING DEPTH(installed/sounded)(ft-bmp): 27.00 / 30.30 on 14-JAN-87 CASING VOL (Gal/Time): 11.40
 DEPTH TO WATER(ft-bmp): 16.20 on 25-AUG-15 17.03 VOLUME FACTOR: 0.826
 WATER IN CASING (ft): 13.80 13.27 CASING DIAMETER/TCASING HT(in): 4.5 / 3.00
 TIME PUMP ON: 1054 INITIAL FLOW RATE (Q=GPM): _____
 TIME PUMP OFF: _____ MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1058		11	1	7.47	22.2	1618	412	1	17.11
1102		22	2	7.44	22.4	1620	379	1	17.19
1106		33	3	7.43	22.4	1615	360	1	17.22
1108				7.42	22.3	1616	348	1	
1110				7.40	22.3	1614	322	1	

METER SERIAL # CALIBRATED SAMPLER/EMPLOYER: silva90
 pH: _____ YES/NO PROJECT: 3CMP 3EMG
 SC: _____ YES/NO SAMPLE PRESERVATION/AMT of REAGENT: NA
 mV: _____ YES/NO PURGE VOL/EXCESS H2O DEST: 34.20 / S300-DRUM
 H2O: _____ YES/NO TF LOCATION: S300

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____
 SAMPLE ID (VERIFY): W-7DS / 3VES TIME COLLECTED: 1115

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-7DS	E300.0:NO3	1	250 ml-P	
BB	W-7DS	E624MOD	3	40 ml-V	
BB	W-7DS	SM2510B	1	250 ml-P	
BB	W-7DS	SM4500PH	1	250 ml-P	
AA	W-7DS	SM9221	1	250 ml P	

Evacuated all CL from well

All Ground Water Sampling Data

Target Sample Date: 10-AUG-2015

Month: Norm Qtr: 3 Norm Year: 2015

WELL ID: W-25N-22 AREA INFO: S300/GSA/EGSA

DATE: 10-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30051

PURGE METHOD/SAMPLE METHOD: Grundfos / 3VES CONTAMINANT PRESENT: TCE-1.2

SCREENED INTERVAL (ft-bmp): 20.80 - 30.80 PUMP INTAKE DEPTH: 31.05

CASING DEPTH(installed/sounded)(ft-bmp): 28.50 / 32.50 on 09-JAN-12 CASING VOL (Gal/Time): 4.54 $6.4 \times 3.0 = 19.2$

DEPTH TO WATER(ft-bmp): 25.51 on 28-MAY-15 24.71 VOLUME FACTOR: 0.826 6.1

WATER IN CASING (ft): 5.49 7.79 CASING DIAMETER/TCASING HT(in): 4.5 / 2.50

TIME PUMP ON: 10.45 INITIAL FLOW RATE (Q=GPM): 1.92

TIME PUMP OFF: _____ MEASURED BY FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1052	.9	6.4	1	7.60	23.5	1511	-65	1	27.55
1059	.9	12.8	2	7.55	23.6	1544	-63	1	
1106	.9	19.2	3	7.55	23.5	1621	-49	1	
1106				7.52	23.5	1618	-47	1	
1110				7.52	23.5	1611	-43	1	

METER SERIAL # 610863 CALIBRATED YRS/NO _____
 pH : _____ YES/NO _____
 SC : _____ YES/NO _____
 mV : _____ YES/NO _____
 H2O: _____ YES/NO _____

SAMPLER/EMPLOYER: silva90
 PROJECT: 3MRP
 SAMPLE PRESERVATION/AMT of REAGENT: NA
 PURGE VOL/EXCESS H2O DEST: 13.61 / S300-DRUM
 TF LOCATION: S300

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____

SAMPLE ID (VERIFY): W-25N-22 / 3VES TIME COLLECTED: 1115

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-25N-22	S3ANIONS	1	250 ml P	
BB	W-25N-22	S3METALS	1	500ml P	
BB	W-25N-22	S3METALS:FILTER	0	O	
BB	W-25N-22	S3WETCHEM	2	500ml P	
AA	W-25N-22	SM922T	1	250 ml P	

Added 02 of CL

All Ground Water Sampling Data

Target Sample Date: 11-AUG-2015

Month: Norm Qtr: 3 Norm Year: 2015

WELL ID: W-25N-22 AREA INFO: S300/GSA/EGSA

DATE: 11-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30051

PURGE METHOD/SAMPLE METHOD: Grundfos / 3VES CONTAMINANT PRESENT: TCE-1.2

SCREENED INTERVAL (ft-bmp): 20.80 - 30.80 PUMP INTAKE DEPTH: 31.05

CASING DEPTH(installed/sounded)(ft-bmp): 28.50 / 32.50 on 09-JAN-12 CASING VOL (Gal/Time): 4.54 *0.4X 219.2 and*

DEPTH TO WATER(ft-bmp): 25.51 on 28-MAY-15 *24.73* VOLUME FACTOR: 0.826

WATER IN CASING (ft): 5.49 *7.77* CASING DIAMETER/TCASING HT(in): 4.5 / 2.50

TIME PUMP ON: 0918 INITIAL FLOW RATE (Q=GPM): _____

TIME PUMP OFF: 0949 MEASURED BY: FLOW METER/ GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	mv SC	mv SC	OG	DTW
0925		6.4	1	7.58	23.4	297	1497	1	27.53
0932		12.8	2	7.55	23.5	293	1521	1	28.10
0938		19.2	3	7.53	23.5	184	1533	1	Top of Pump
0940				7.53	23.5	165	1548		
0942				7.53	23.5	160	1562		

METER SERIAL # 600853 CALIBRATED
 PH: _____ YES/NO
 SC: _____ YES/NO
 mV: _____ YES/NO
 H2O: _____ YES/NO

SAMPLER/EMPLOYER: silva90
 PROJECT: 3MRP
 SAMPLE PRESERVATION/AMT of REAGENT: Na
 PURGE VOL/EXCESS H2O DEST: 13.61 / S300-DRUM
 TF LOCATION: S300

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____

SAMPLE ID (VERIFY): W-25N-22 / 3VES TIME COLLECTED: 0949

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-25N-22	ANIONS	1	250 ml P	
BB	W-25N-22	3METALS	1	500ml P	
BB	W-25N-22	3METALS FILTER	0	0	
DB	W-25N-22	3METALS	2	500ml P	
AA	W-25N-22	SM9221	1	250 ml P	

Evacuated all CL

All Ground Water Sampling Data

Target Sample Date: 10-AUG-2015

Month: Norm Qtr: 3 Norm Year: 2015

WELL ID: W-25N-23 AREA INFO: S300/GSA/EGSA

DATE: 10-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30051

PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: *TCE-6.0

SCREENED INTERVAL (ft-bmp): 21.80 - 36.80 PUMP INTAKE DEPTH: 35.70

CASING DEPTH(installed/sounded)(ft-bmp): 35.30 / 37.15 on 09-JAN-12 CASING VOL (Gal/Time): 12.19 $12.5 \times 30 = 37.56$

DEPTH TO WATER(ft-bmp): 23.05 on 28-MAY-15 21.93 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 14.75 15.22 CASING DIAMETER/TCASING HT(in): 4.5 / 2.50

TIME PUMP ON: 1139 INITIAL FLOW RATE (Q=GPM): 1.0 Q

TIME PUMP OFF: _____ MEASURED BY: FLOW METER GRAD CYL./ BUCKET/ OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1152		12.5	1	7.47	23.7	1435	-52	1	22.97
1205		25	2	7.28	23.6	1442	-27	1	23.12
1218		37.5	3	7.36	23.8	1444	-25	1	23.20
1210				7.34	23.7	1440	-29	1	
1222				7.34	23.7	1438	-27		

METER SERIAL # 610883 CALIBRATED YES
 PH: _____ YES/NO
 SC: _____ YES/NO
 mV: _____ YES/NO
 H2O: _____ YES/NO

SAMPLER/EMPLOYER: silva90
 PROJECT: 3MRP
 SAMPLE PRESERVATION/AMT of REAGENT: NA
 PURGE VOL/EXCESS H2O DEST: 36.56 / S300-DRUM
 TF LOCATION: S300

QC SAMPLE ID: _____ QC LAB(S): _____ QC SAMPLE TIME: _____

SAMPLE ID (VERIFY): W-25N-23 / 3VES TIME COLLECTED: 1228

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-25N-23	S3ANIONS	1	250 ml P	
BB	W-25N-23	S3METALS	1	500ml P	
BB	W-25N-23	S3METALS:FILTER	0	O	
BB	W-25N-23	S3WETCHEM	2	500ml P	
AA	W-25N-23	SM9221	1	250 ml P	

All Ground Water Sampling Data

Target Sample Date: 11-AUG-2015

Month: Norm Qtr: 3 Norm Year: 2015

WELL ID: W-25N-23 AREA INFO: S300/GSA/EGSA

DATE: 11-Aug-2015 LOG BOOK (DOCUMENT CONTROL) #: AA30051

PURGE METHOD/SAMPLE METHOD: GF / 3VES CONTAMINANT PRESENT: *TCE-6.0

SCREENED INTERVAL (ft-bmp): 21.80 - 36.80 PUMP INTAKE DEPTH: 35.70

CASING DEPTH(installed/sounded)(ft-bmp): 35.30 / 37.15 on 09-JAN-12 CASING VOL (Gal/Time): 12.19 12.5 x 30 = 375

DEPTH TO WATER(ft-bmp): 23.05 on 28-MAY-15 21.95 VOLUME FACTOR: 0.826

WATER IN CASING (ft): 14.75 15.2 CASING DIAMETER/TCASING HT(in): 4.5 / 2.50

TIME PUMP ON: 1012 INITIAL FLOW RATE (Q=GPM): 1.0 @

TIME PUMP OFF: 1108 MEASURED BY: FLOW METER / GRAD CYL. / BUCKET / OTHER

TIME	Q	GAL PURGED	VOLUMES	pH	TEMP C	SC	mV	OG	DTW
1015	1.0	12.5	1	7.39	23.6	1462	733	1	23.00
1037	1.0	25	2	7.29	23.9	1453	610	1	23.19
1050	1.0	37.5	3	7.25	23.9	1450	501	1	23.29
1052	1.0			7.24	23.7	1444	437	1	
1054	1.0			7.25	23.7	1433	340	1	
1059	1.0			7.26	23.7	1430	295	1	
1104	1.0			7.26	23.6	1431	272		

METER SERIAL # 610683 CALIBRATED YES/NO SAMPLER/EMPLOYER: silva90
 pH: YES/NO PROJECT: 3MRP
 SC: YES/NO SAMPLE PRESERVATION/AMT of REAGENT: NA
 mV: YES/NO PURGE VOL/EXCESS H2O DEST: 36.56 / S300-DRUM
 H2O: YES/NO TF LOCATION: S300

QC SAMPLE ID: - QC LAB(S): - QC SAMPLE TIME: -

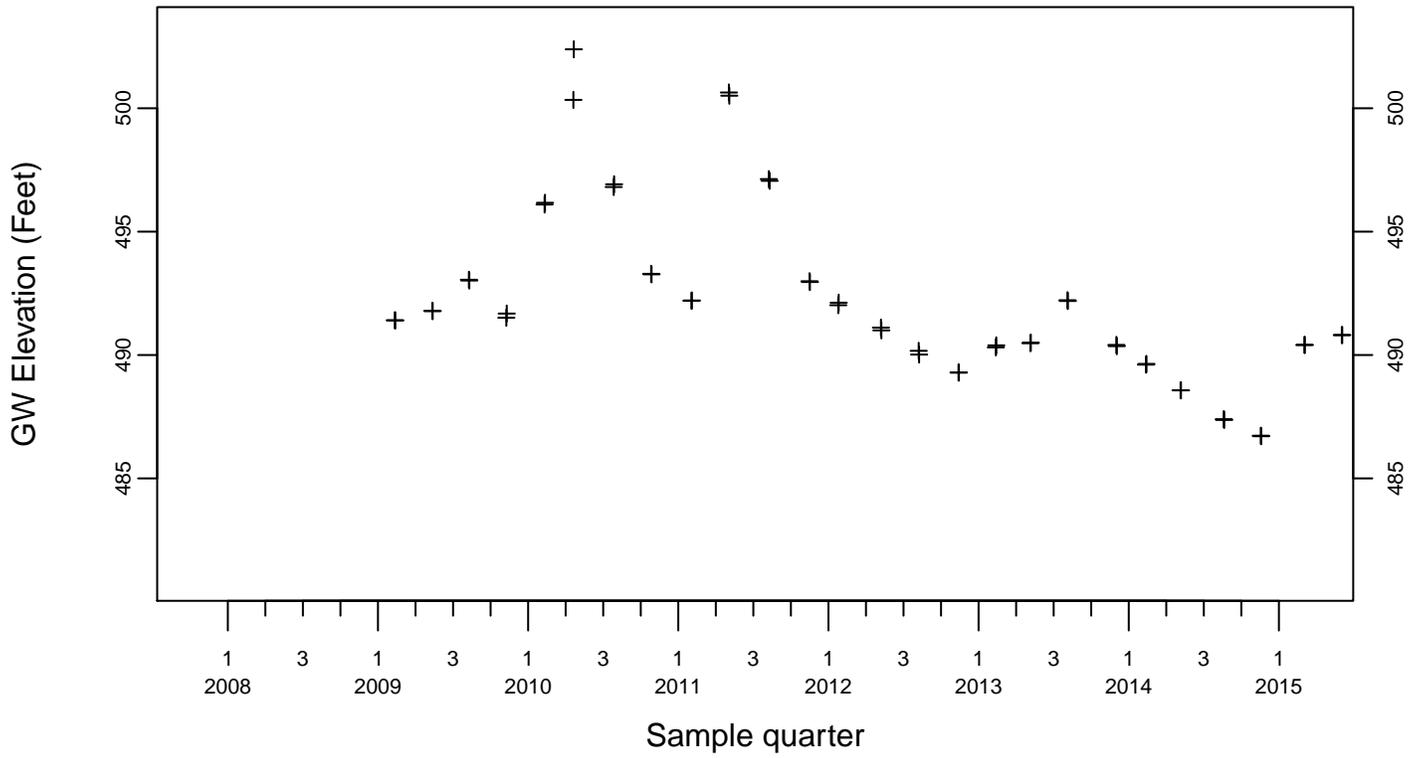
SAMPLE ID (VERIFY): W-25N-23 / 3VES TIME COLLECTED: 1108

LAB	LAB_LOC_NAME	REQUESTED ANALYSIS	#	TYPE	SAMPLER_REMARKS
BB	W-25N-23	SANITONS	1	250 ml P	
BB	W-25N-23	SIMETALS	1	500ml P	
BB	W-25N-23	S3METALS-FILTER	0	U	
BB	W-25N-23	S3METALS	2	500ml P	
AA	W-25N-23	SM9221	1	250 ml P	

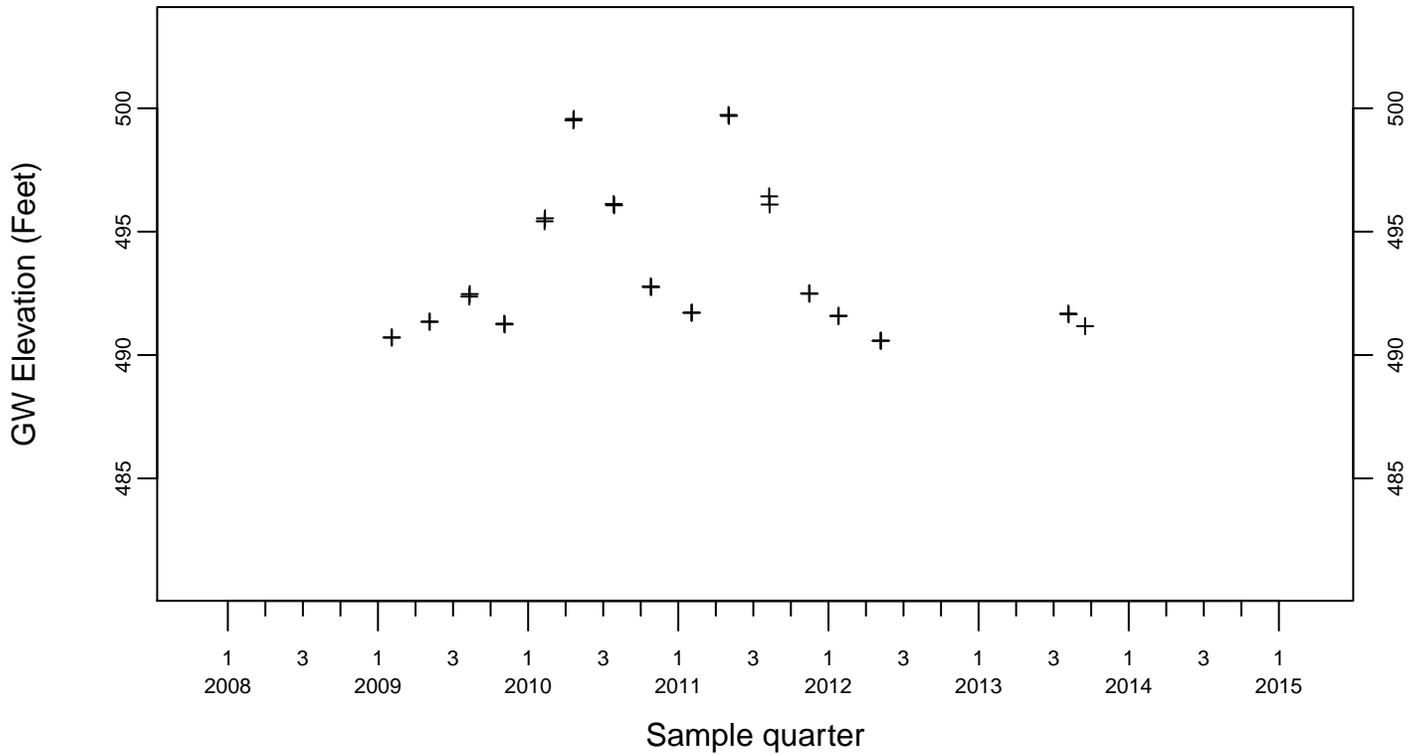
Evacuated all CL

Sewage Ponds Ground Water GW Elevation (Feet)

Upgradient Monitor Well W-7ES

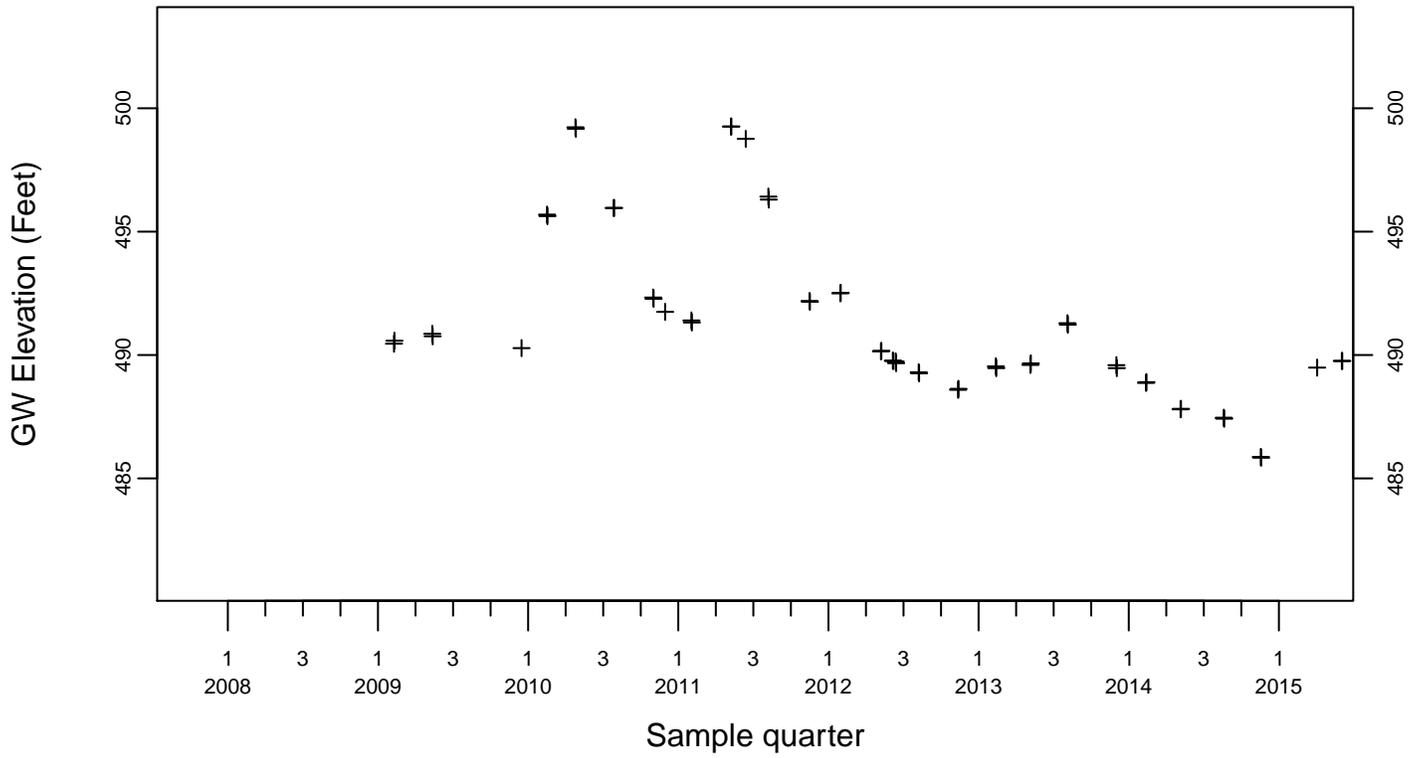


Upgradient Monitor Well W-7PS

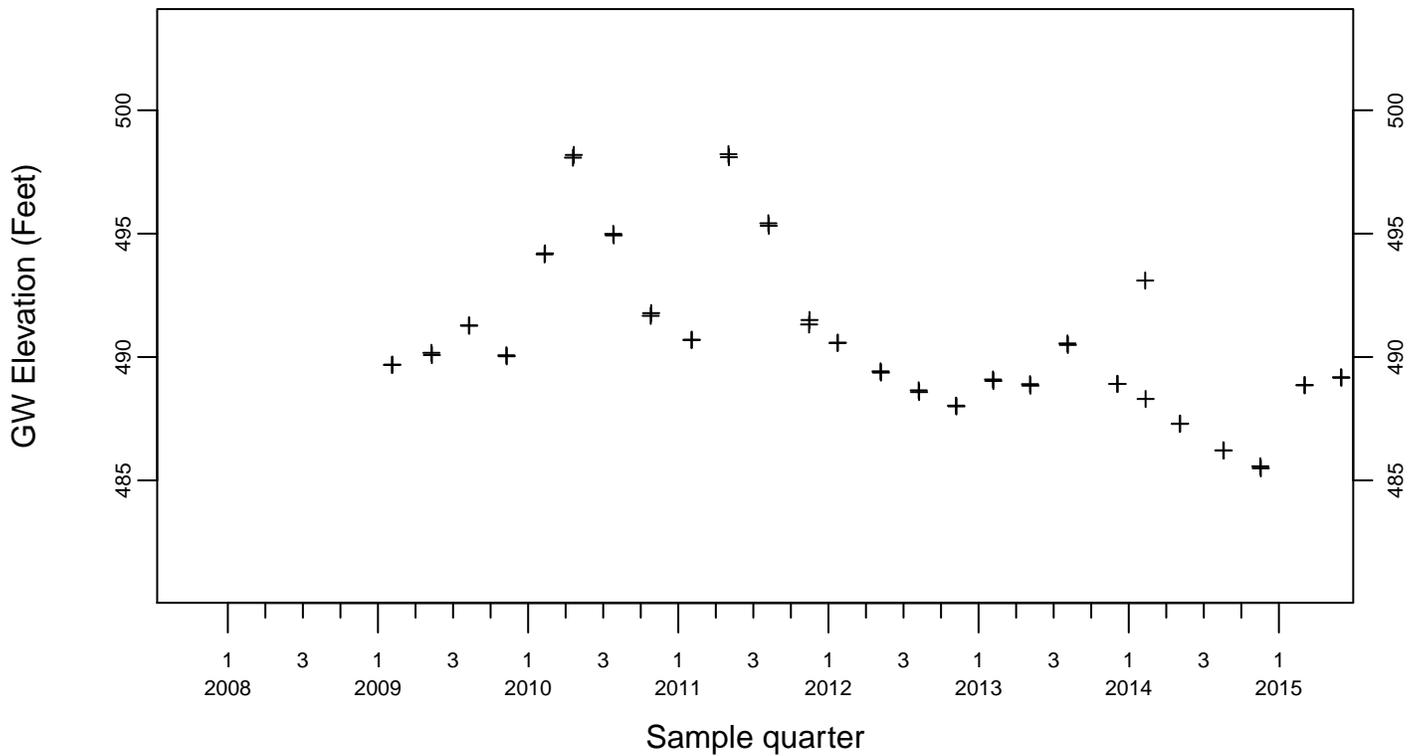


Sewage Ponds Ground Water GW Elevation (Feet)

Crossgradient Monitor Well W-35A-04

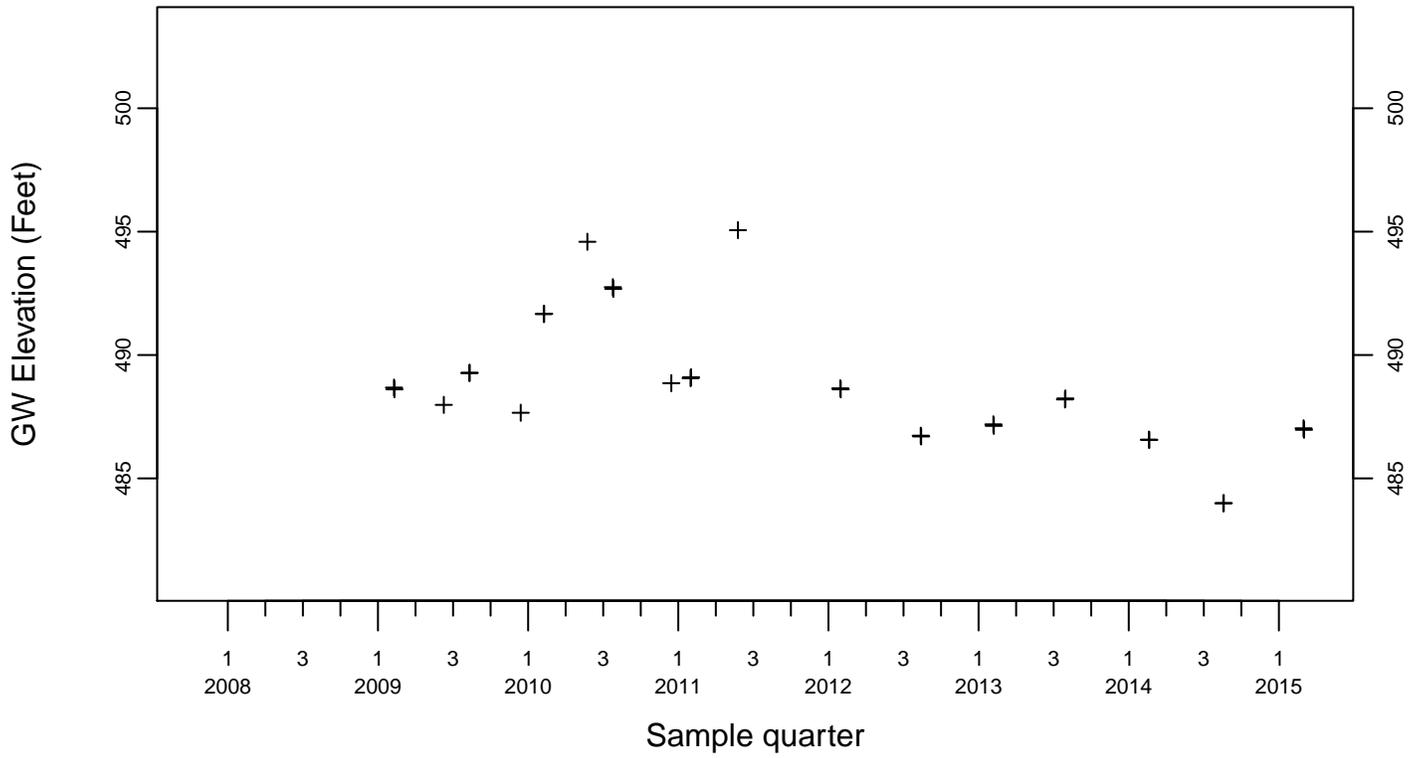


Downgradient Monitor Well W-7DS

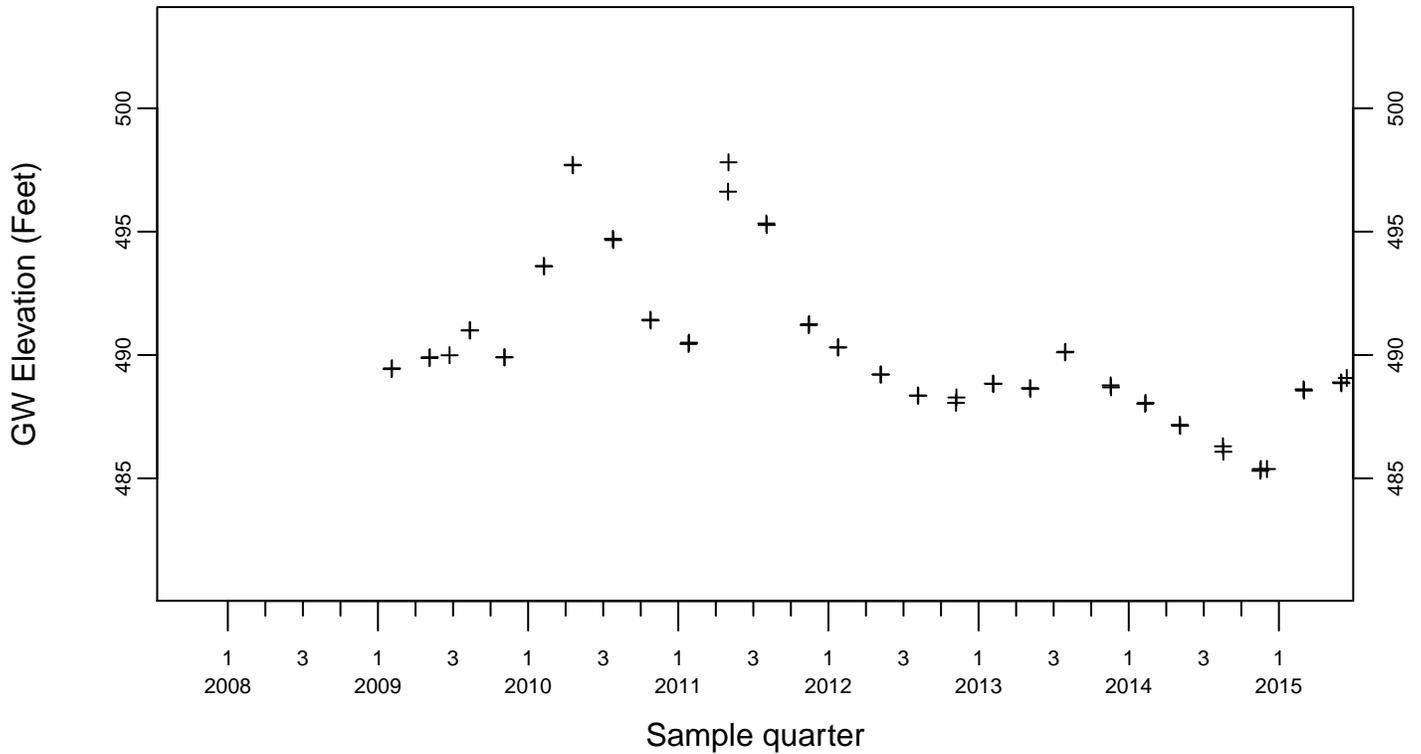


Sewage Ponds Ground Water GW Elevation (Feet)

Downgradient Monitor Well W-25N-23

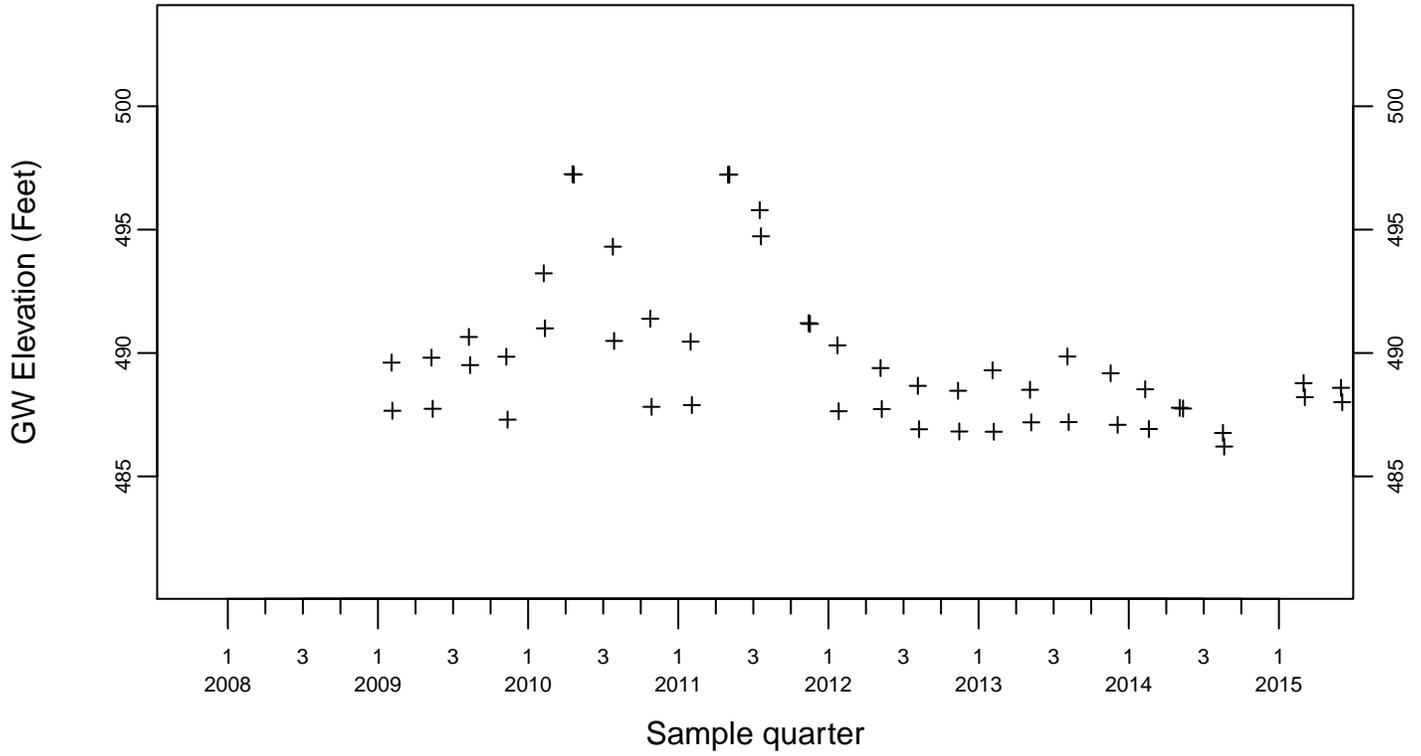


Downgradient Monitor Well W-26R-01

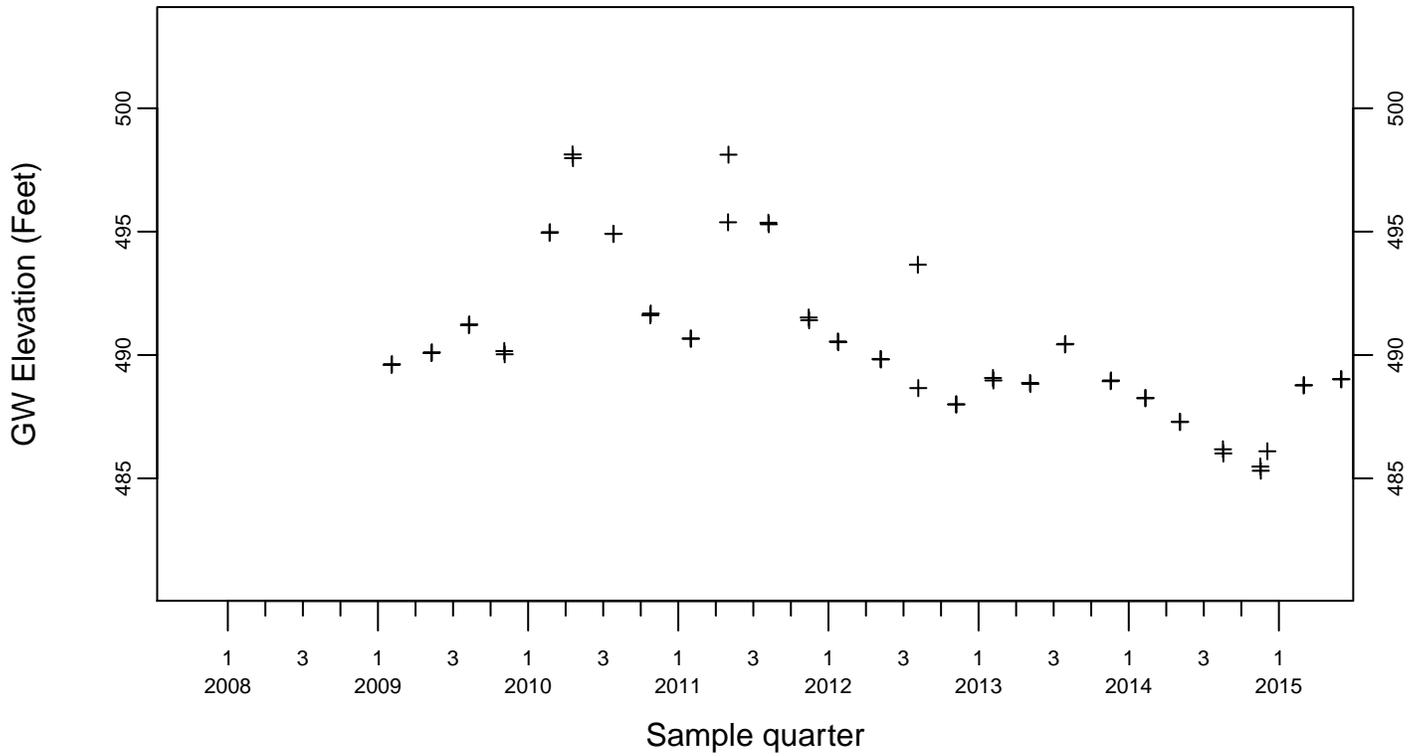


Sewage Ponds Ground Water GW Elevation (Feet)

Downgradient Monitor Well W-26R-05



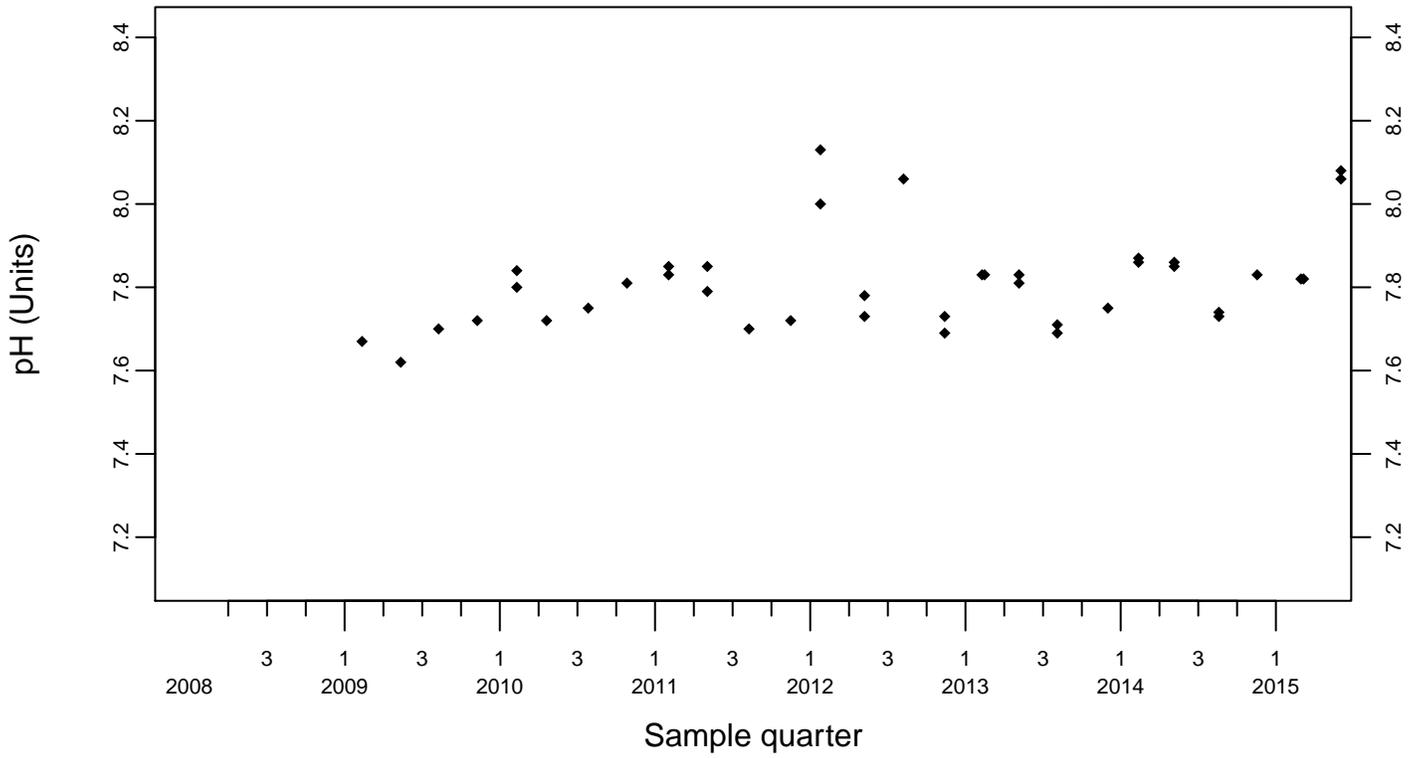
Downgradient Monitor Well W-26R-11



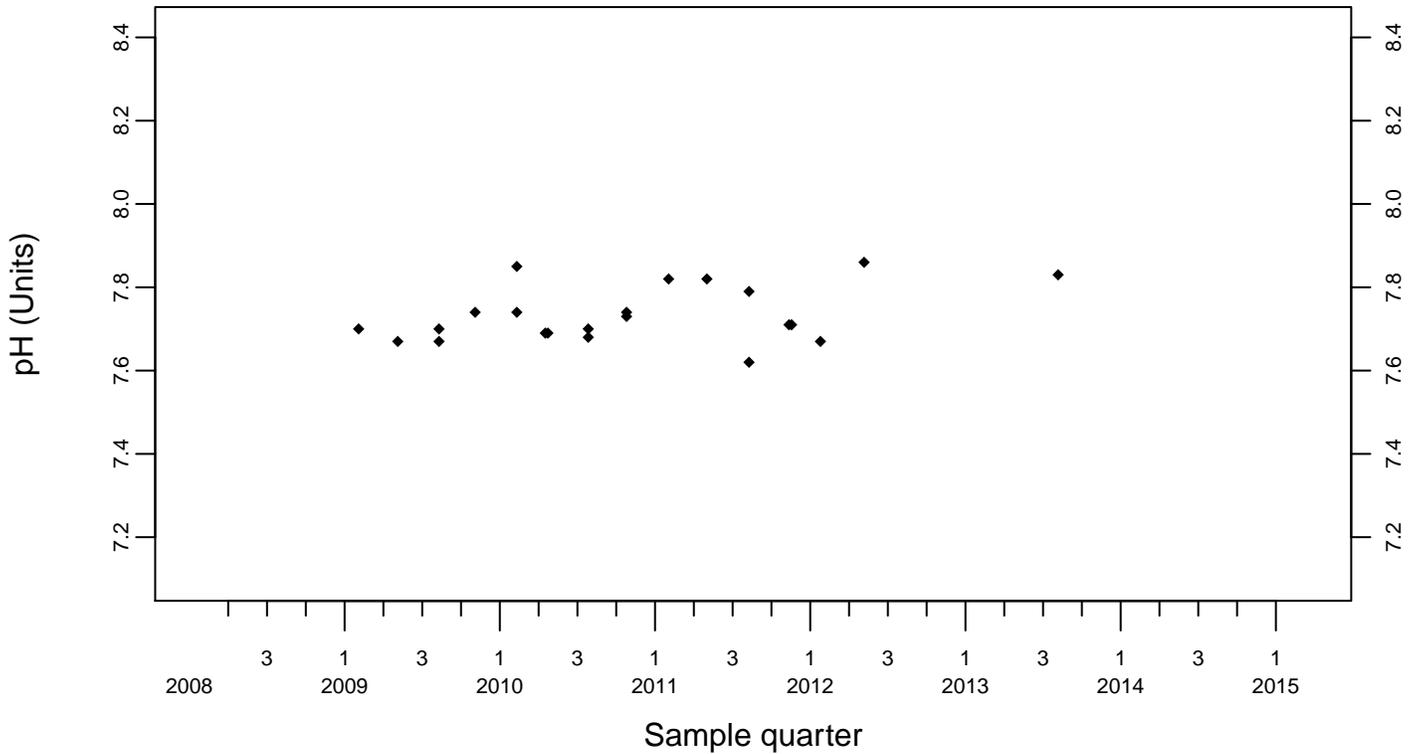
Sewage Ponds Ground Water pH (Units)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL



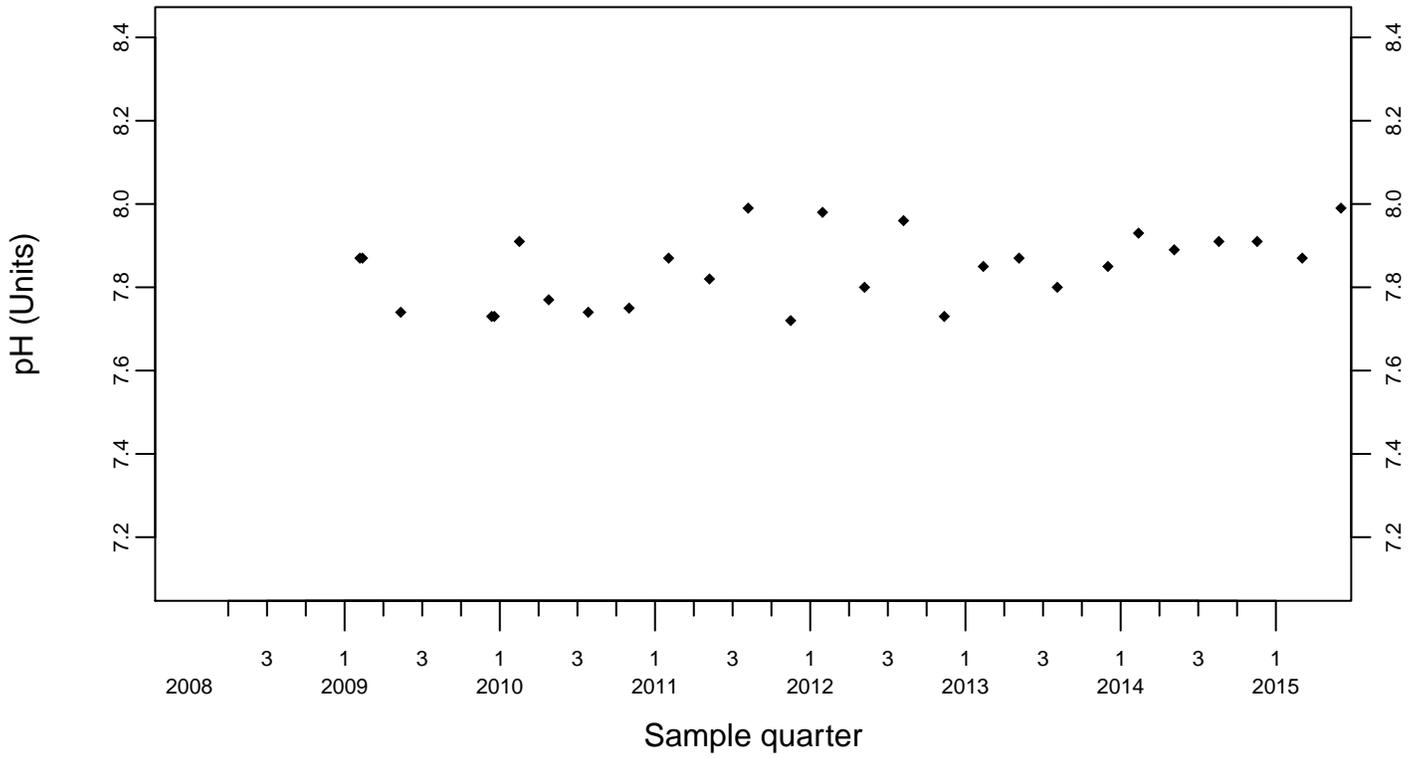
Upgradient Monitor Well W-7PS



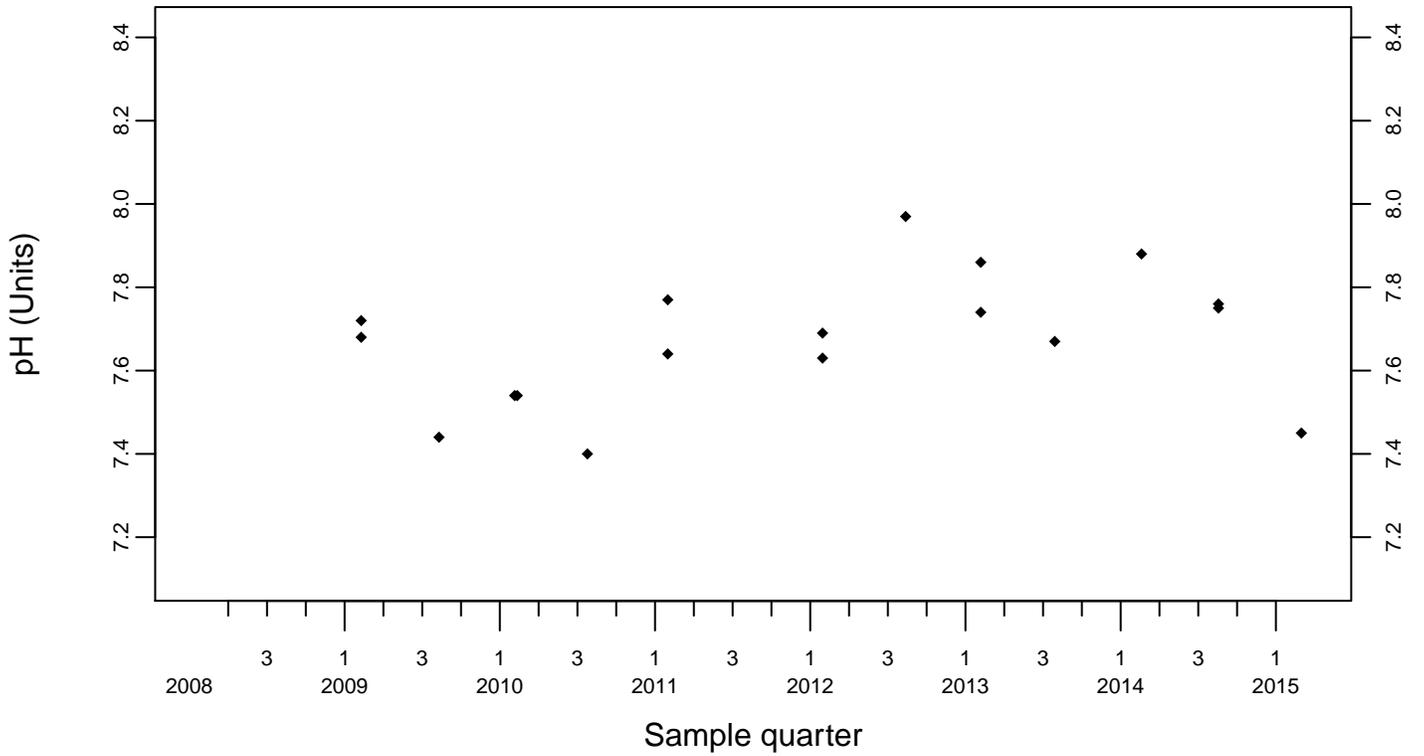
Sewage Ponds Ground Water pH (Units)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



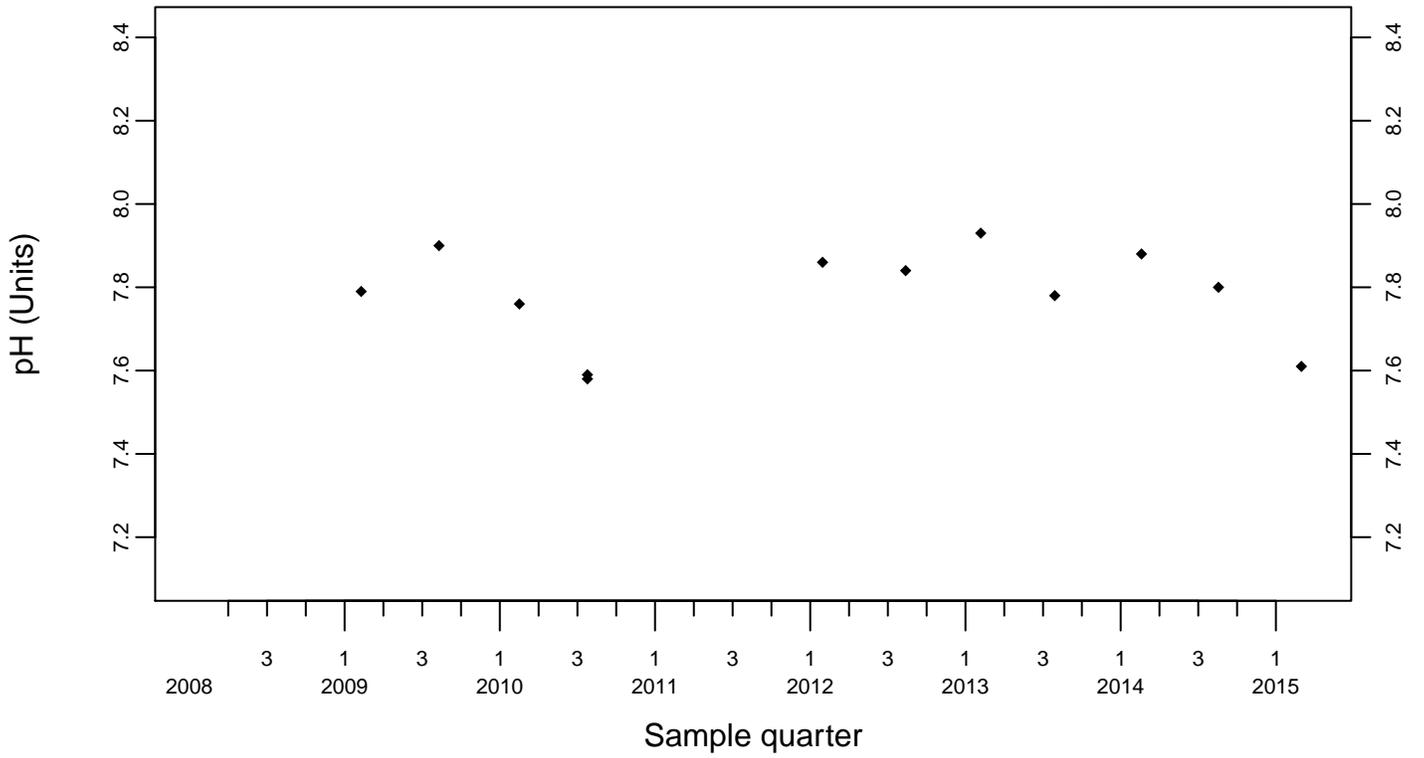
Downgradient Monitor Well W-25N-23



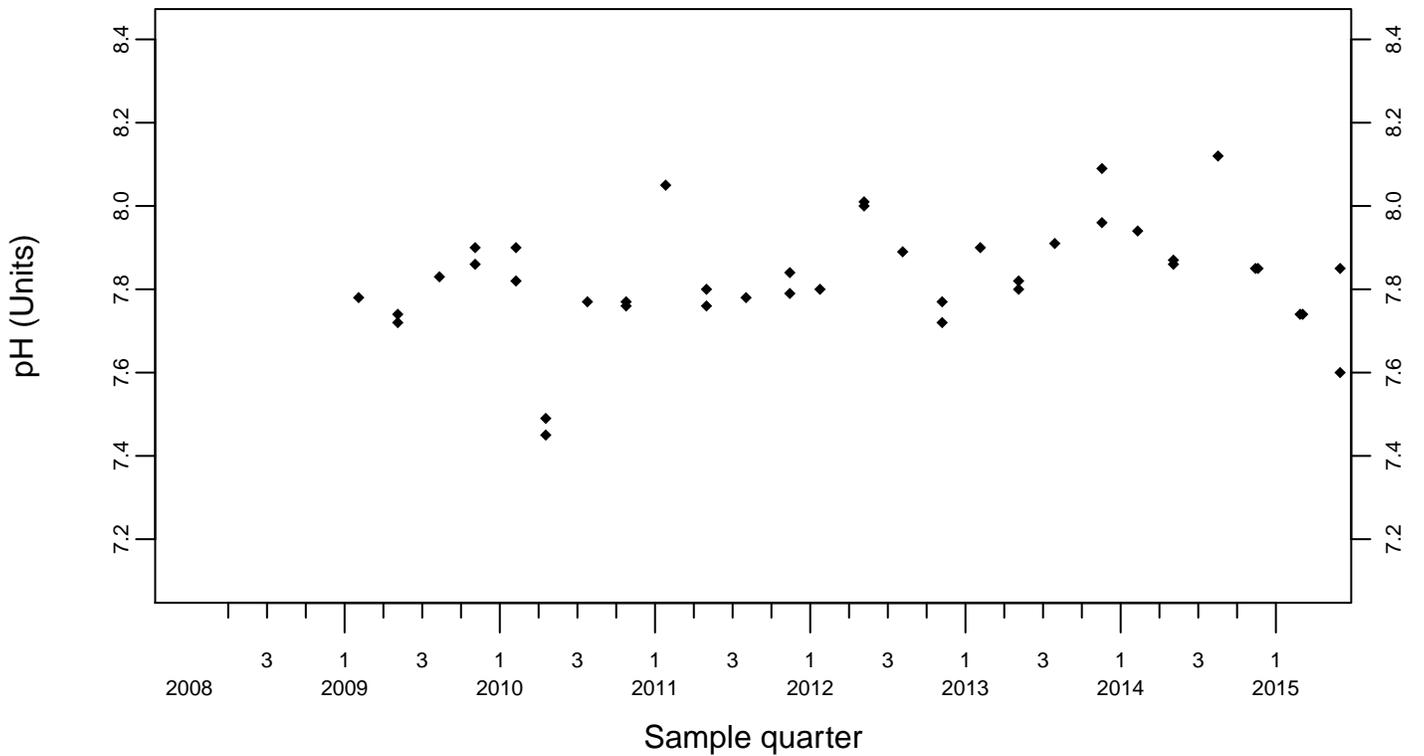
Sewage Ponds Ground Water pH (Units)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



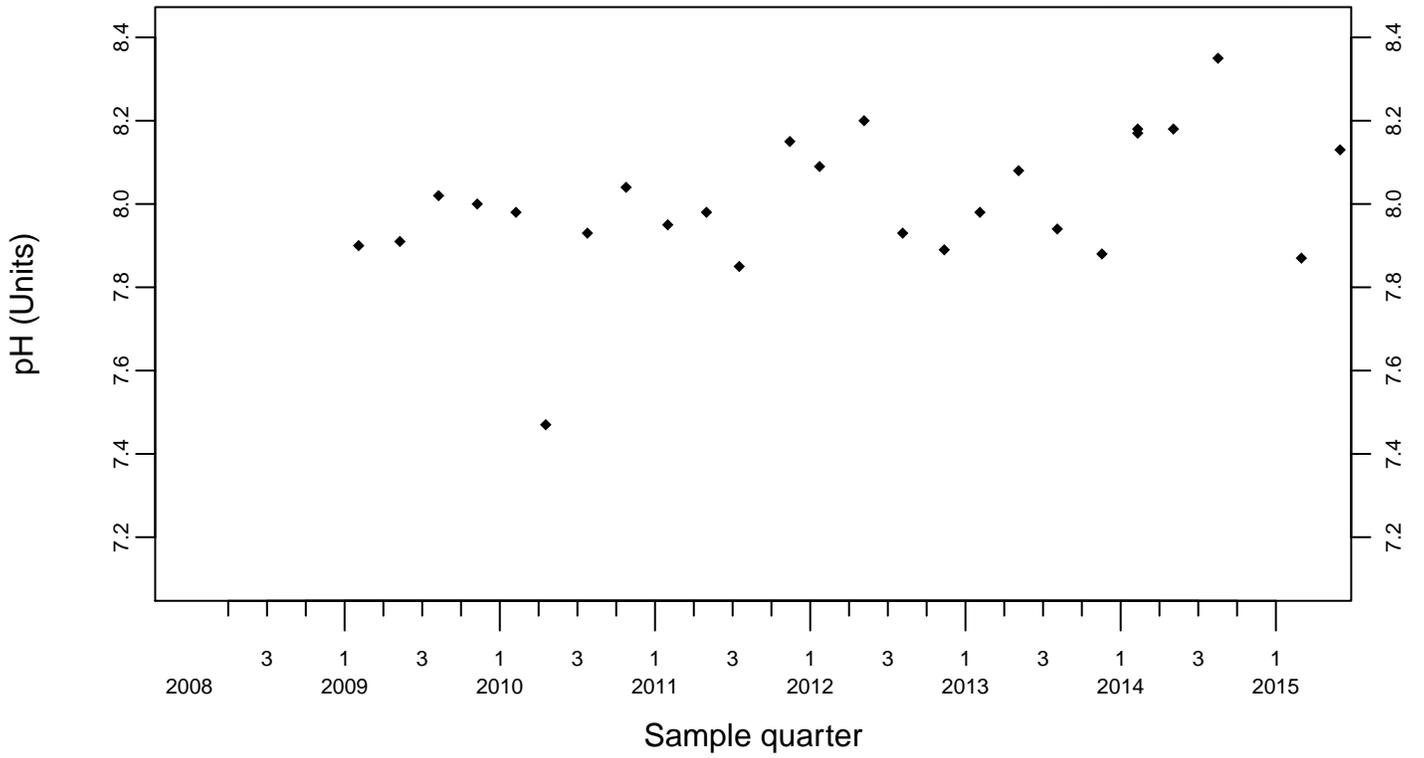
Downgradient Monitor Well W-26R-01



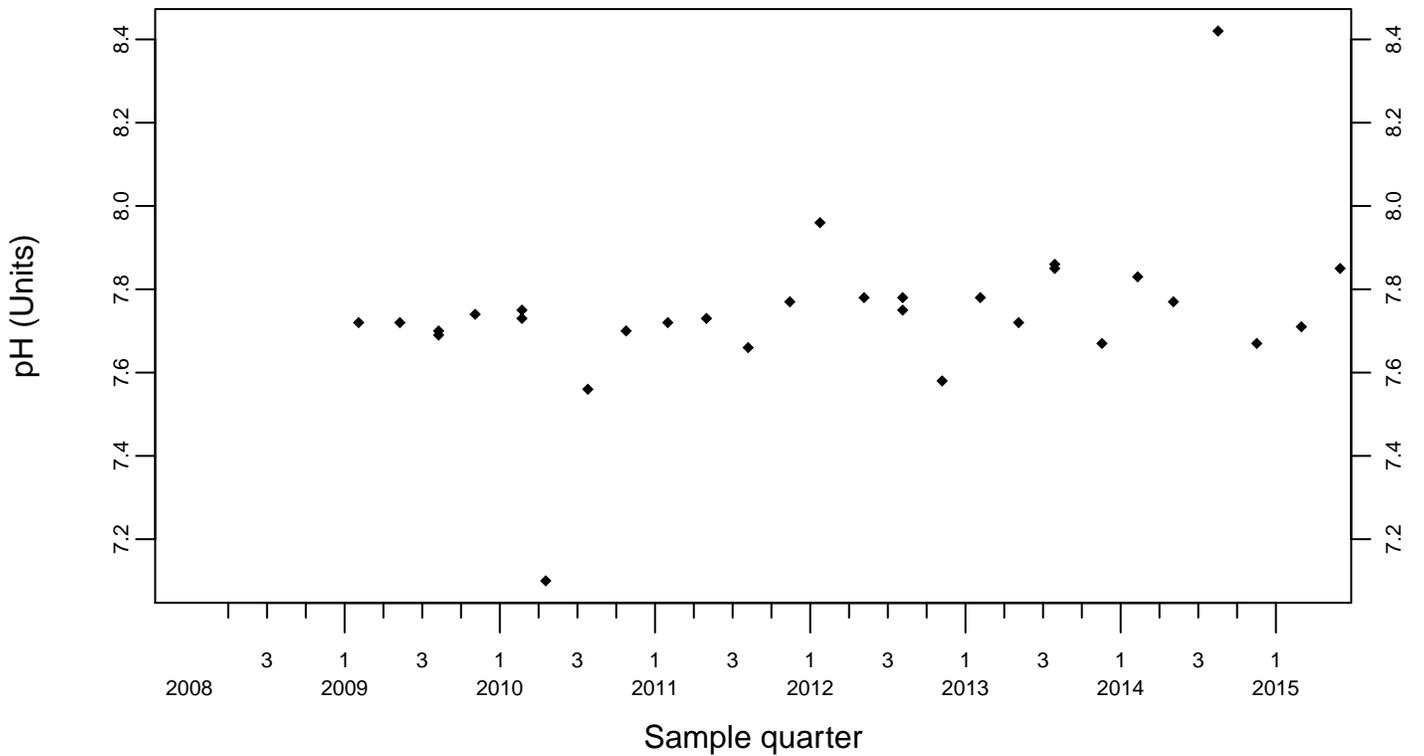
Sewage Ponds Ground Water pH (Units)

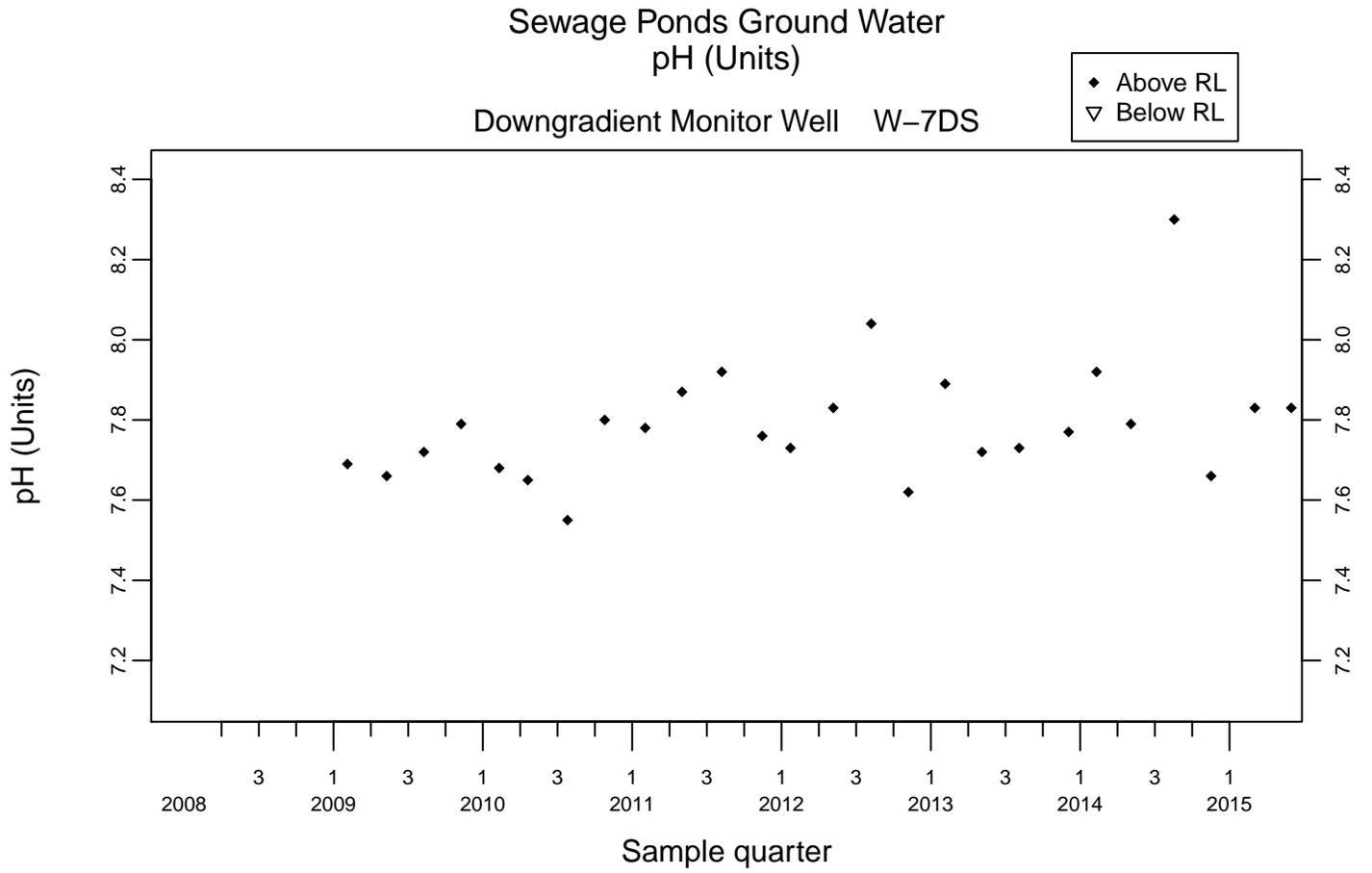
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

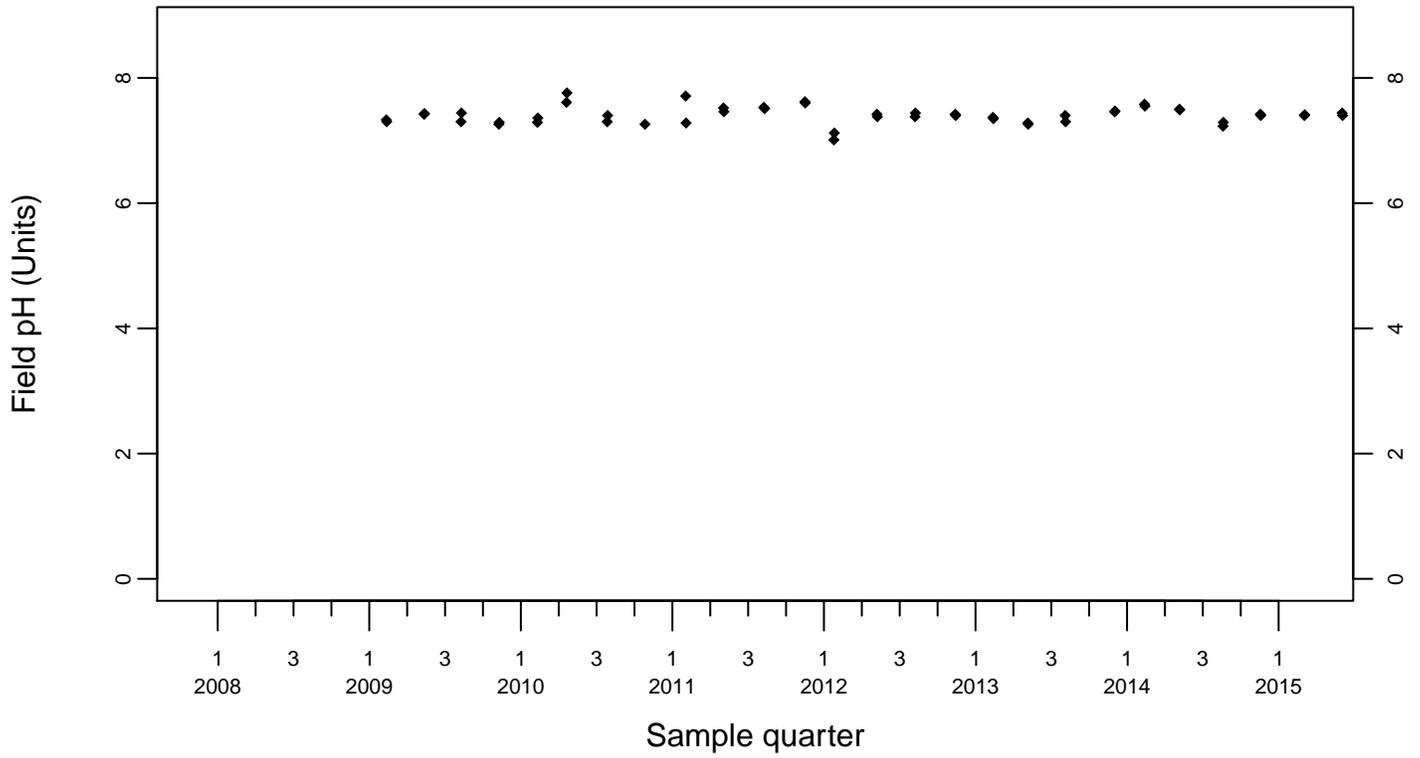




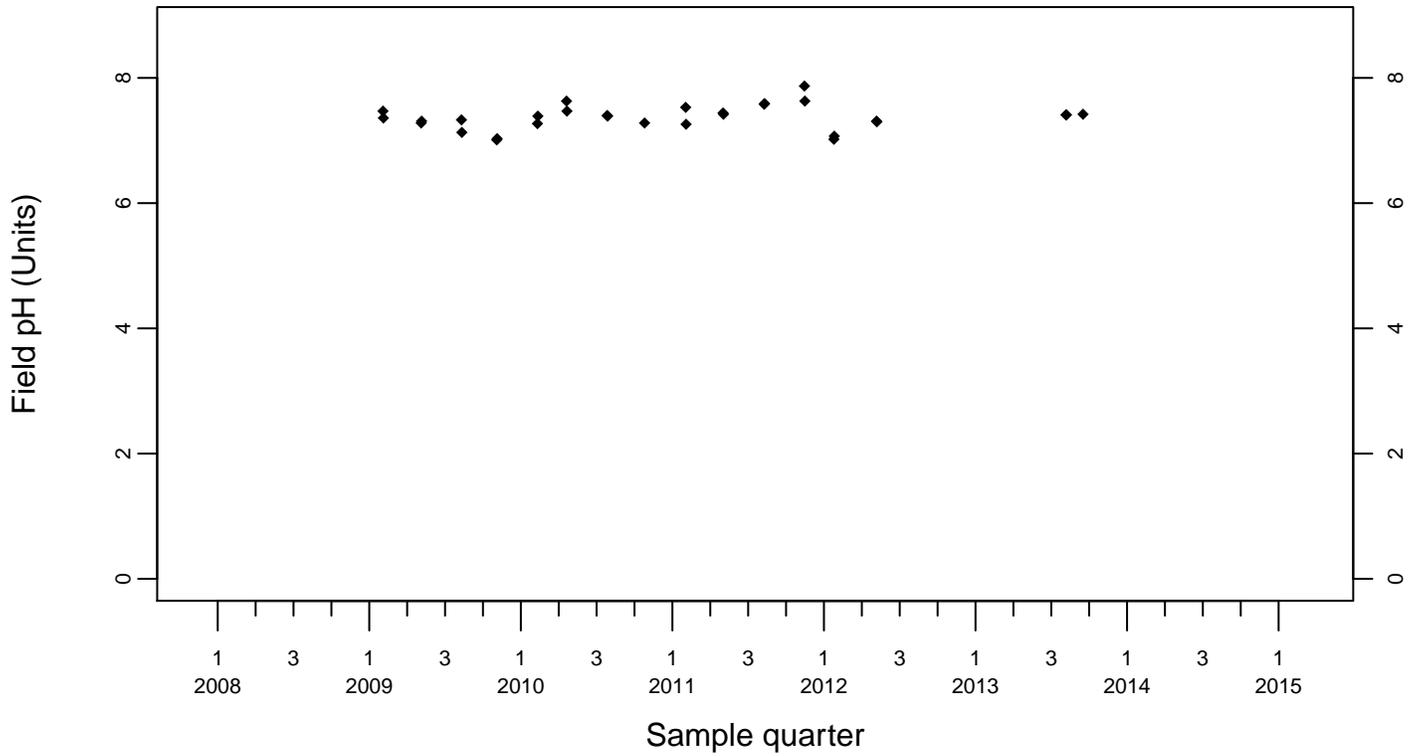
Sewage Ponds Ground Water Field pH (Units)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL



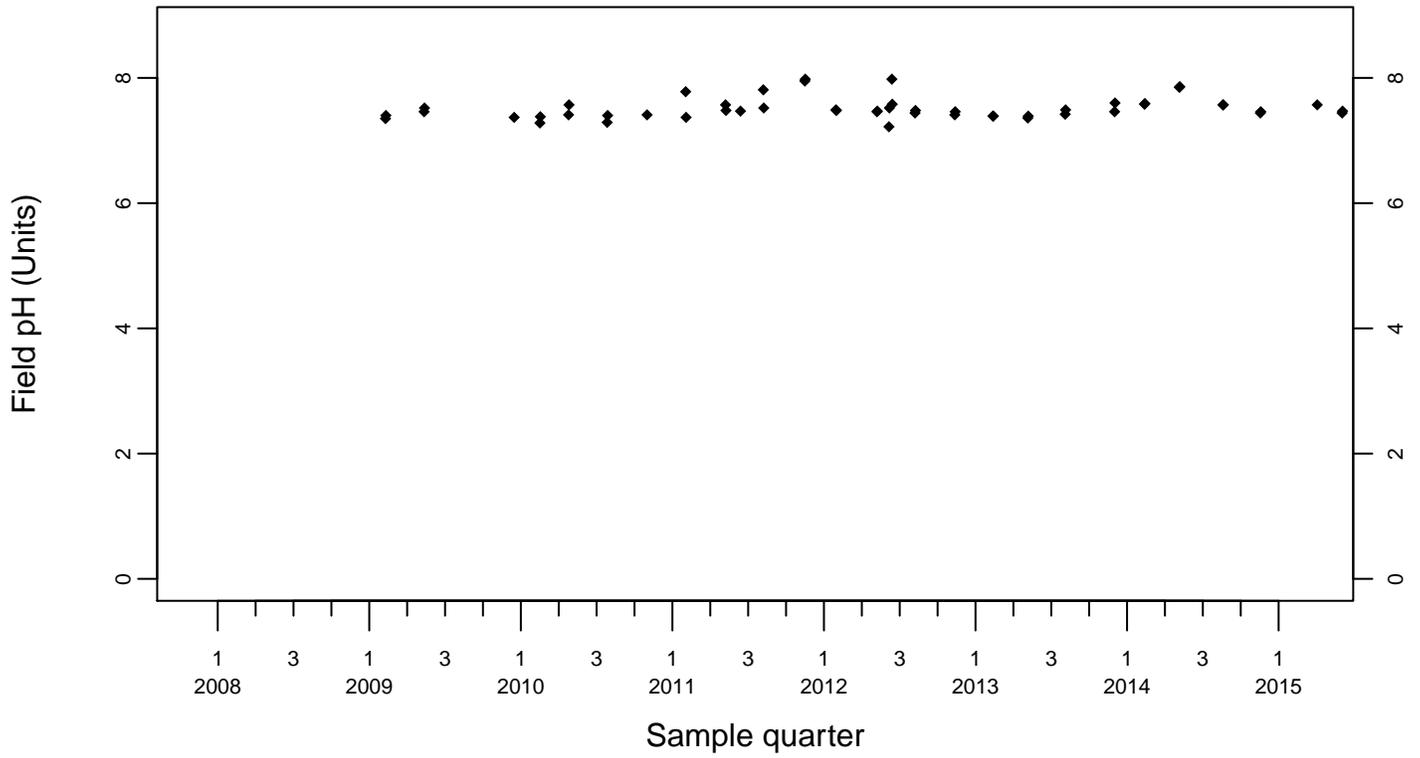
Upgradient Monitor Well W-7PS



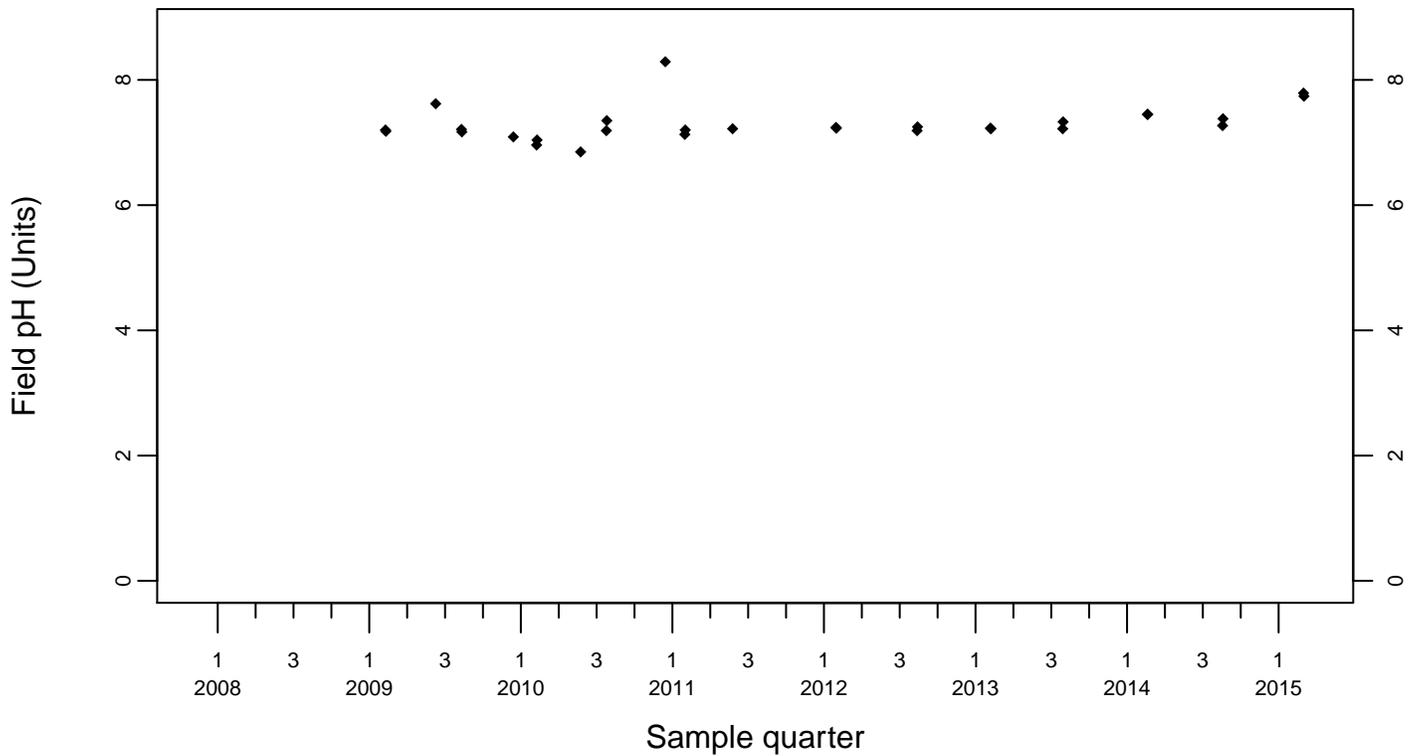
Sewage Ponds Ground Water Field pH (Units)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



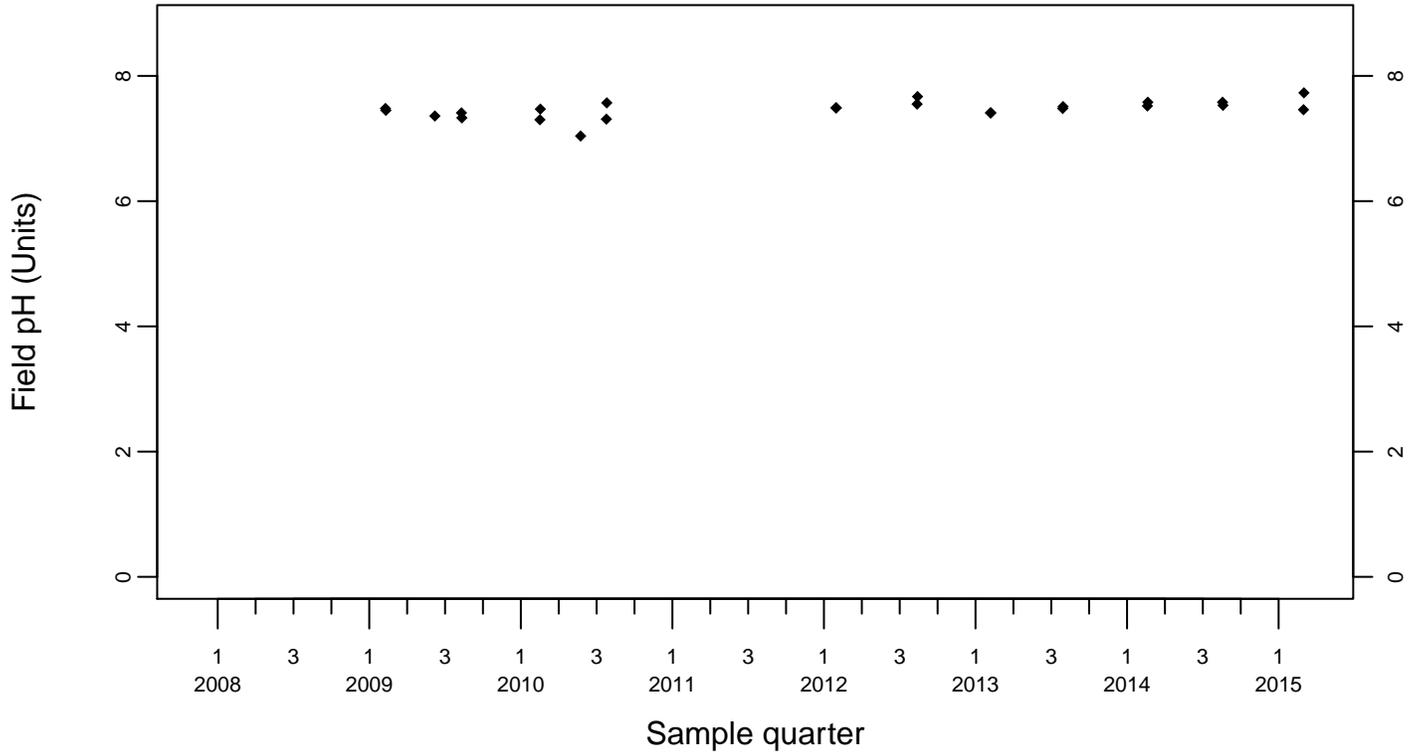
Downgradient Monitor Well W-25N-23



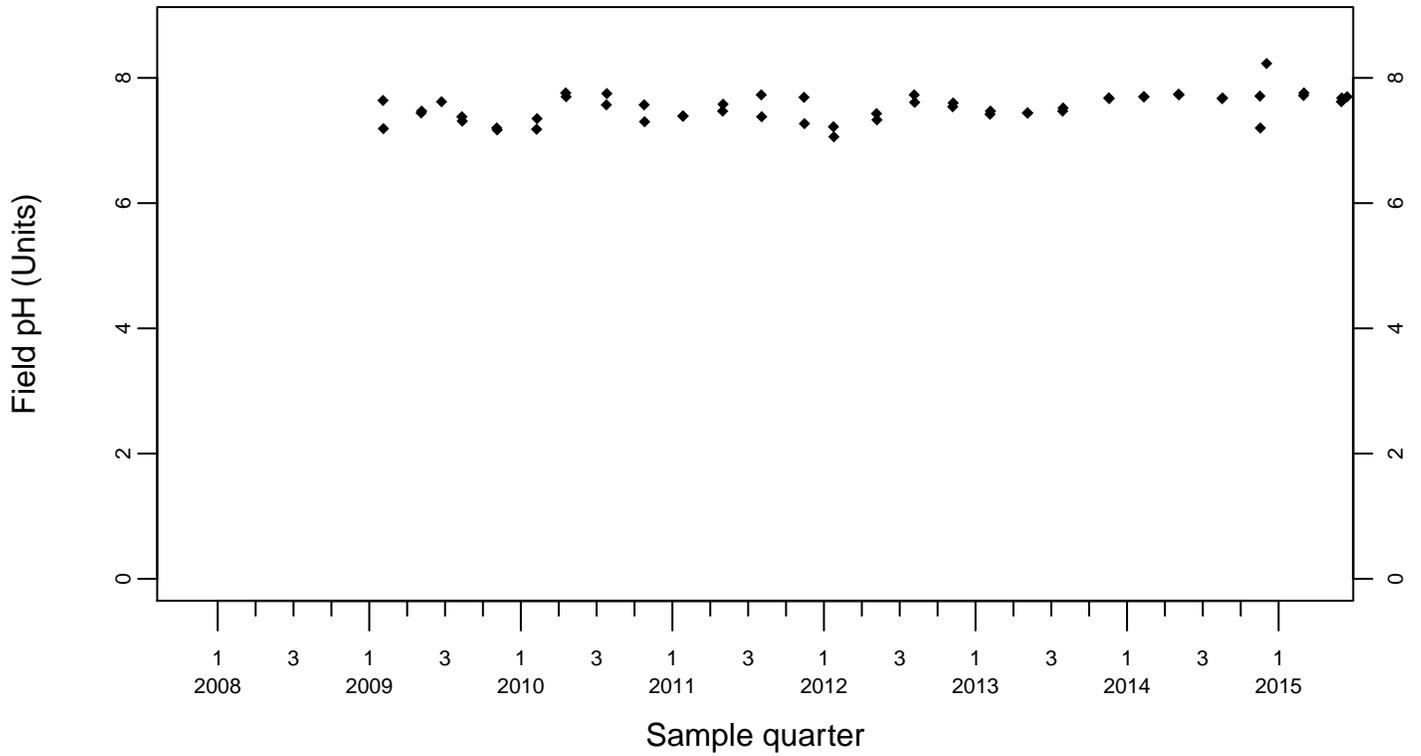
Sewage Ponds Ground Water Field pH (Units)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



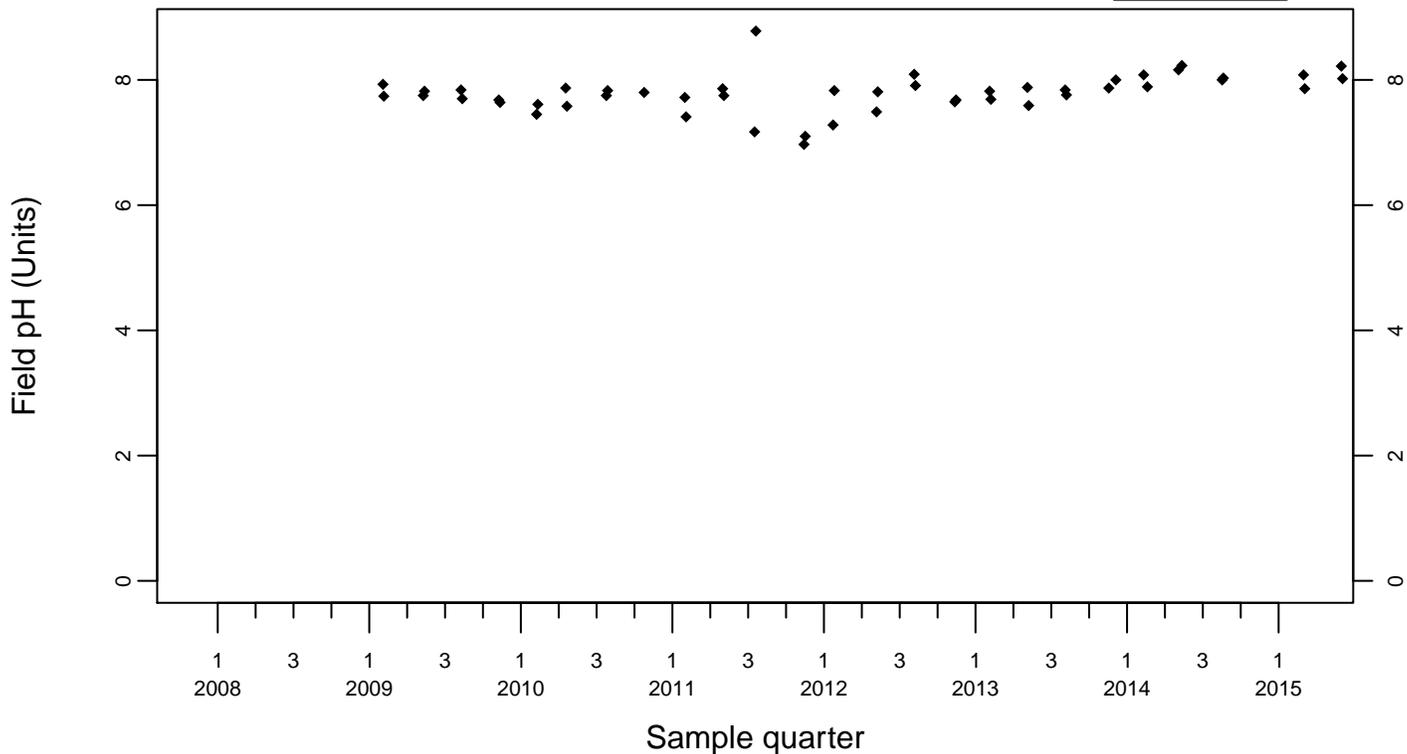
Downgradient Monitor Well W-26R-01



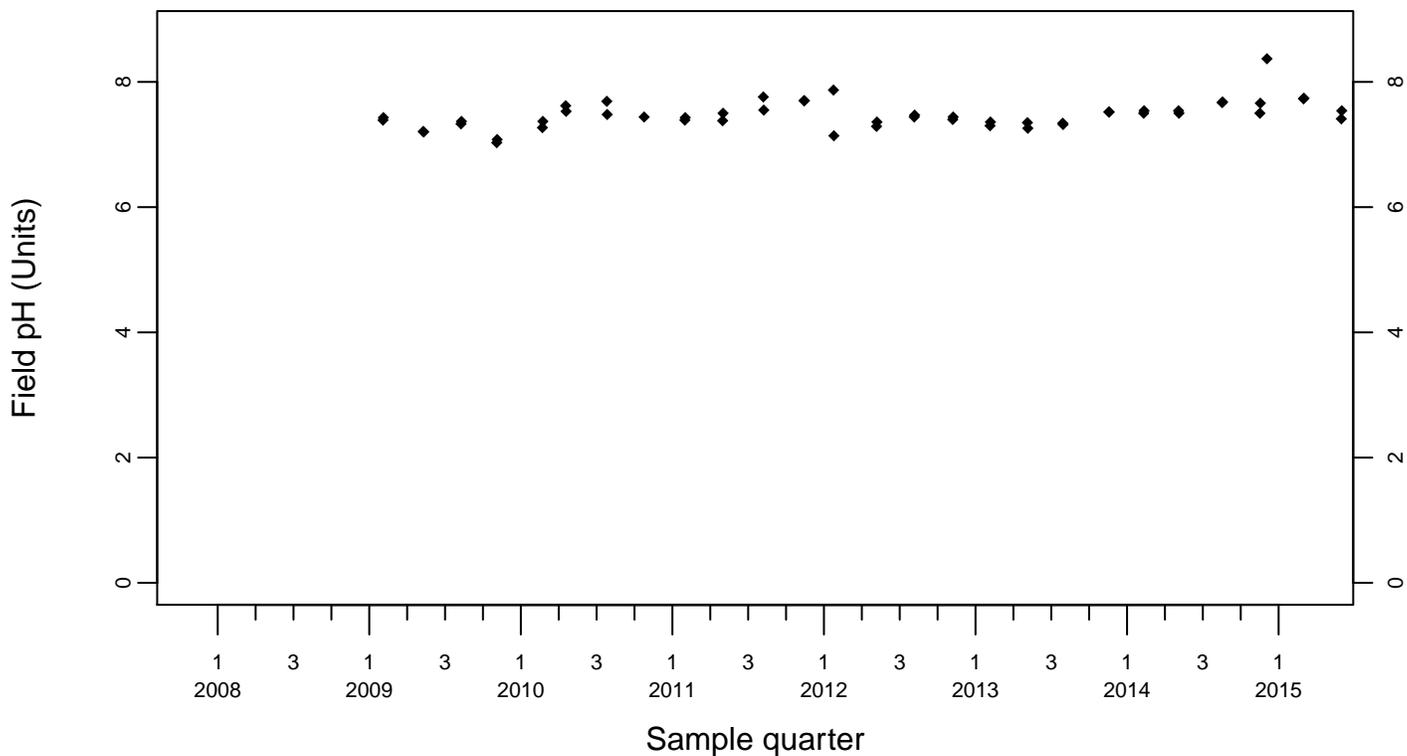
Sewage Ponds Ground Water Field pH (Units)

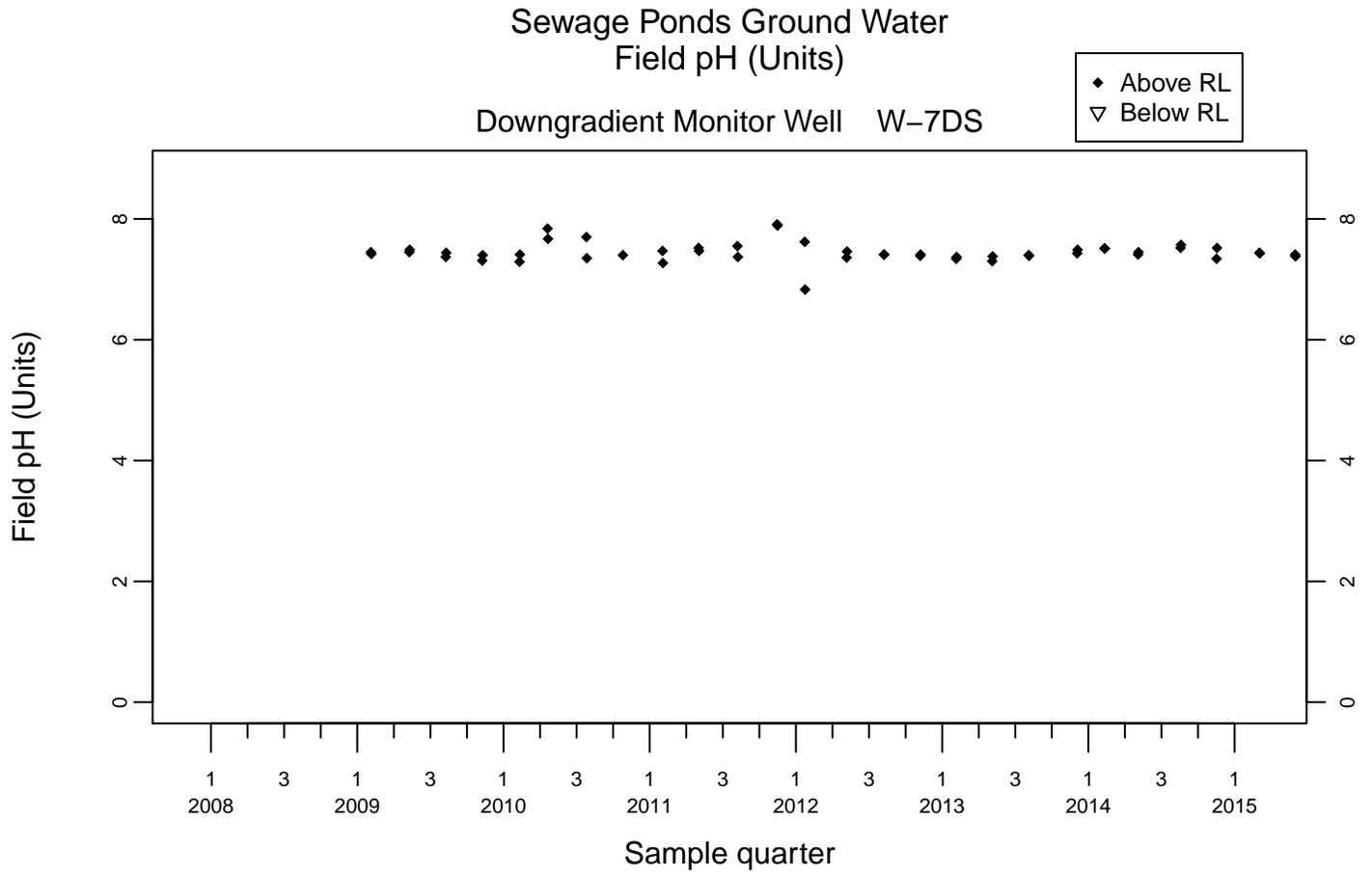
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

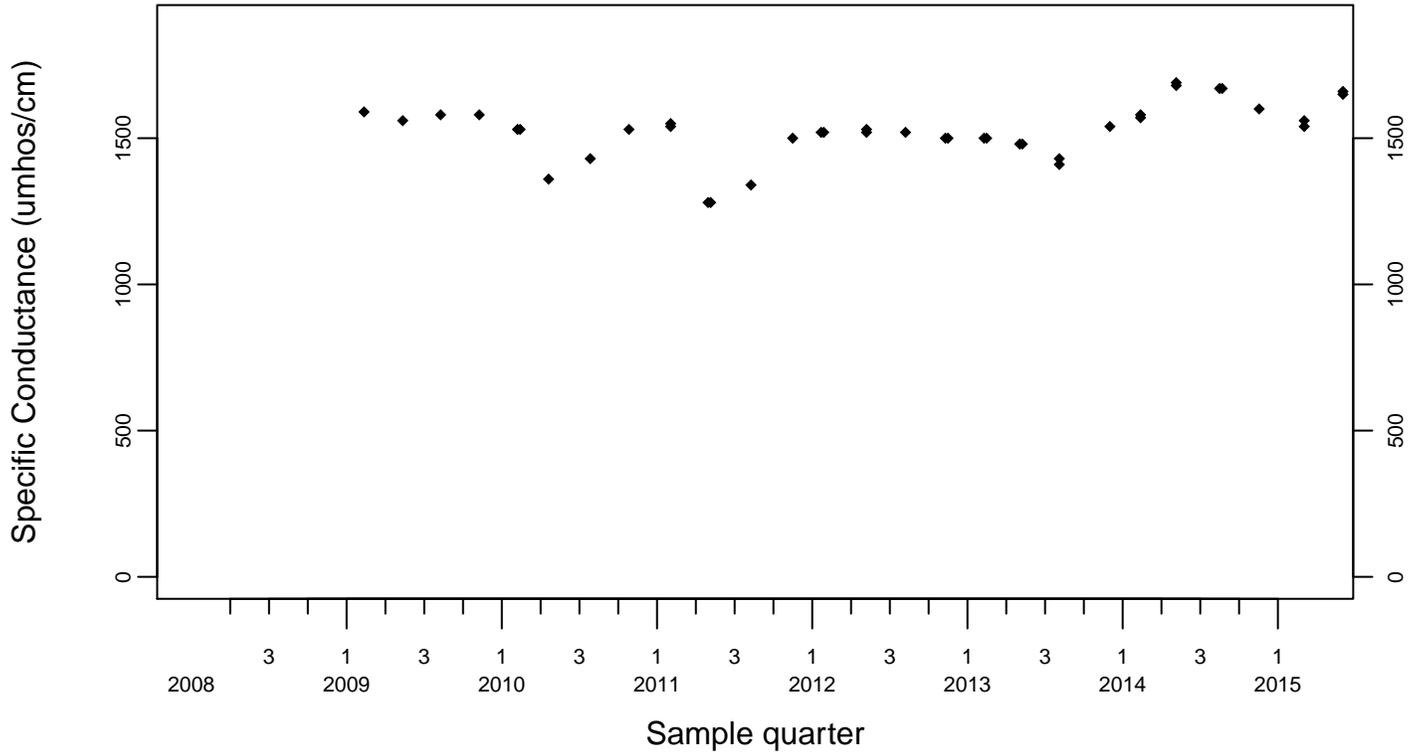




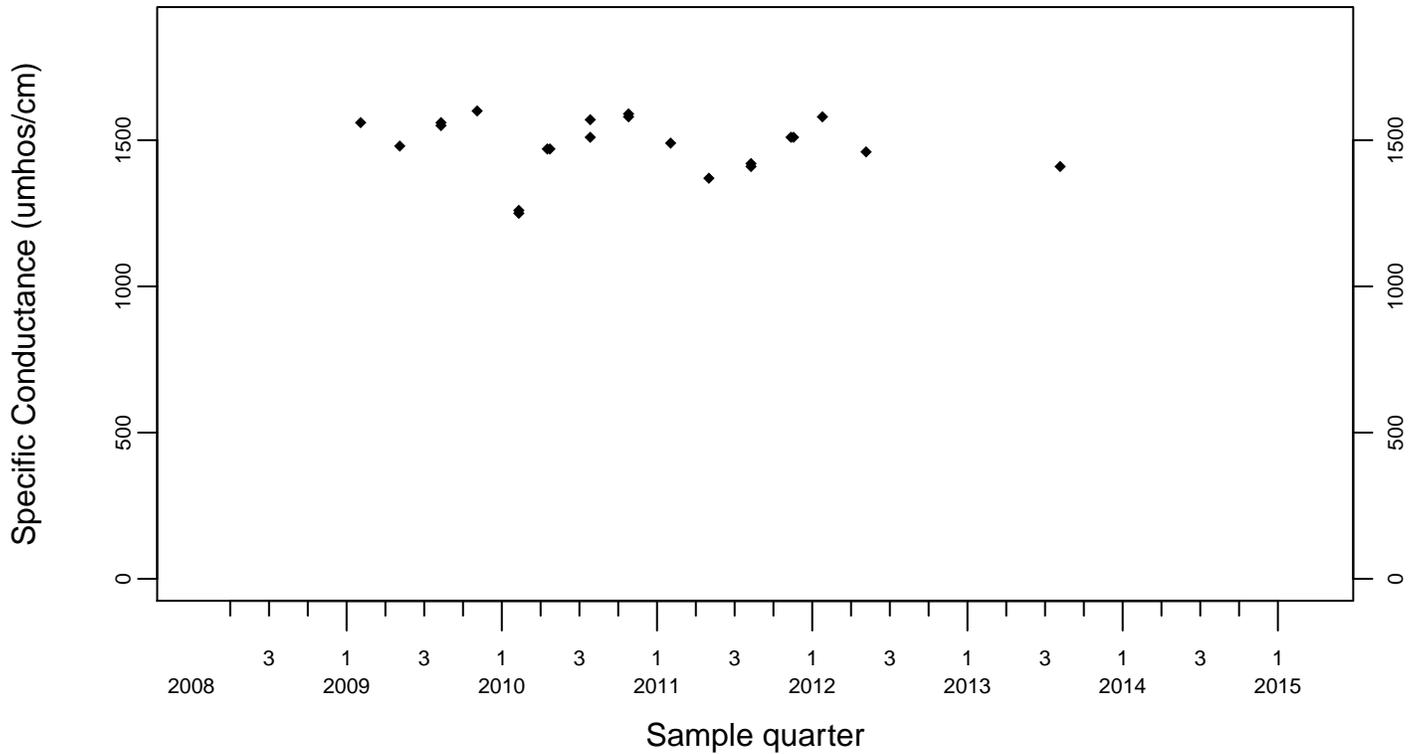
Sewage Ponds Ground Water Specific Conductance (umhos/cm)

Upgradient Monitor Well W-7ES

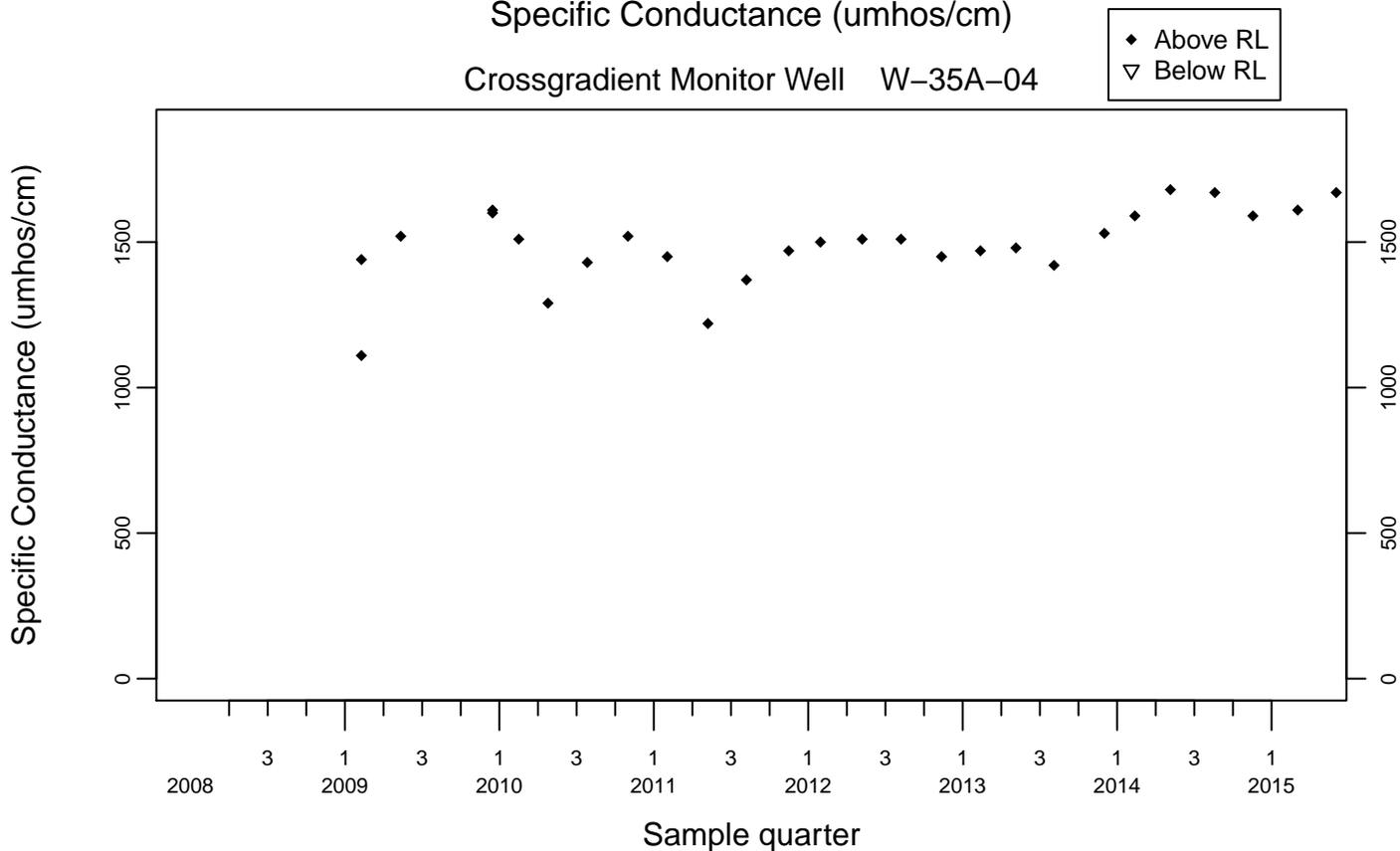
◆ Above RL
▽ Below RL



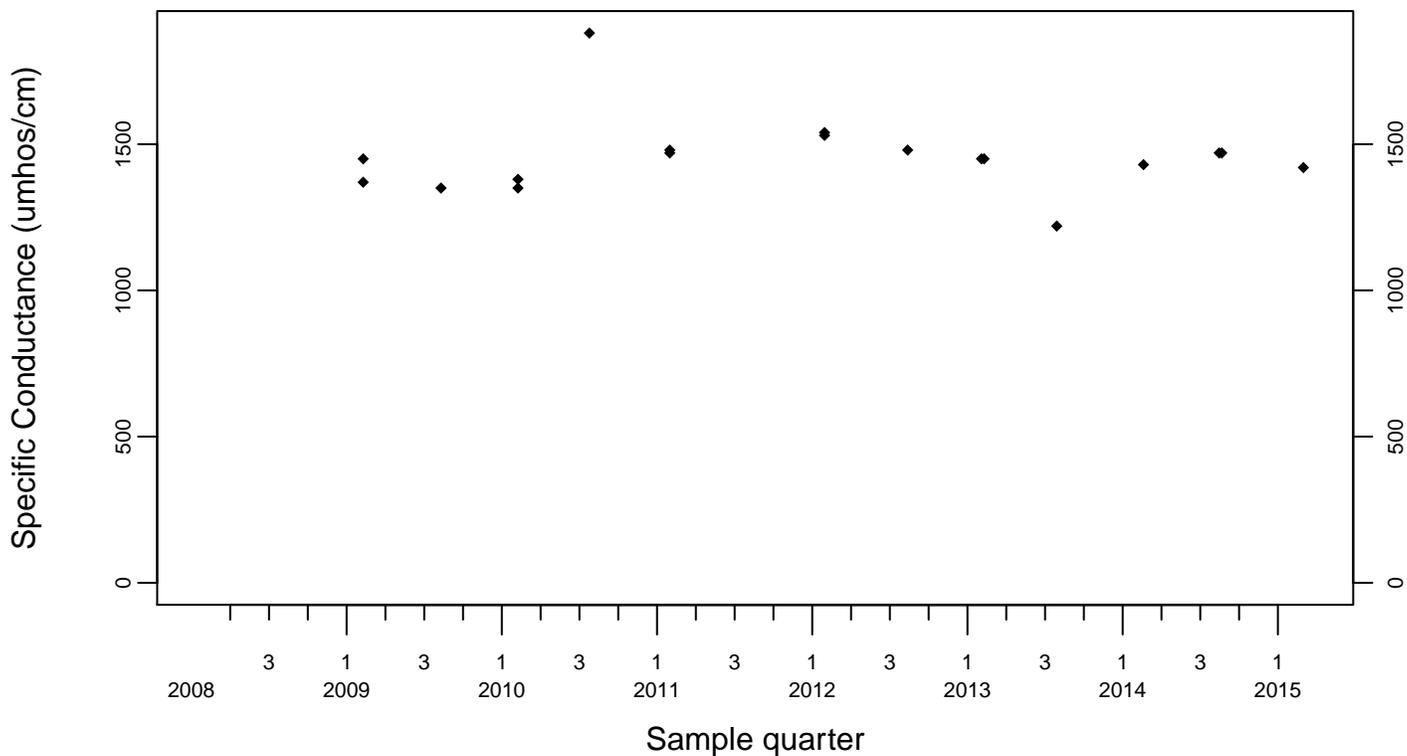
Upgradient Monitor Well W-7PS



Sewage Ponds Ground Water
 Specific Conductance (umhos/cm)
 Crossgradient Monitor Well W-35A-04



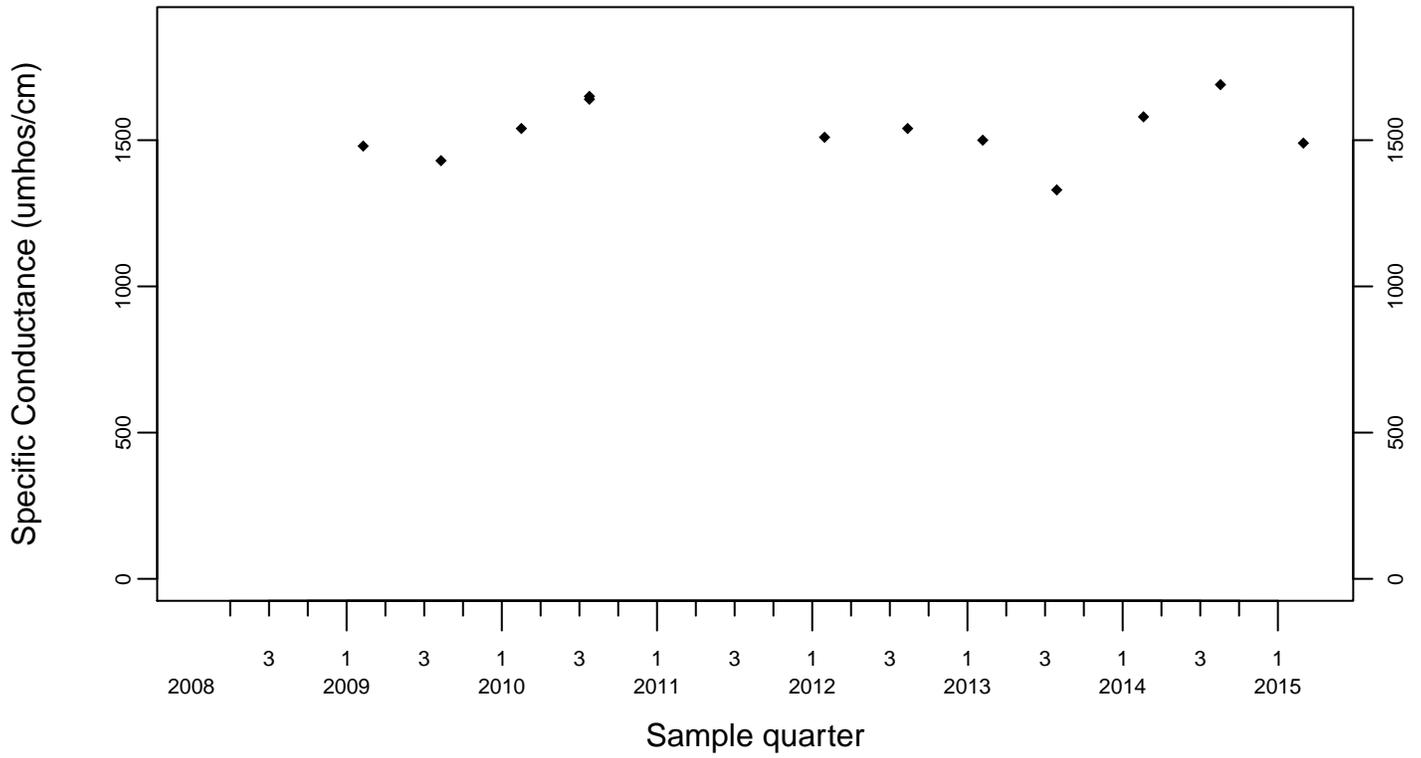
Downgradient Monitor Well W-25N-23



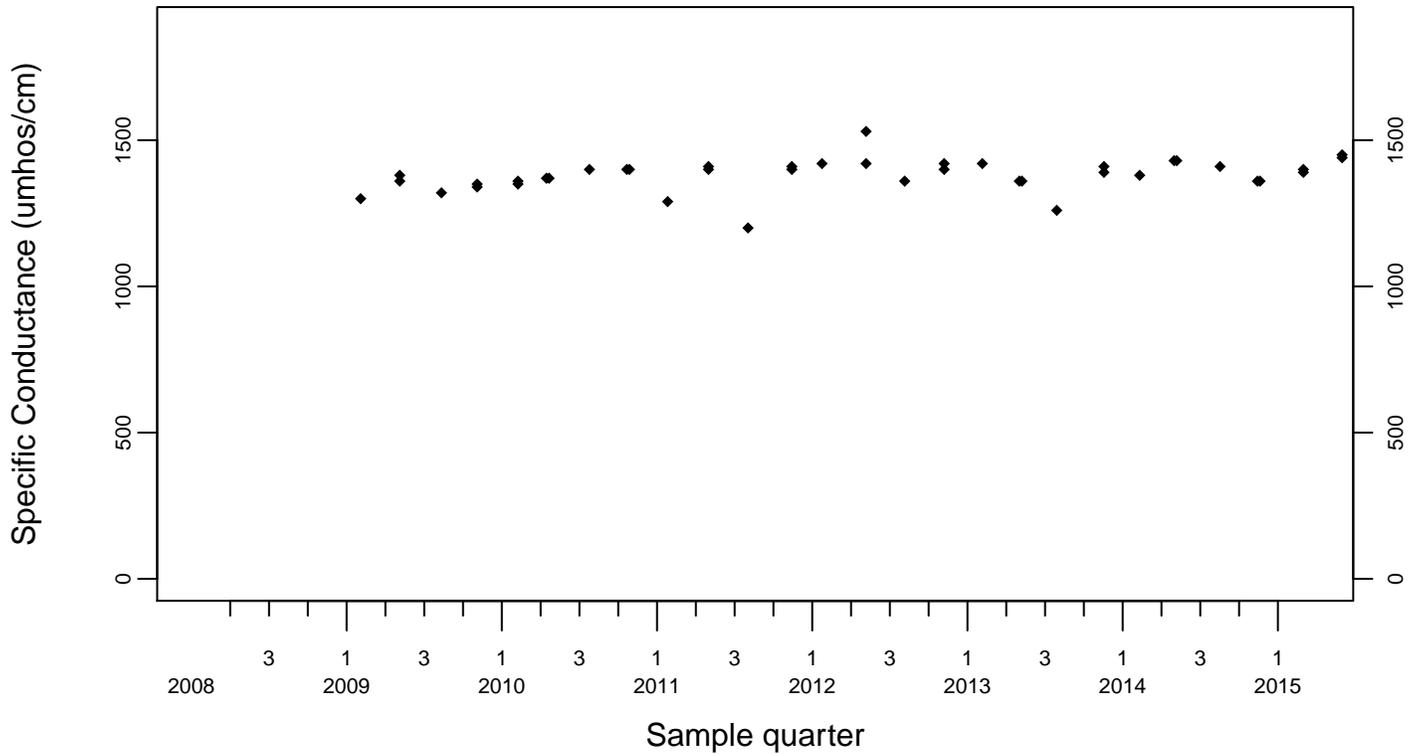
Sewage Ponds Ground Water
 Specific Conductance (umhos/cm)

Downgradient Monitor Well W-25N-22

◆ Above RL
 ▼ Below RL

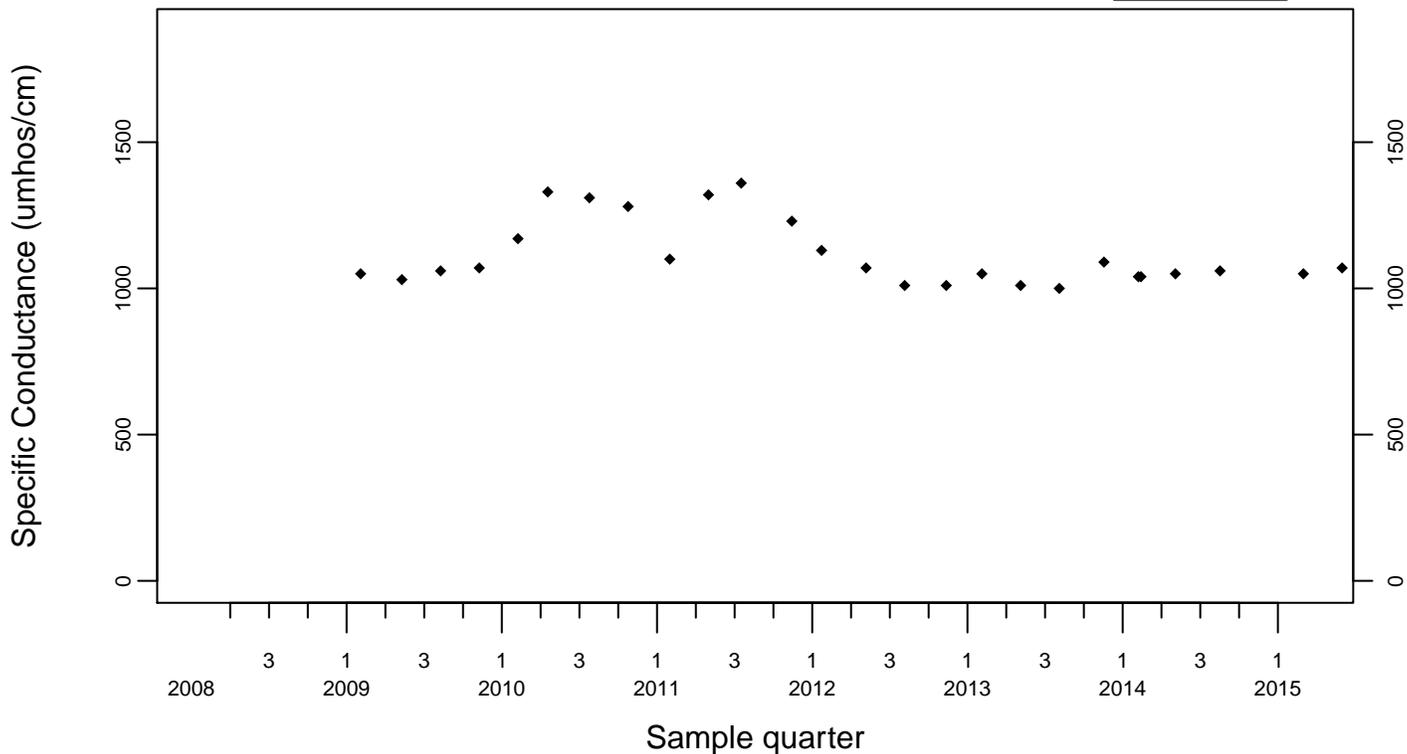


Downgradient Monitor Well W-26R-01

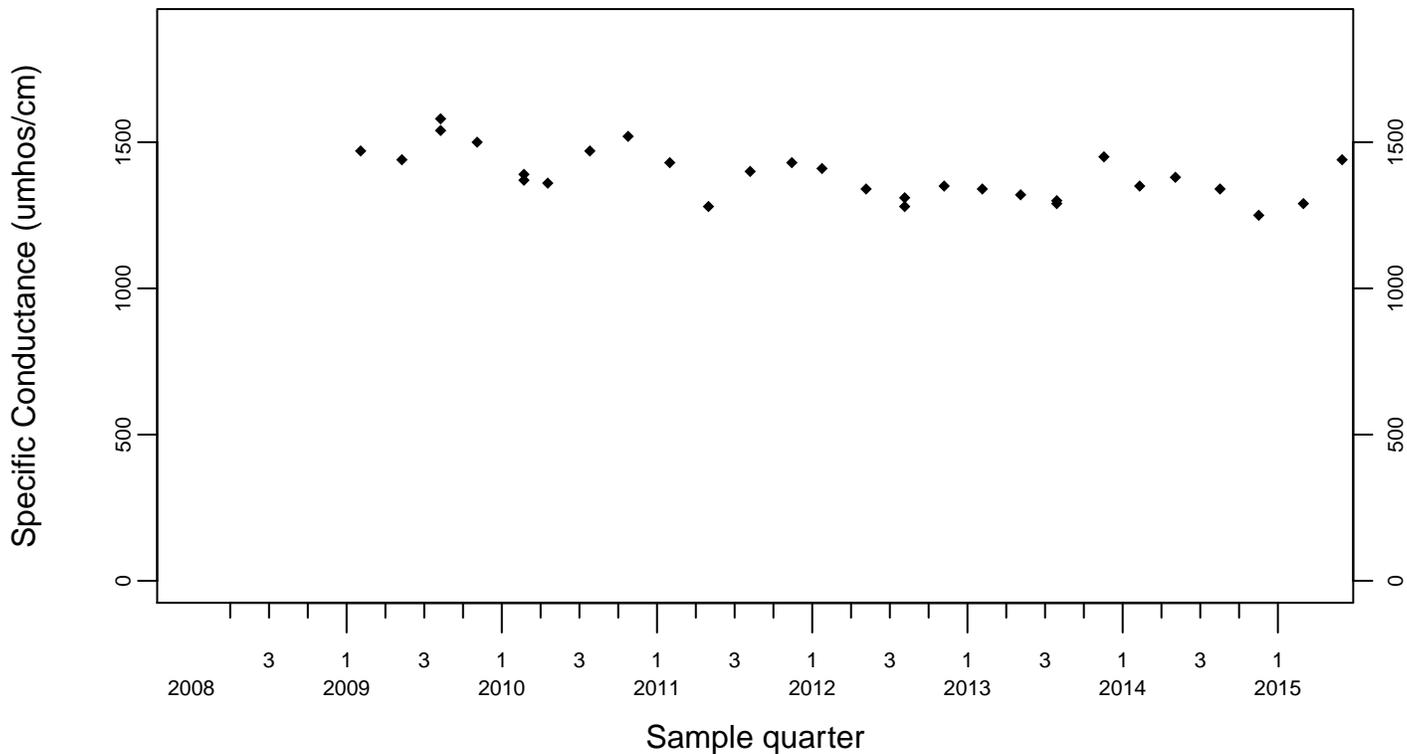


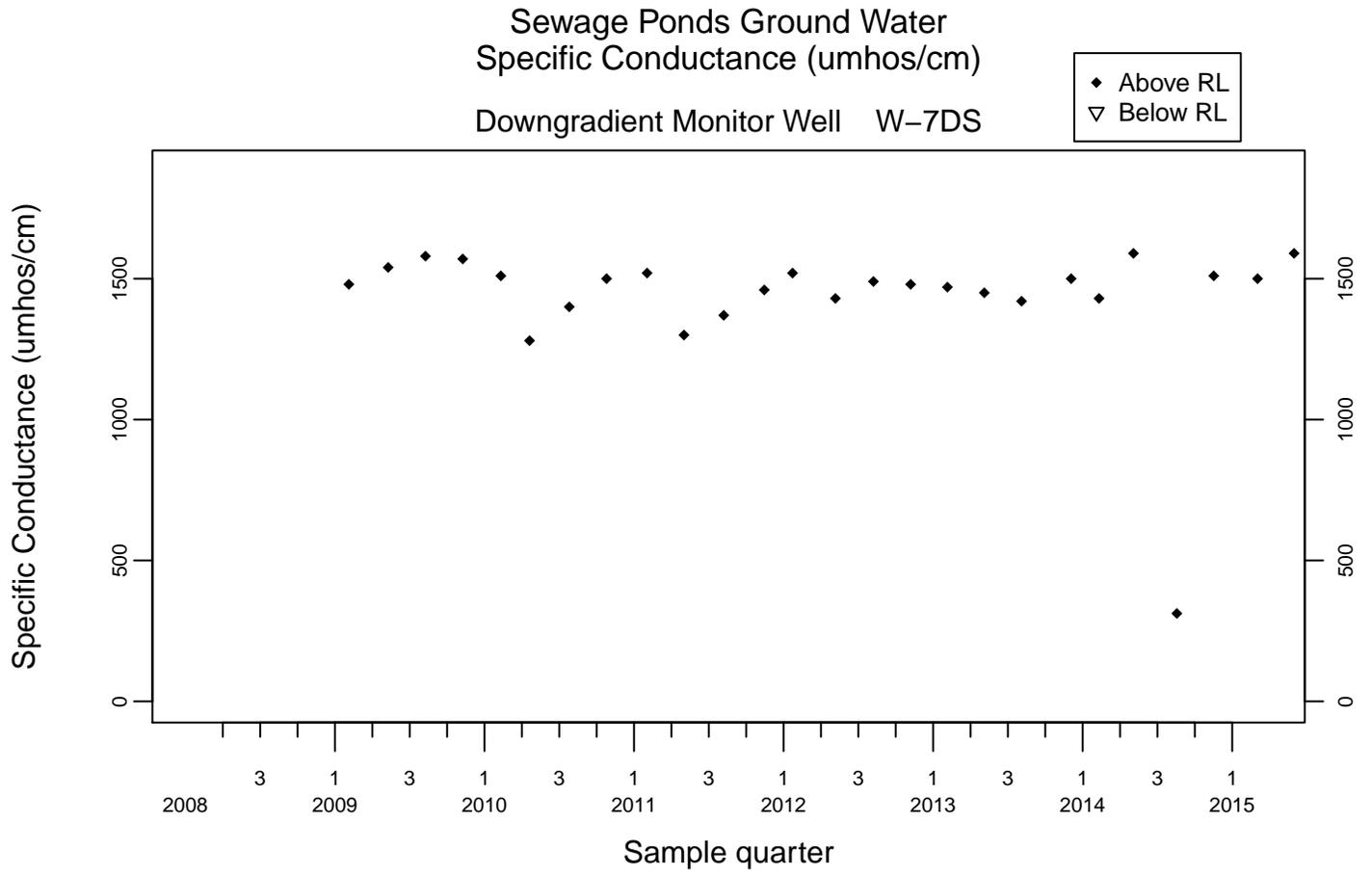
Sewage Ponds Ground Water
 Specific Conductance (umhos/cm)
 Downgradient Monitor Well W-26R-05

◆ Above RL
 ▼ Below RL



Downgradient Monitor Well W-26R-11

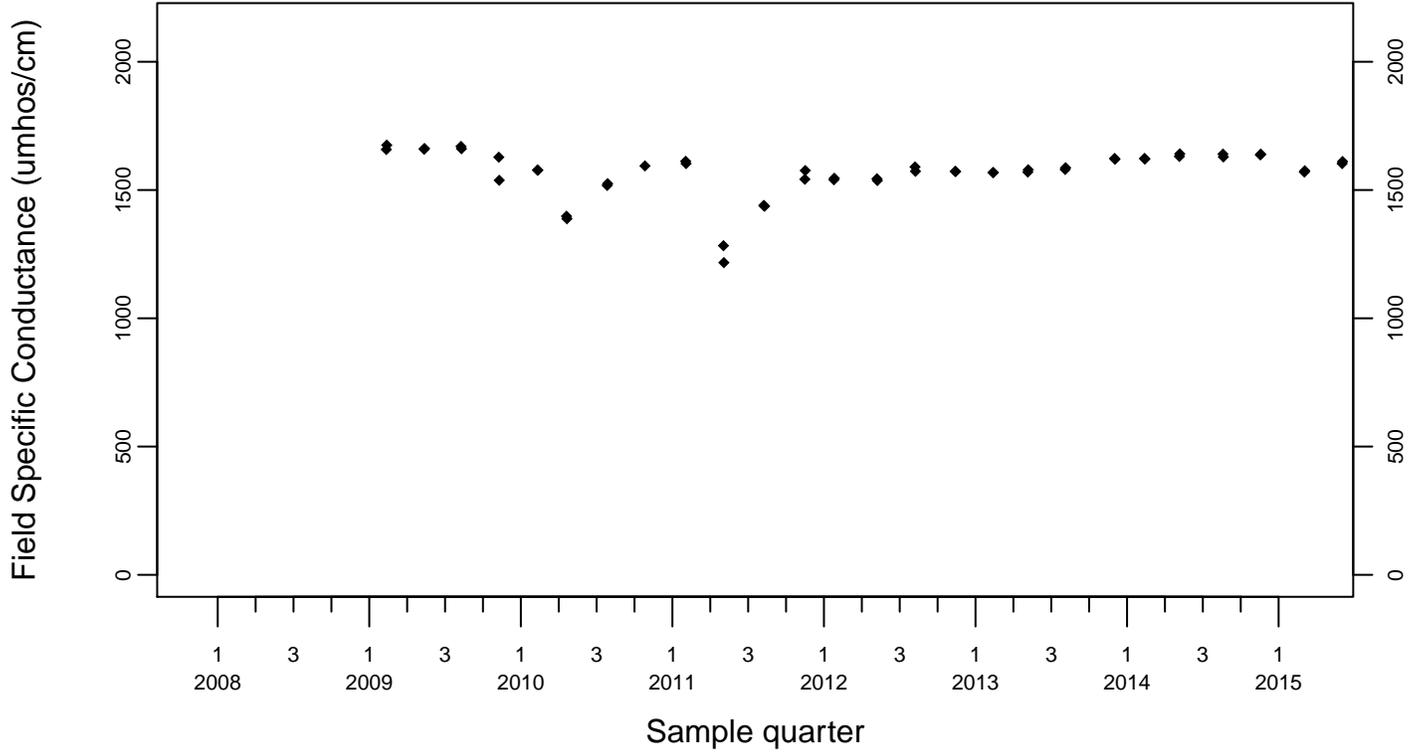




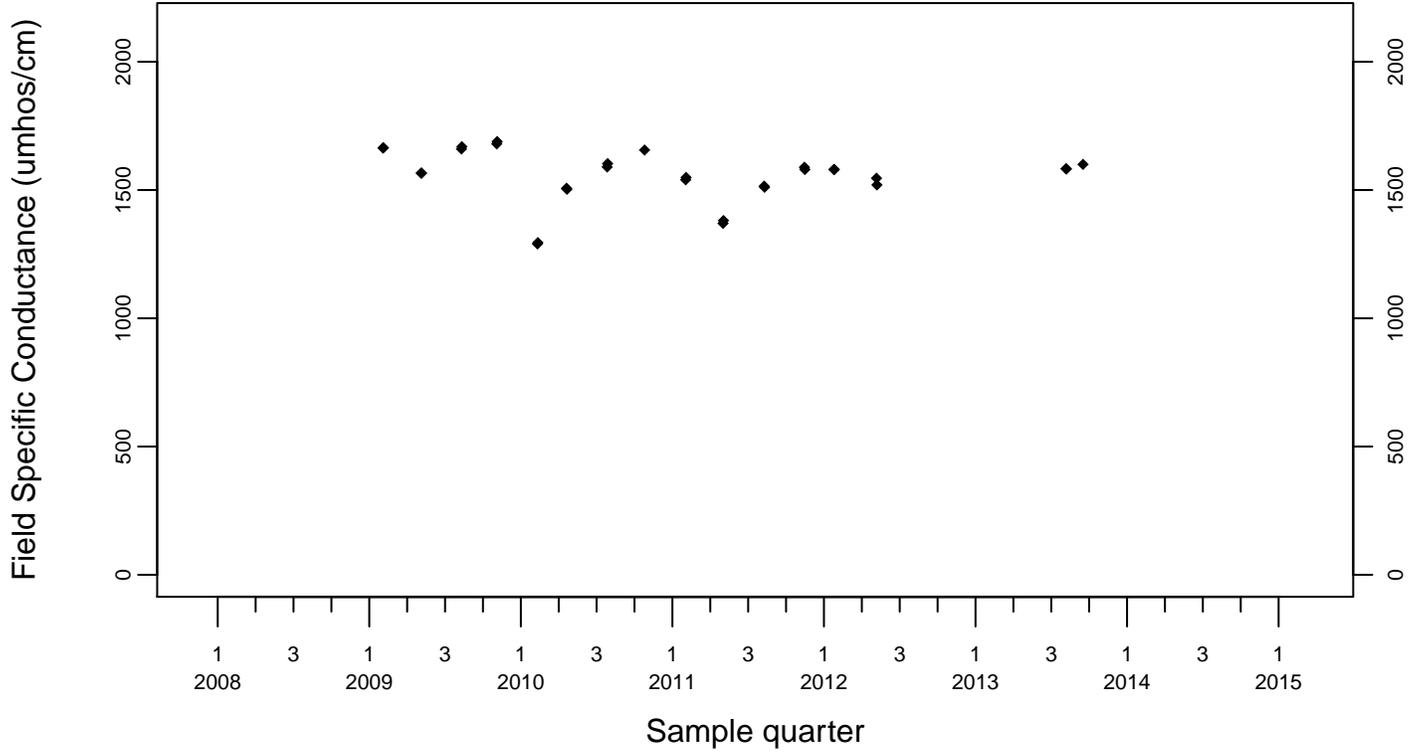
Sewage Ponds Ground Water
 Field Specific Conductance (umhos/cm)

Upgradient Monitor Well W-7ES

◆ Above RL
 ▼ Below RL



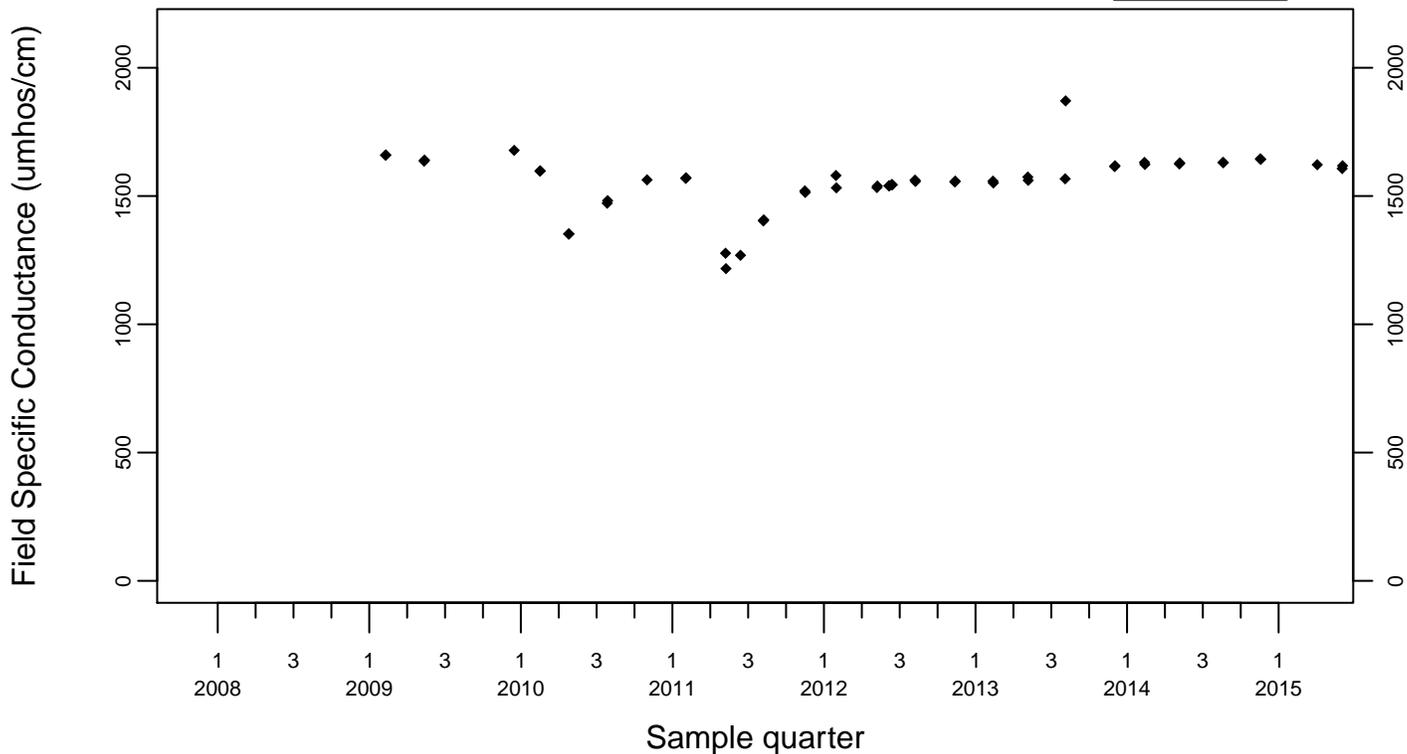
Upgradient Monitor Well W-7PS



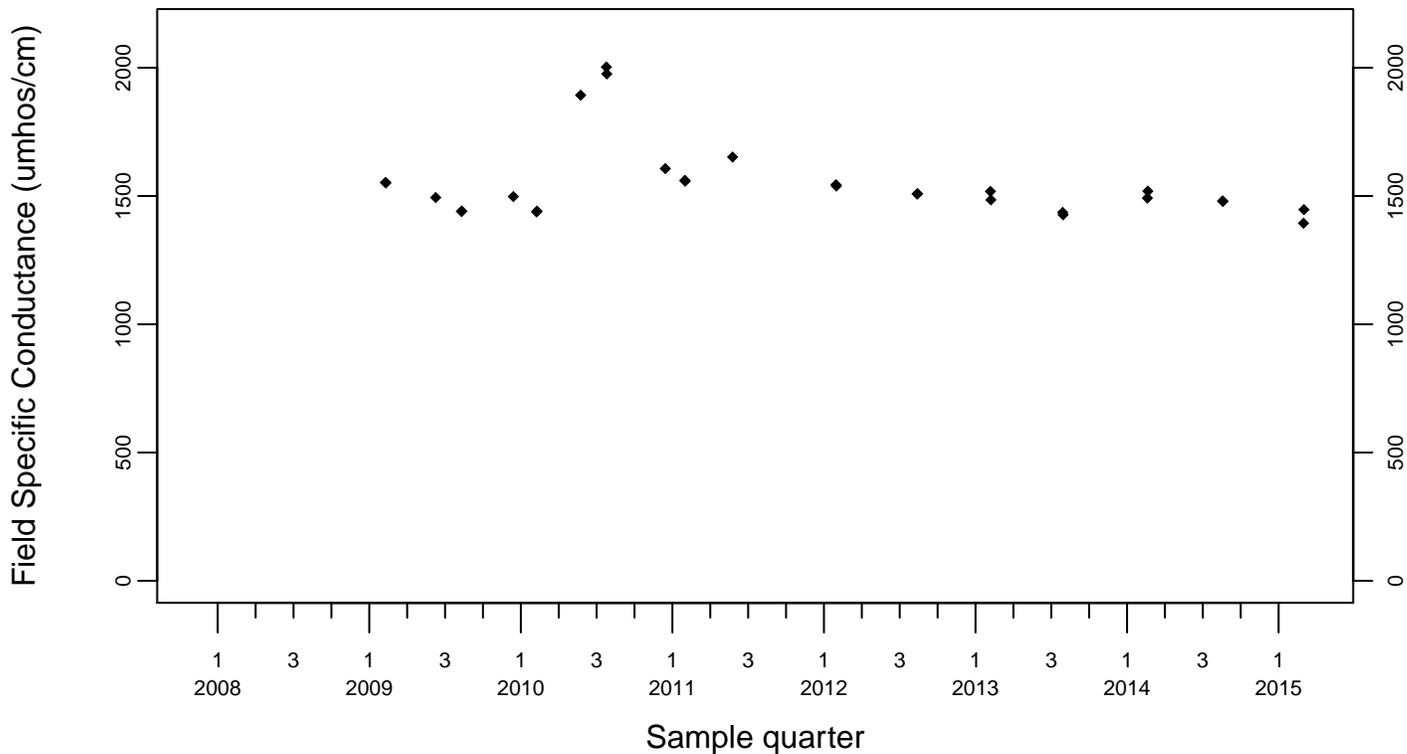
Sewage Ponds Ground Water
 Field Specific Conductance (umhos/cm)

Crossgradient Monitor Well W-35A-04

◆ Above RL
 ▼ Below RL



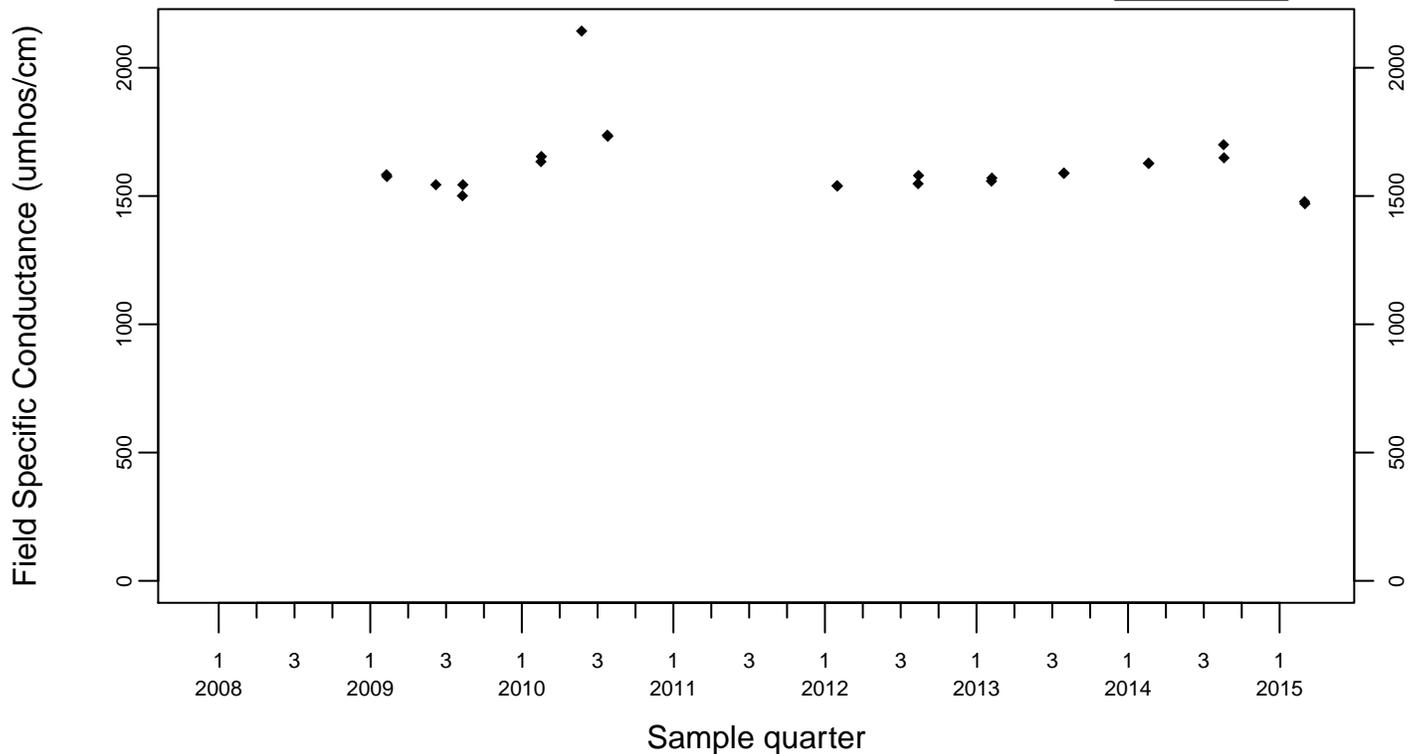
Downgradient Monitor Well W-25N-23



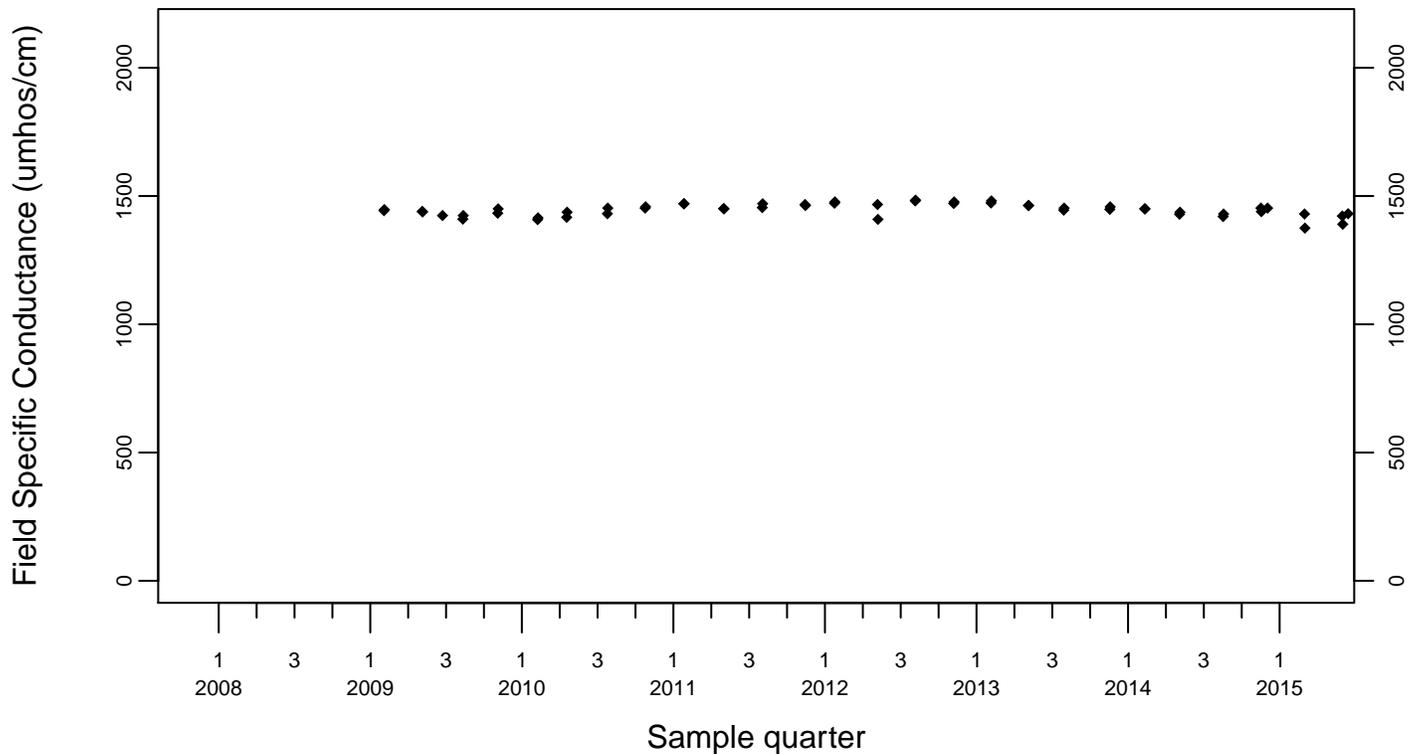
Sewage Ponds Ground Water
 Field Specific Conductance (umhos/cm)

Downgradient Monitor Well W-25N-22

◆ Above RL
 ▼ Below RL



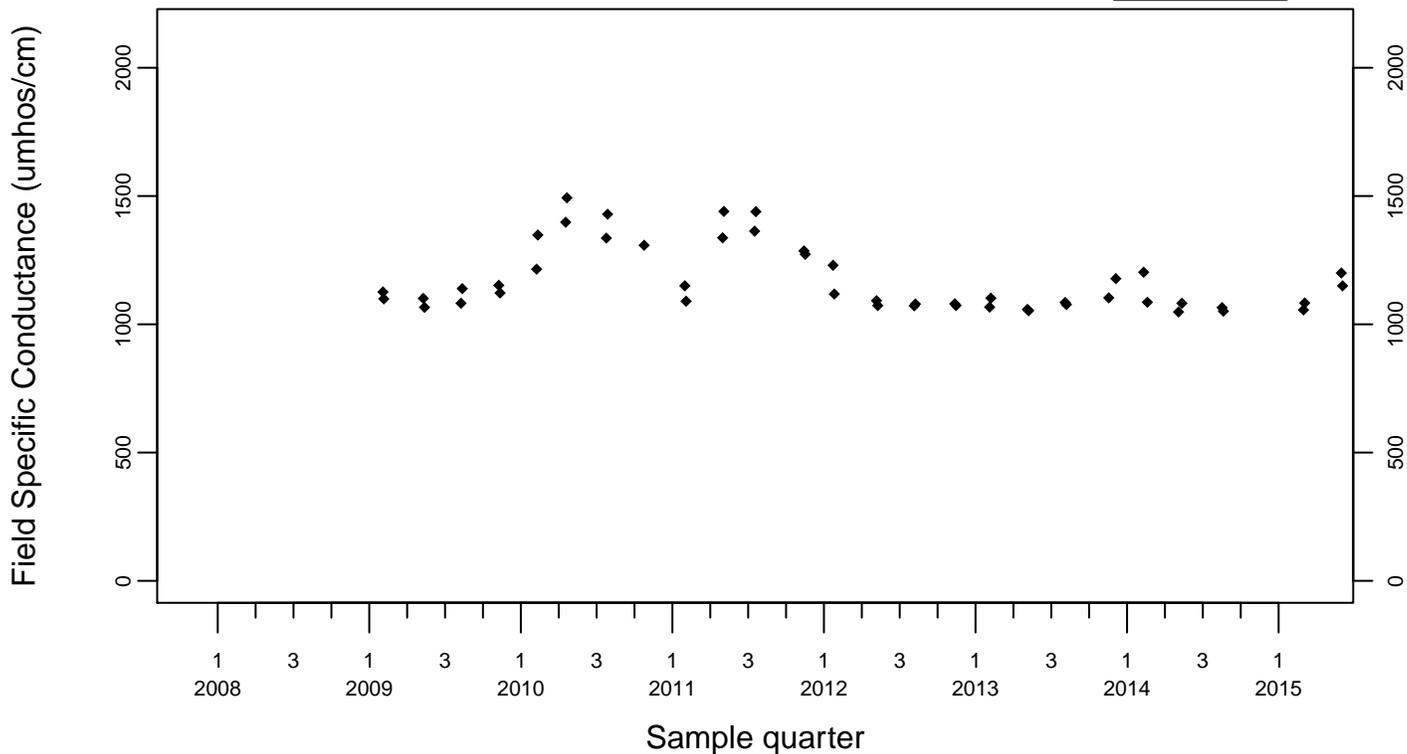
Downgradient Monitor Well W-26R-01



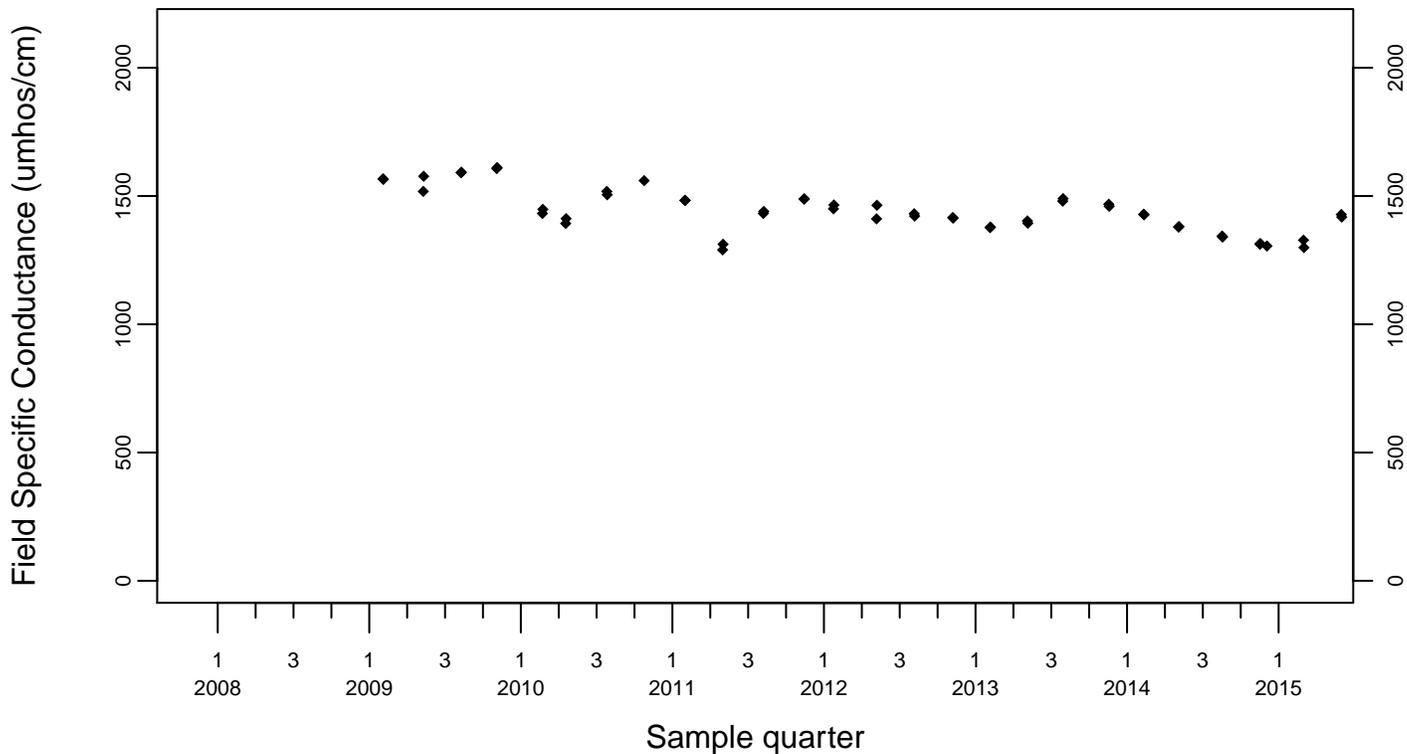
Sewage Ponds Ground Water
 Field Specific Conductance (umhos/cm)

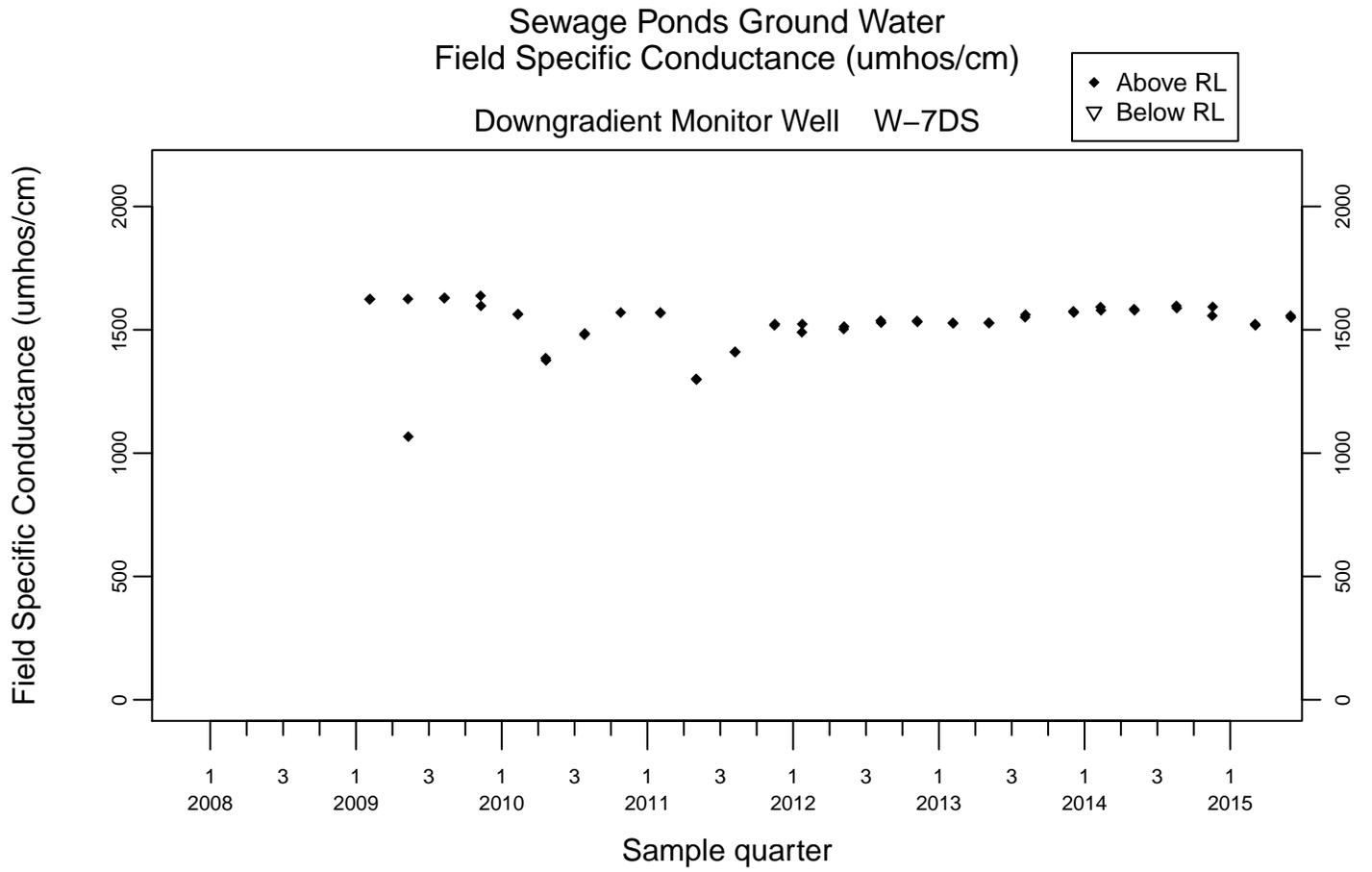
Downgradient Monitor Well W-26R-05

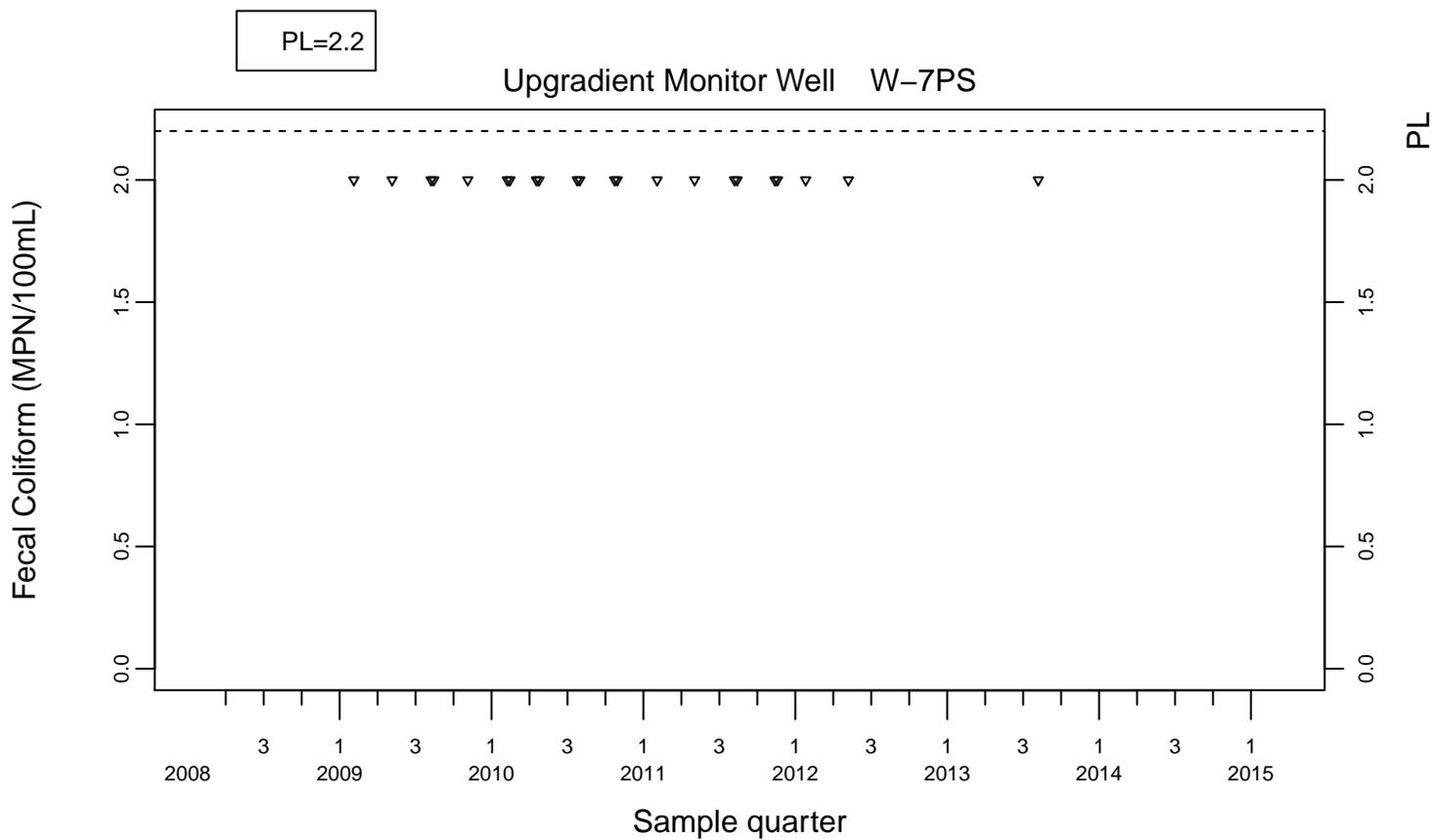
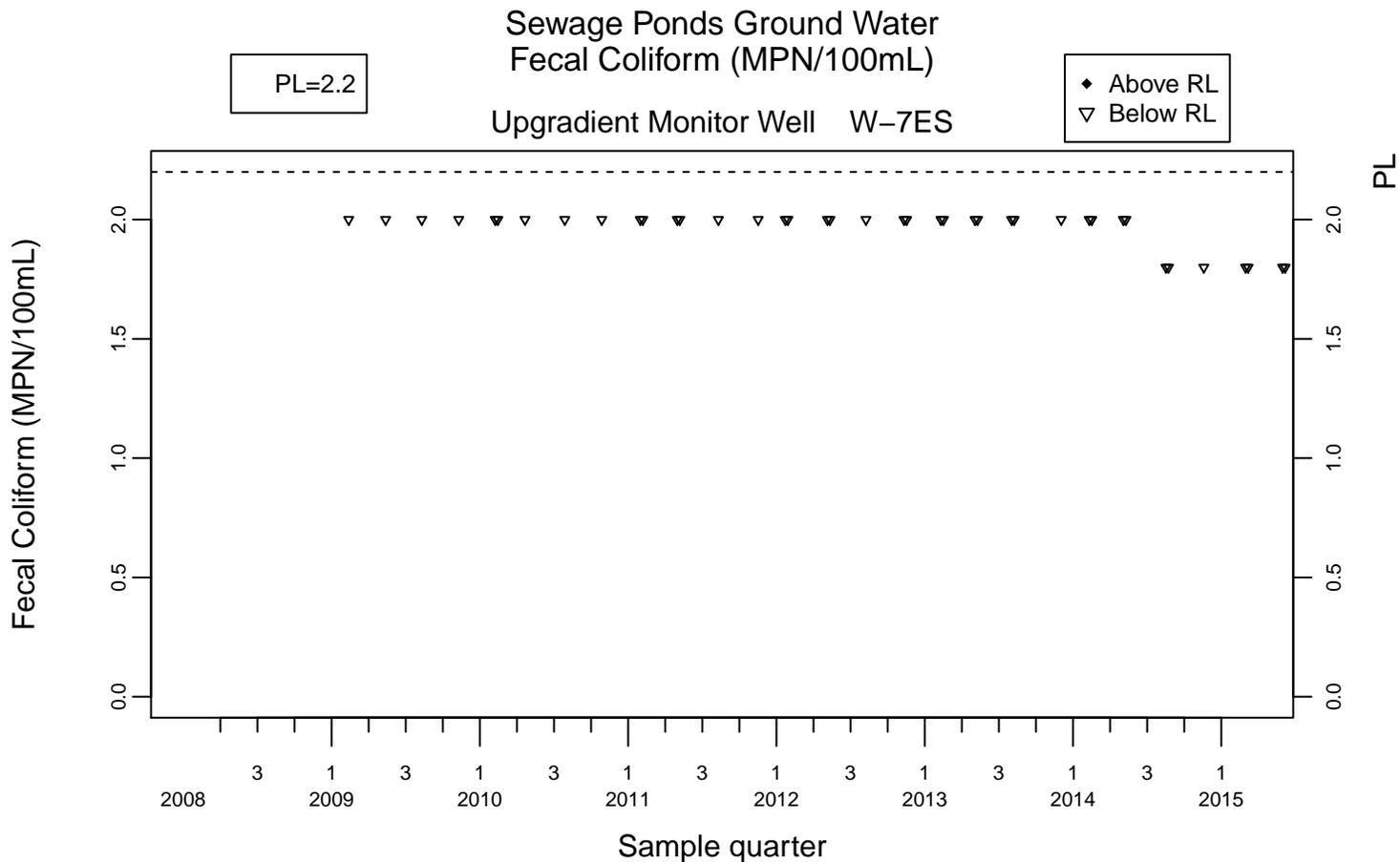
◆ Above RL
 ▼ Below RL

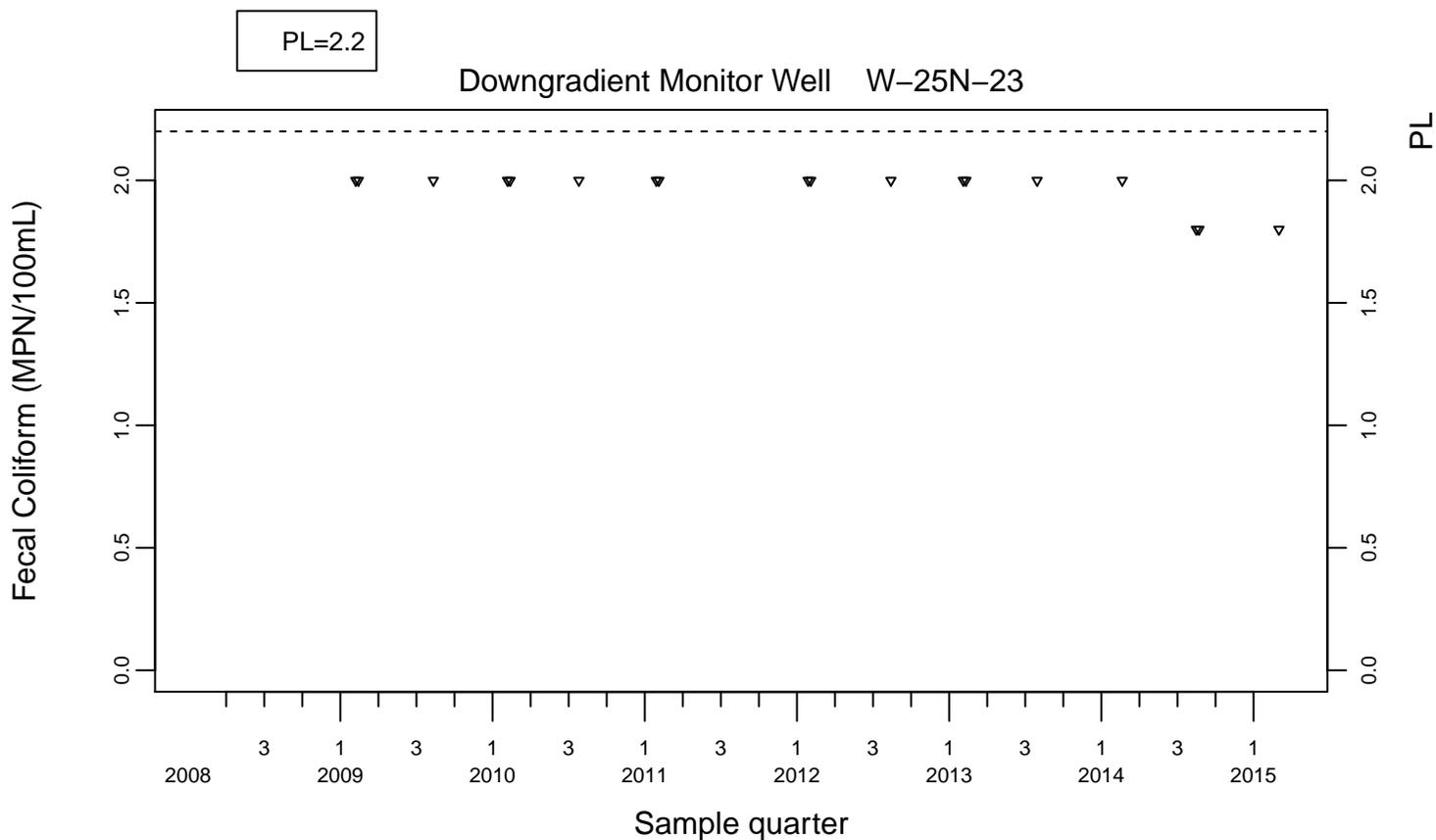
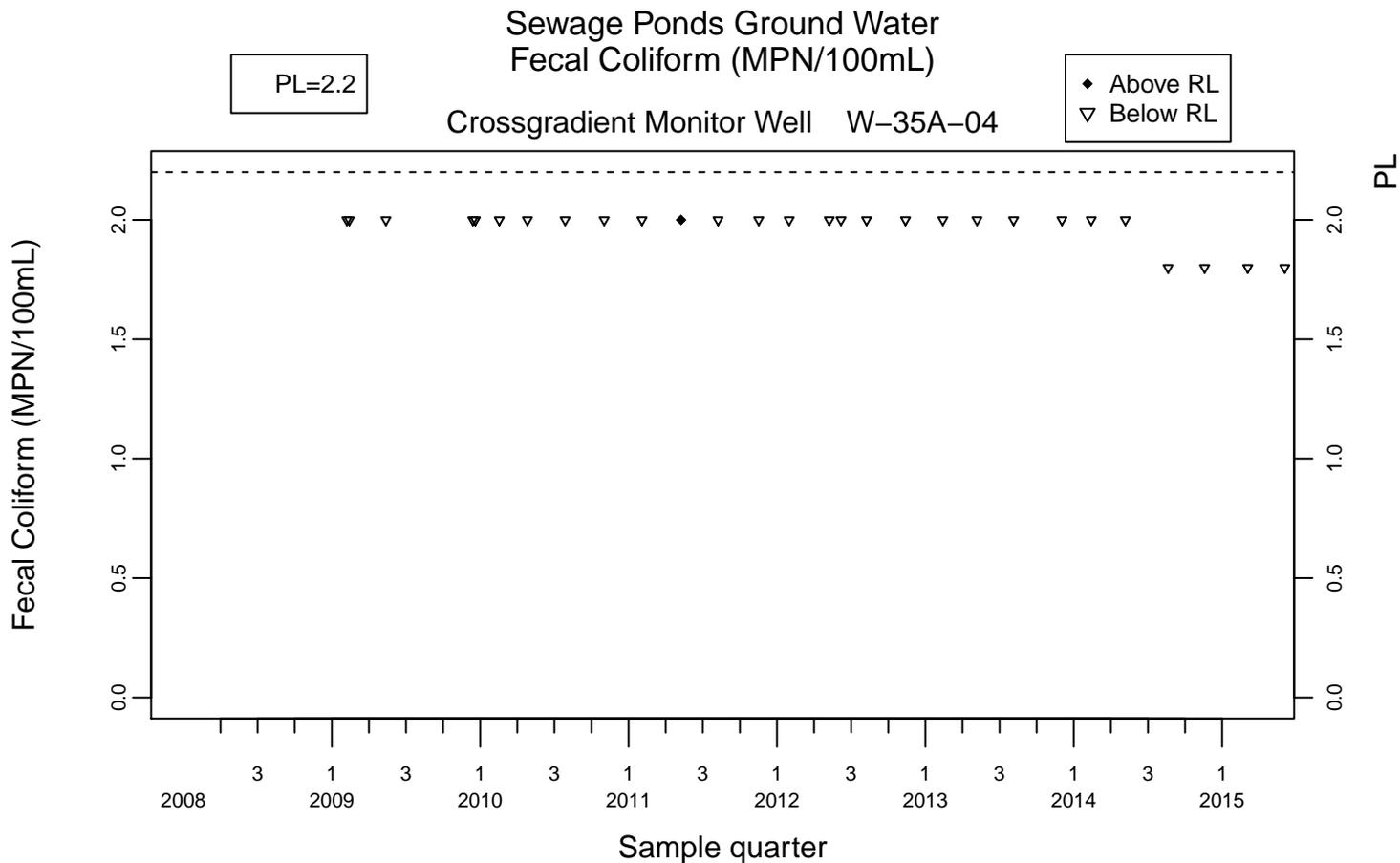


Downgradient Monitor Well W-26R-11







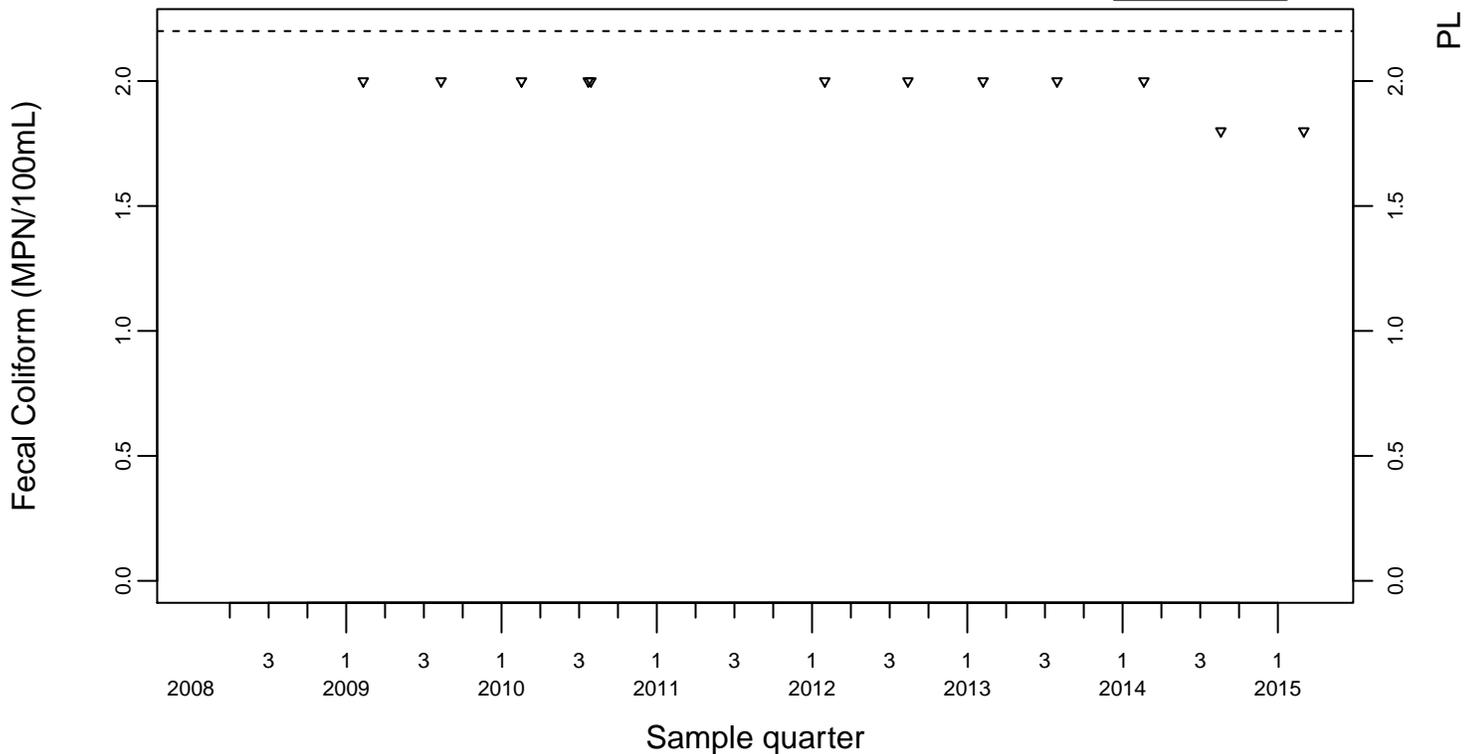


Sewage Ponds Ground Water
 Fecal Coliform (MPN/100mL)

Downgradient Monitor Well W-25N-22

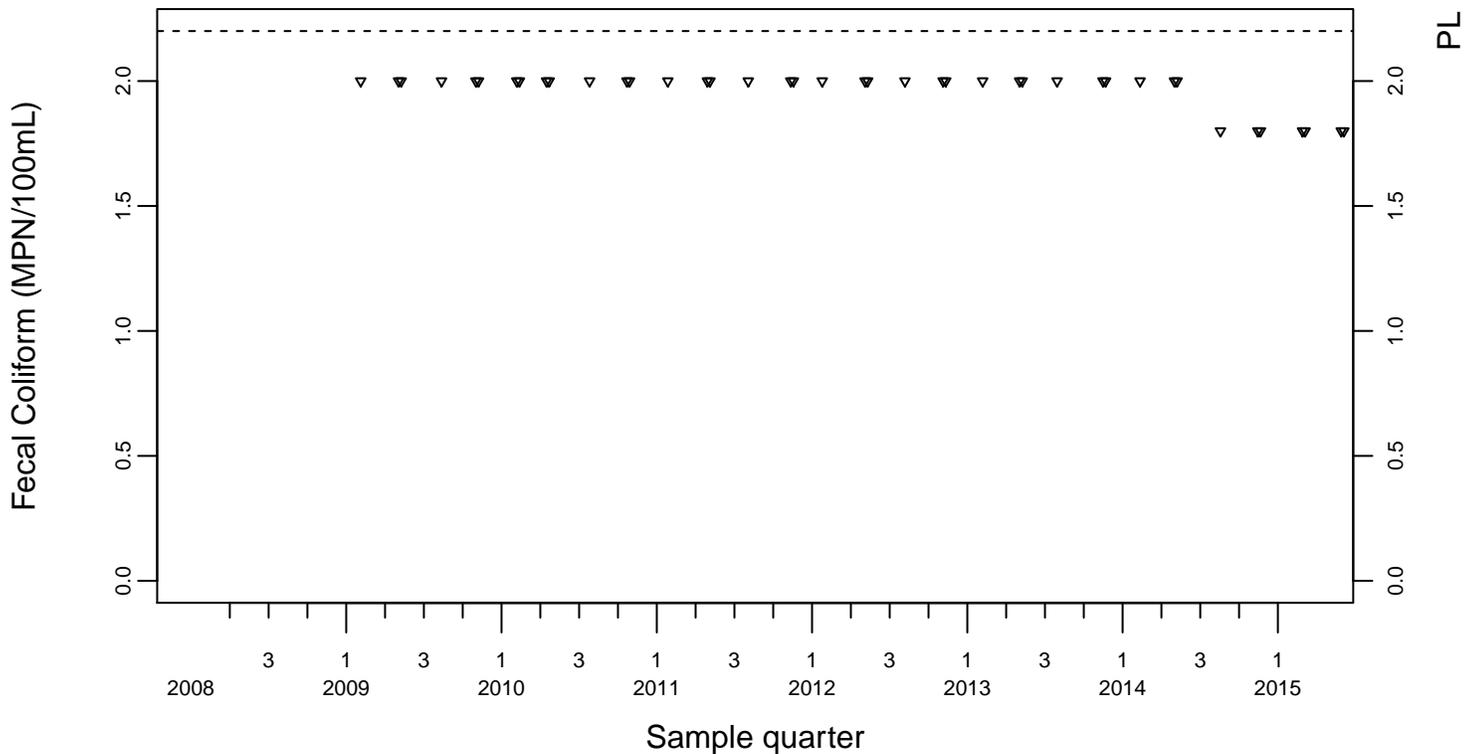
PL=2.2

◆ Above RL
 ▼ Below RL



Downgradient Monitor Well W-26R-01

PL=2.2

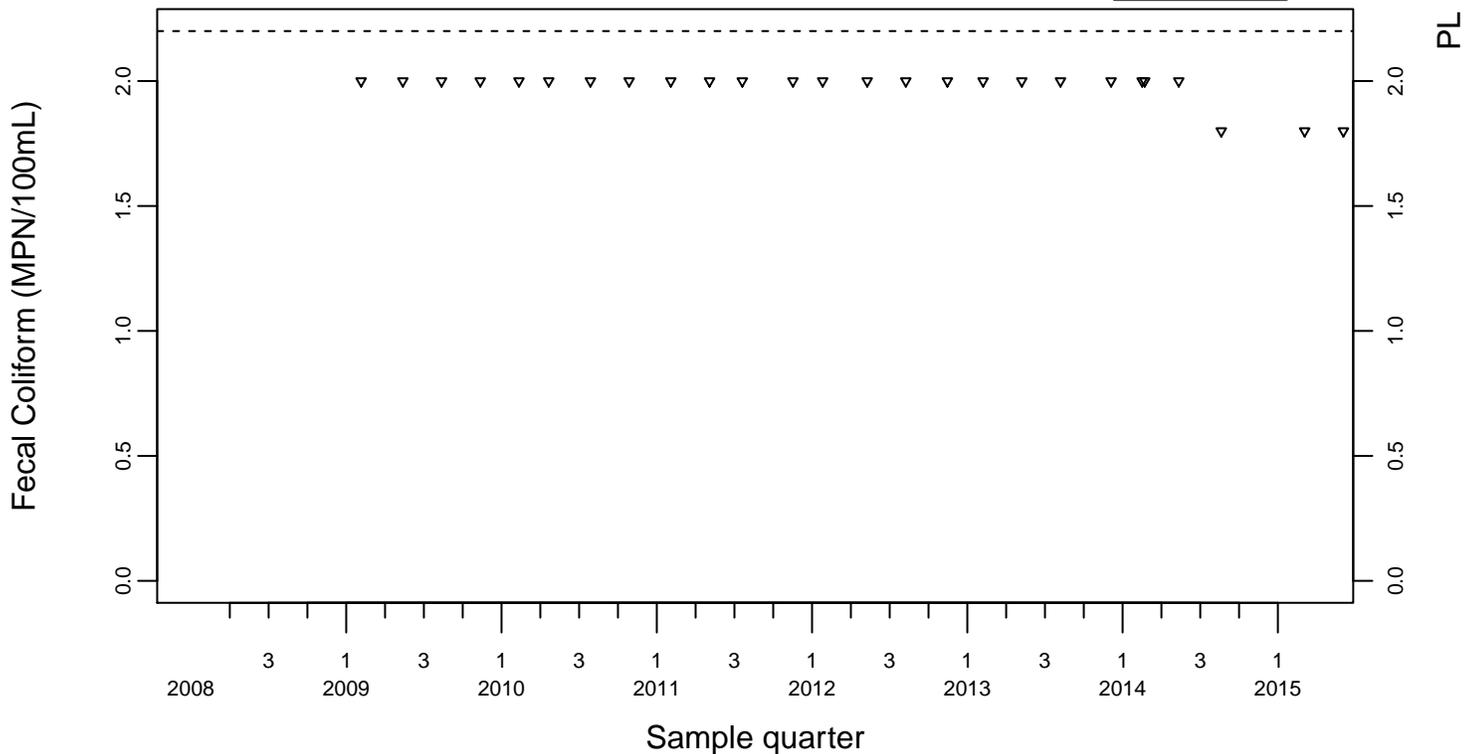


Sewage Ponds Ground Water
 Fecal Coliform (MPN/100mL)

Downgradient Monitor Well W-26R-05

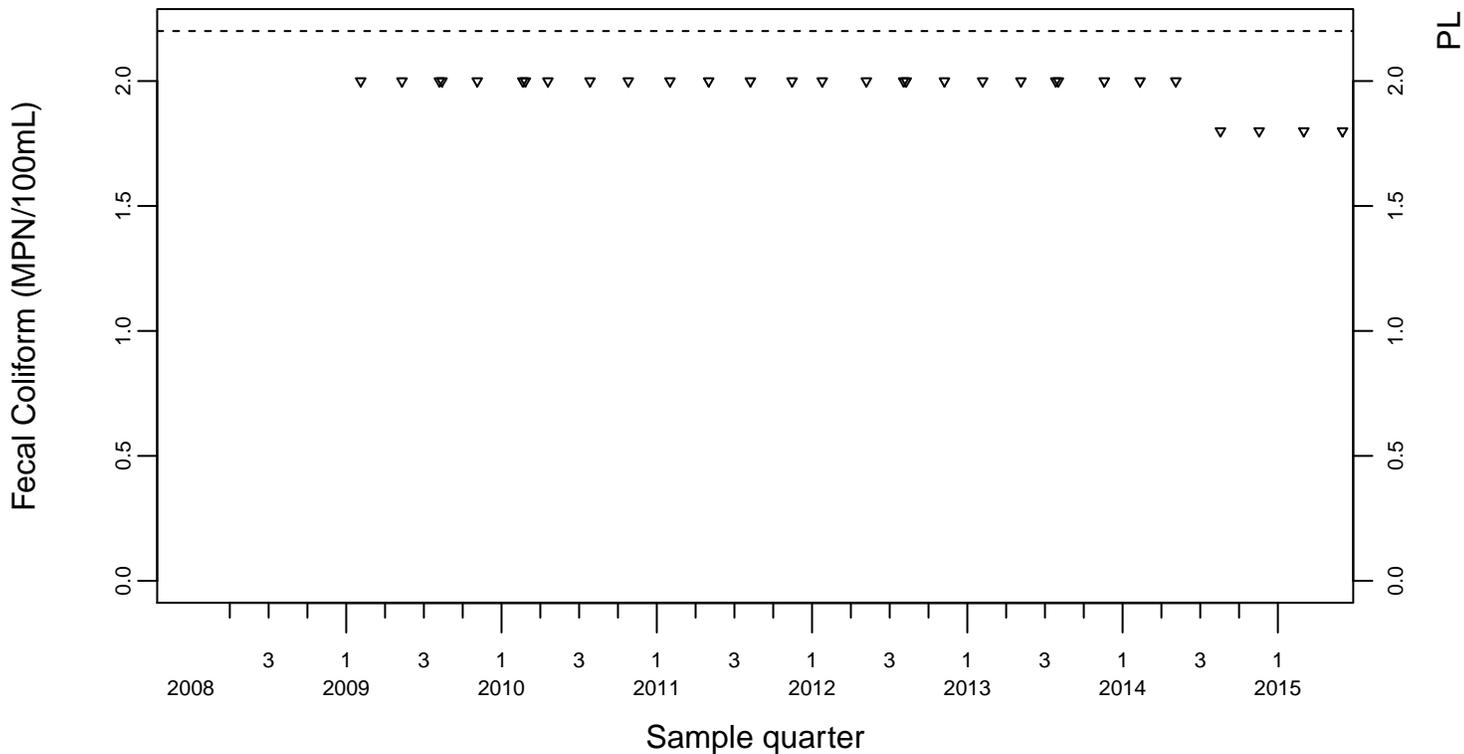
PL=2.2

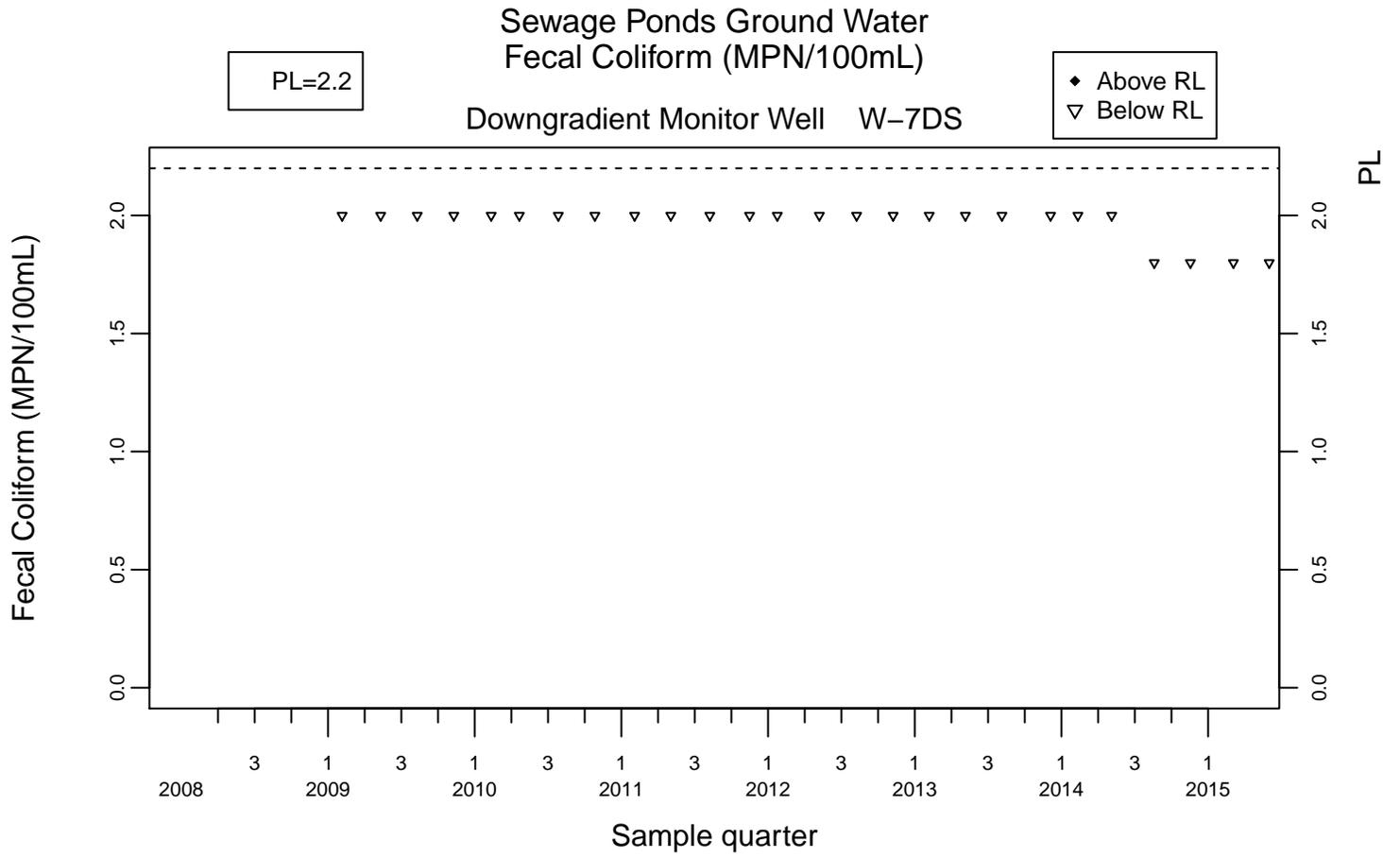
◆ Above RL
 ▼ Below RL



Downgradient Monitor Well W-26R-11

PL=2.2

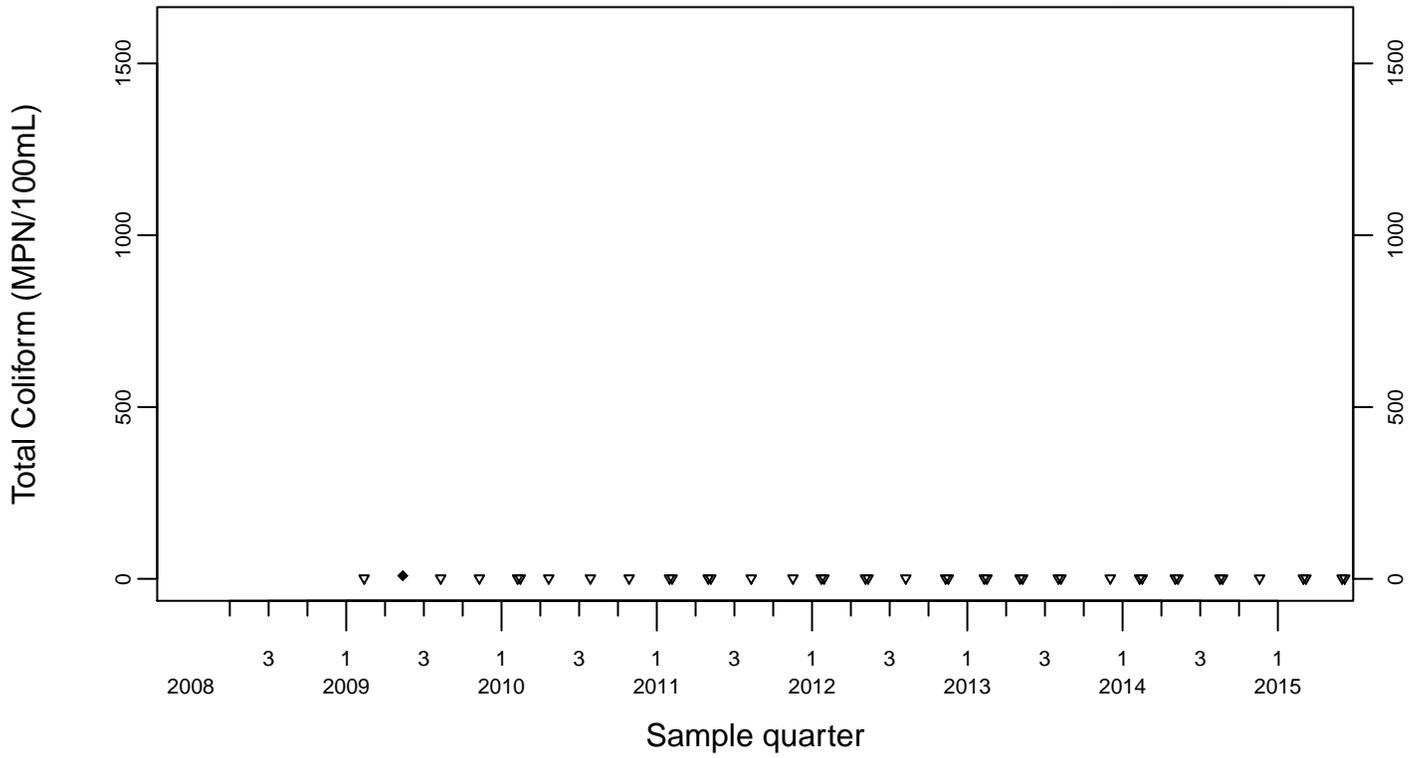




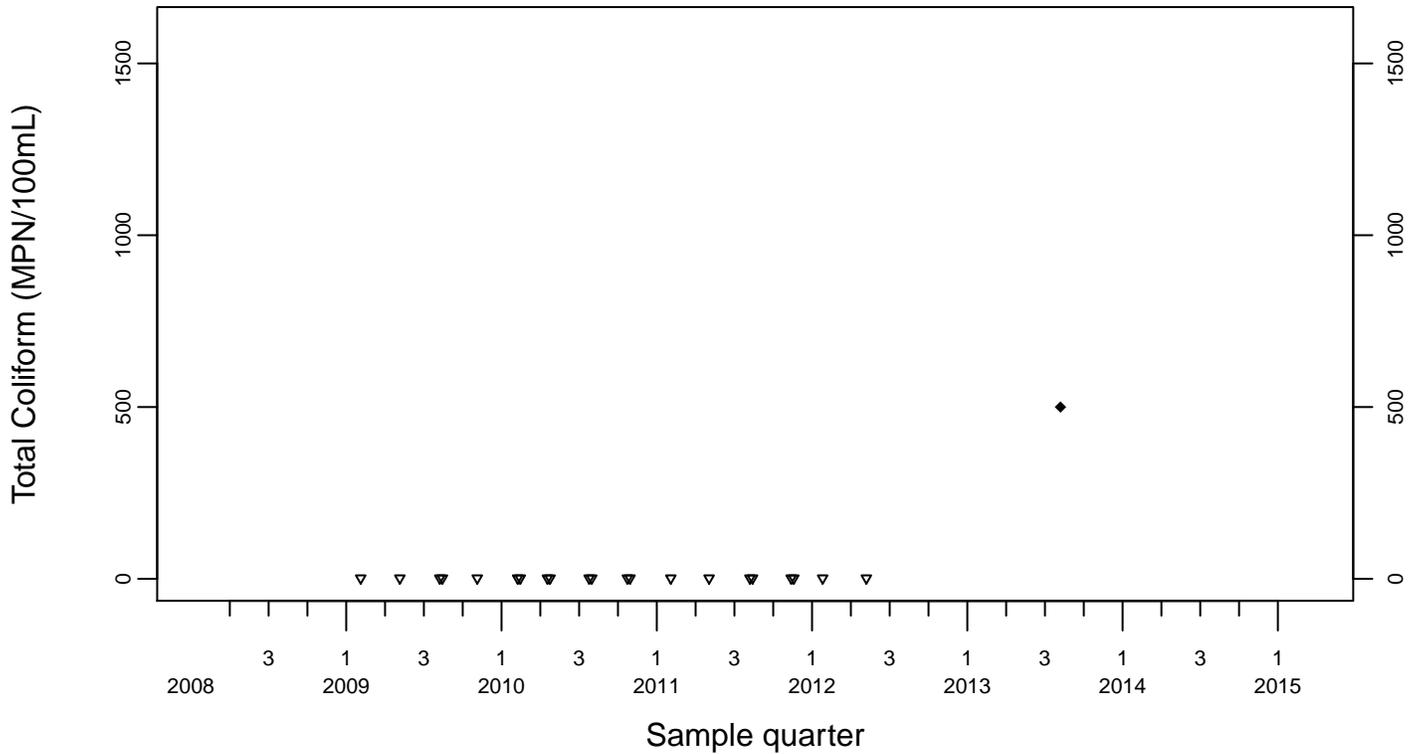
Sewage Ponds Ground Water Total Coliform (MPN/100mL)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL



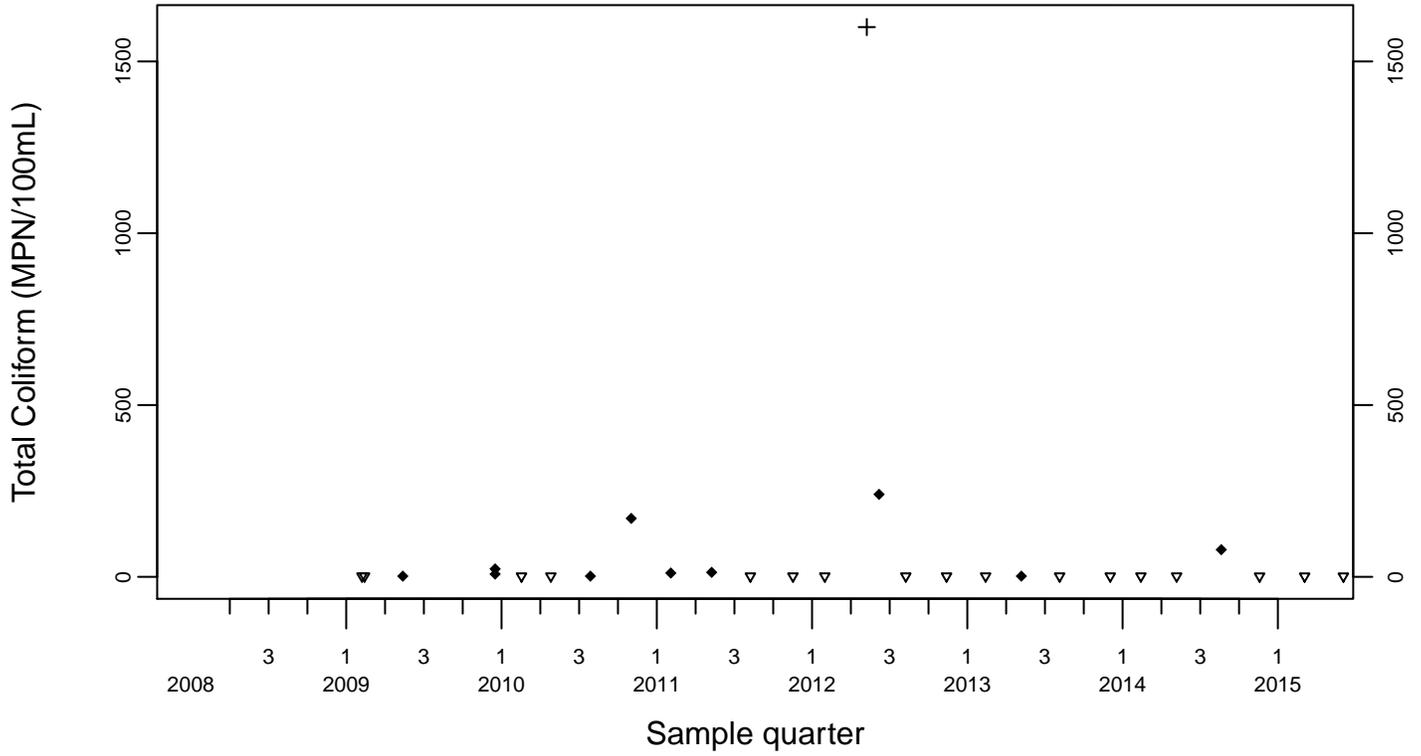
Upgradient Monitor Well W-7PS



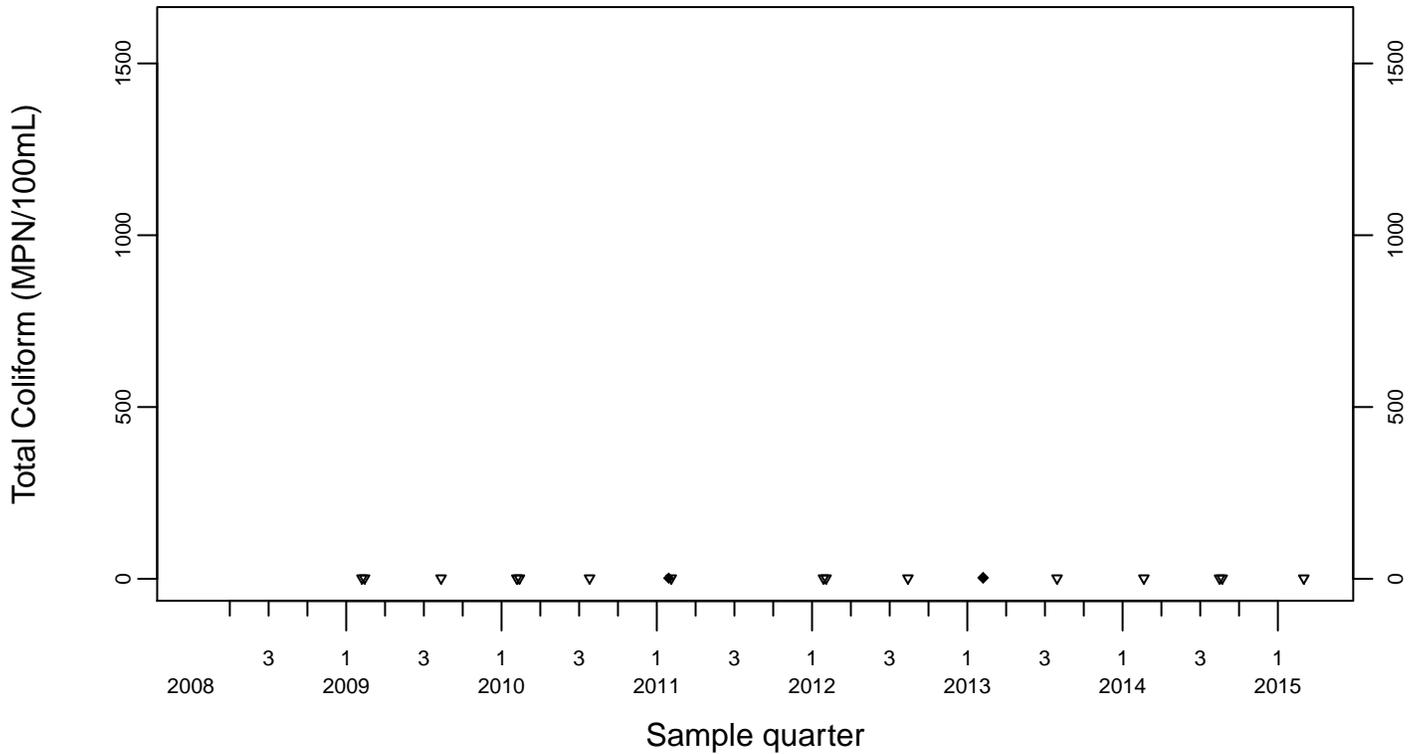
Sewage Ponds Ground Water
 Total Coliform (MPN/100mL)

Crossgradient Monitor Well W-35A-04

- ◆ Above RL
- ▽ Below RL
- + Estimated



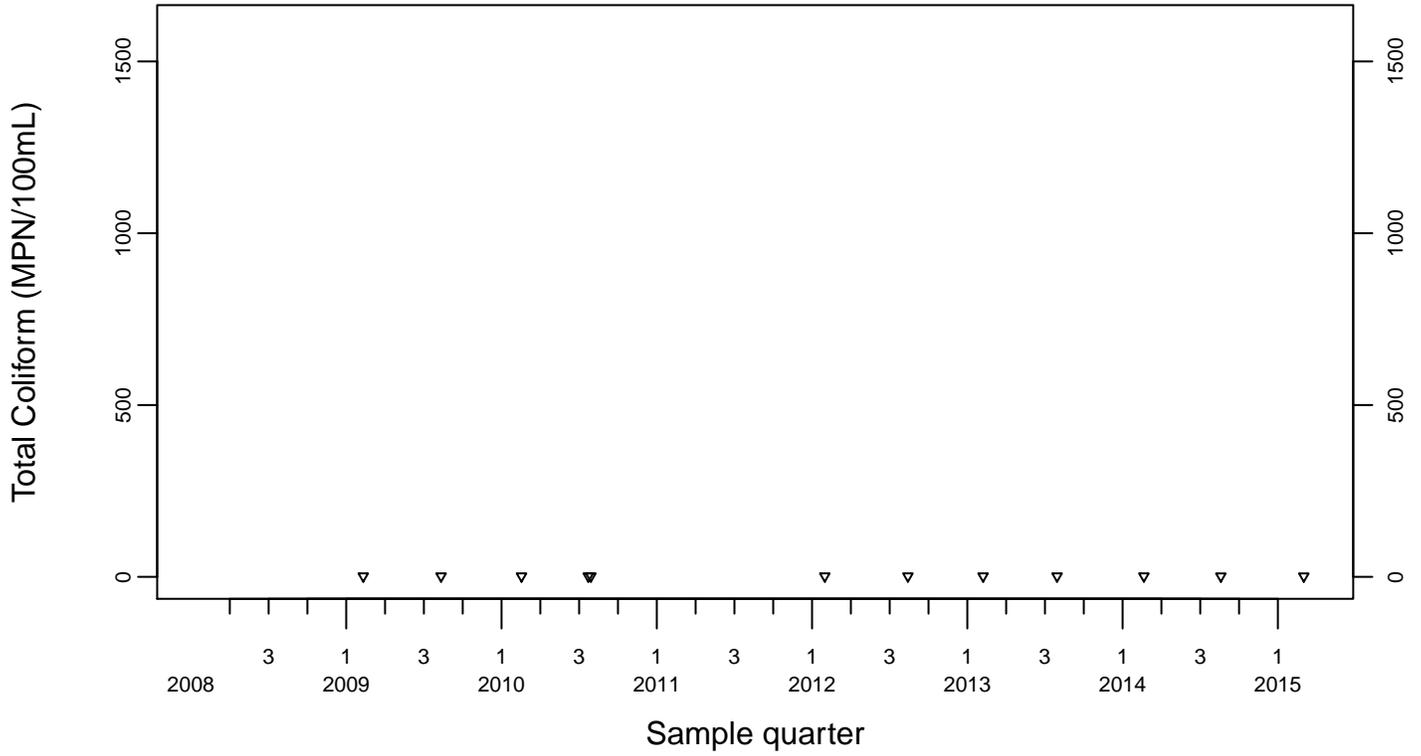
Downgradient Monitor Well W-25N-23



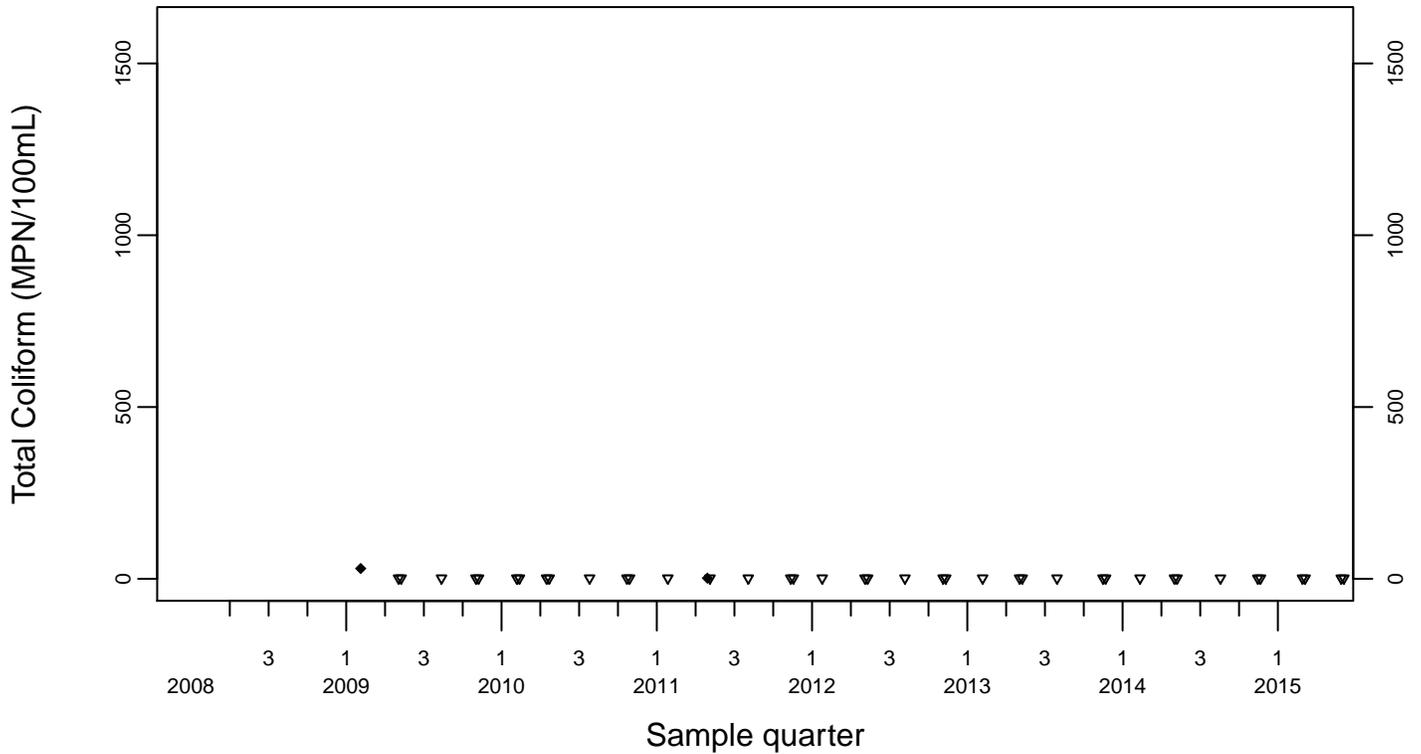
Sewage Ponds Ground Water Total Coliform (MPN/100mL)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



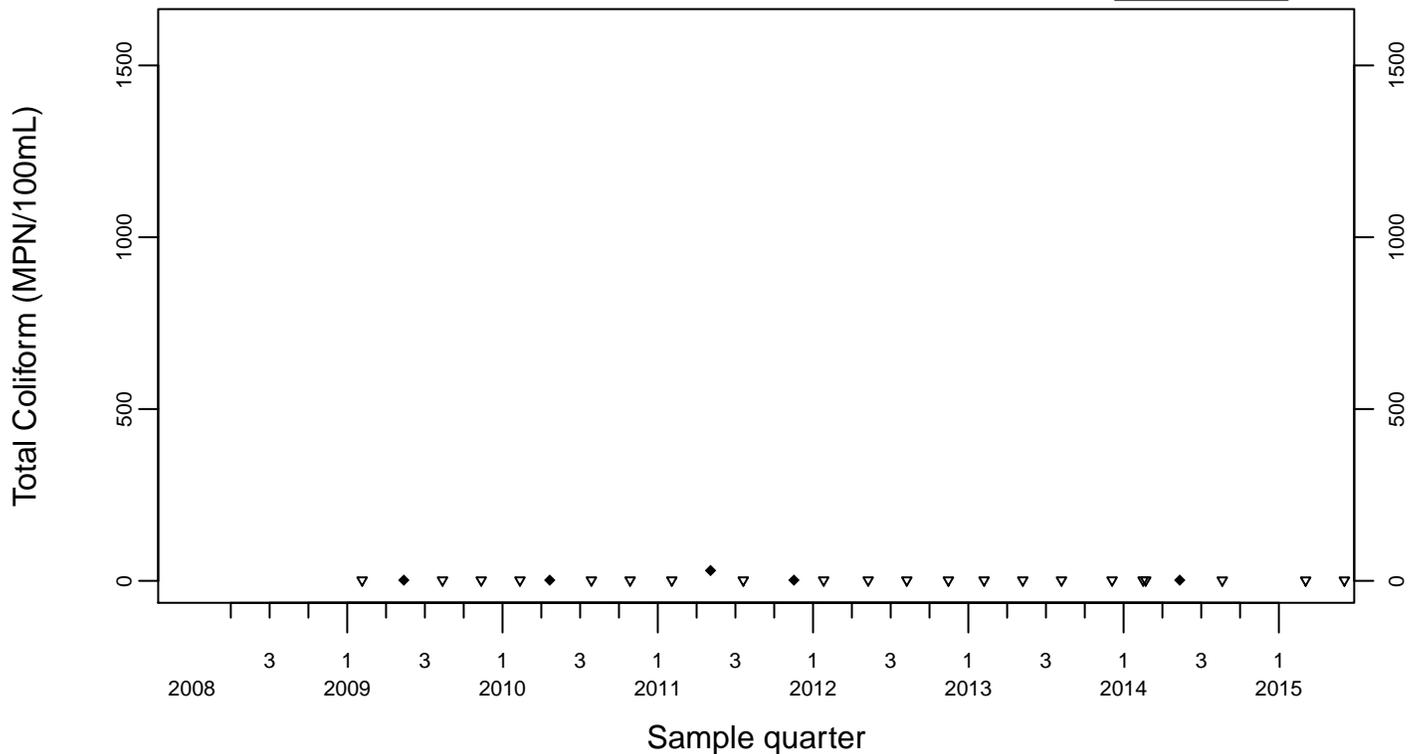
Downgradient Monitor Well W-26R-01



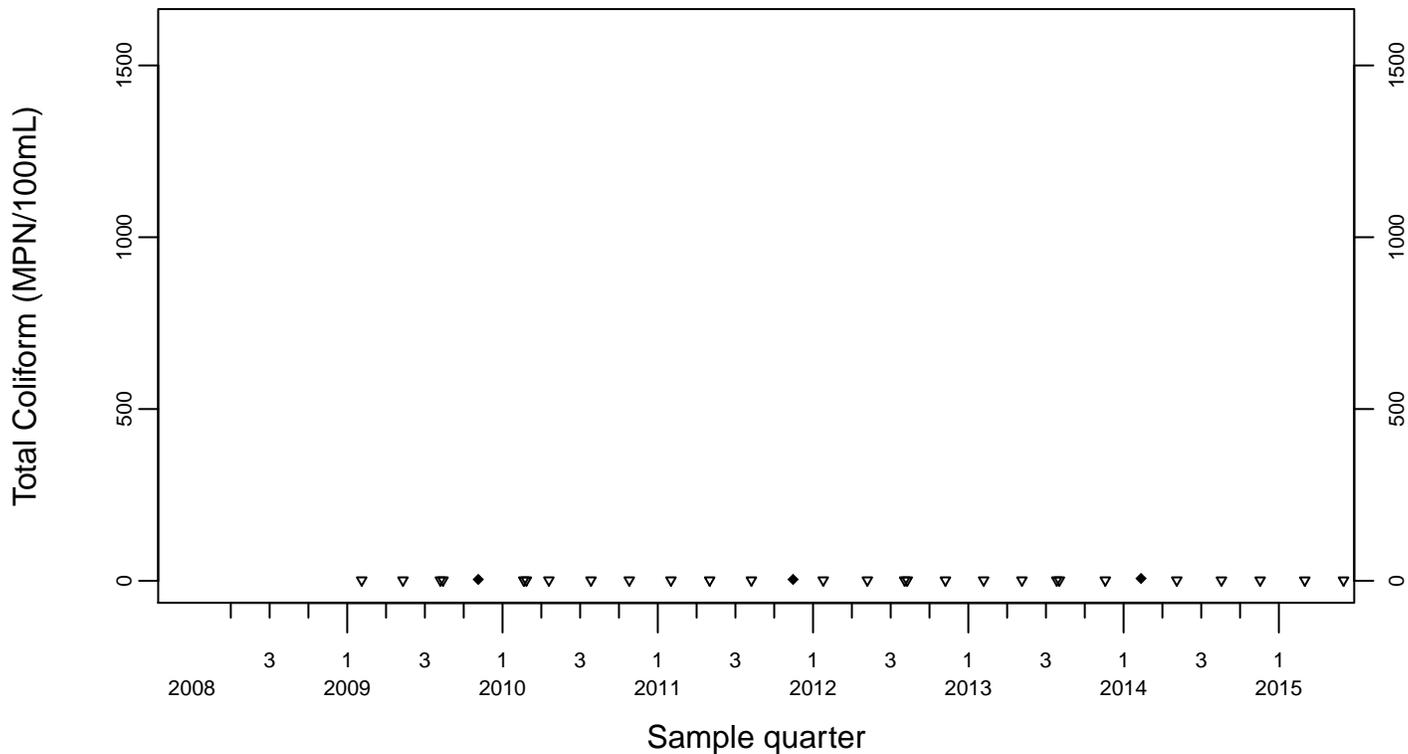
Sewage Ponds Ground Water Total Coliform (MPN/100mL)

Downgradient Monitor Well W-26R-05

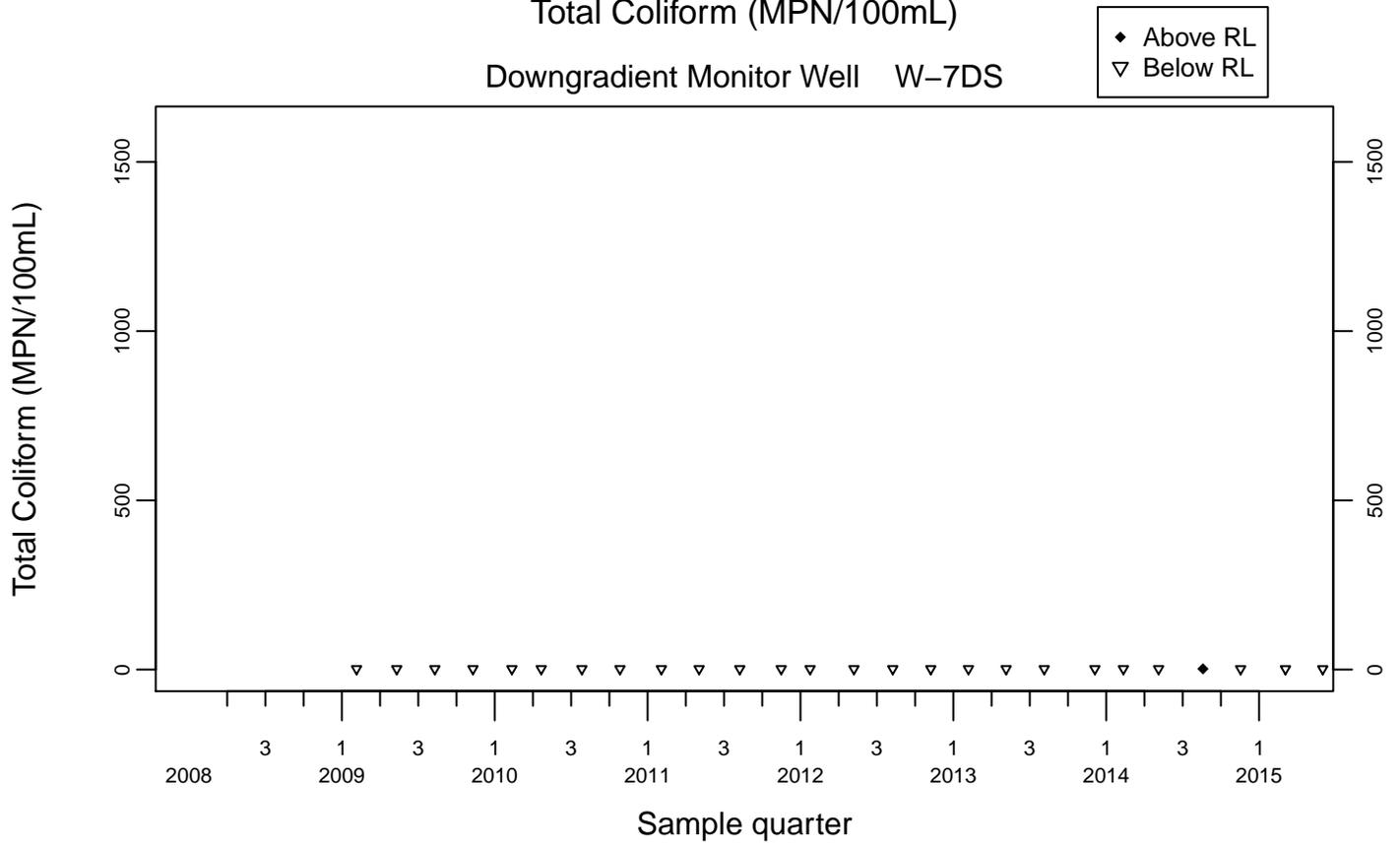
◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11



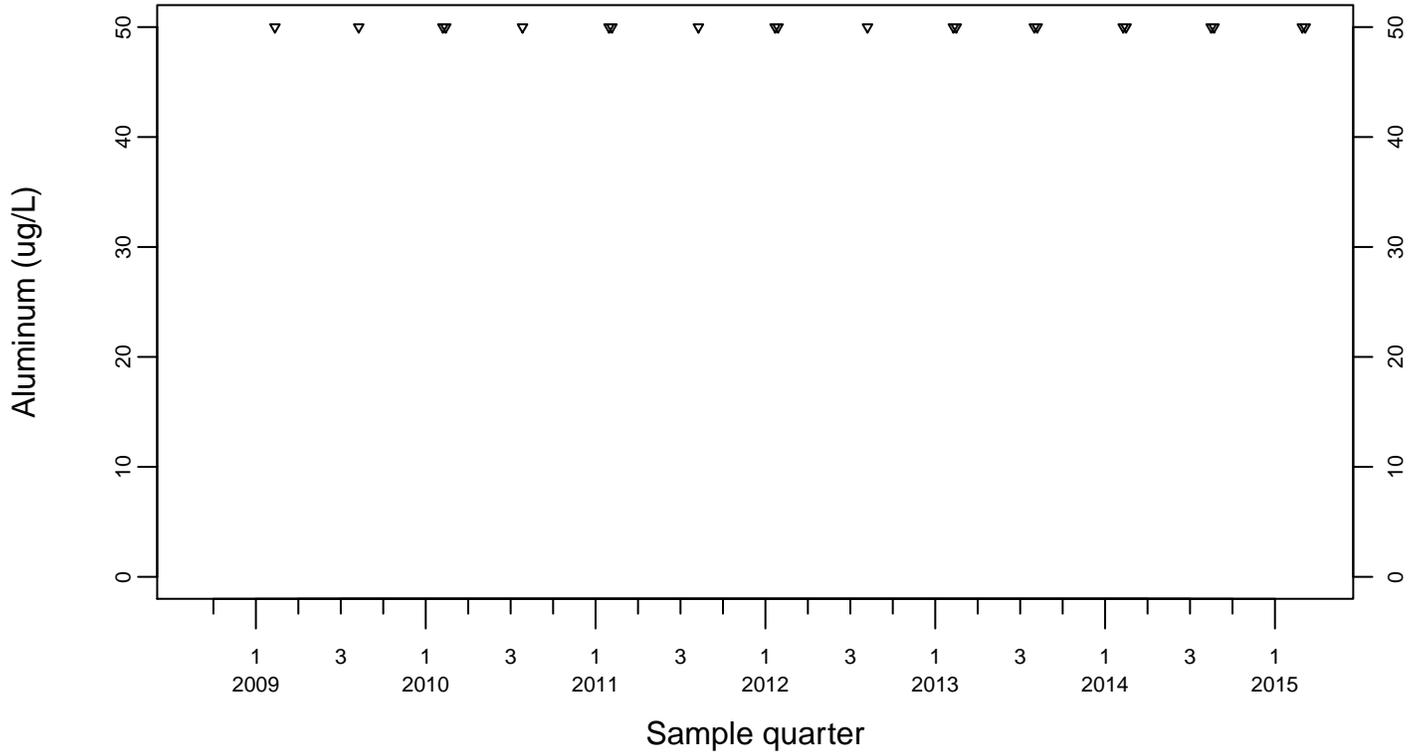
Sewage Ponds Ground Water
Total Coliform (MPN/100mL)
Downgradient Monitor Well W-7DS



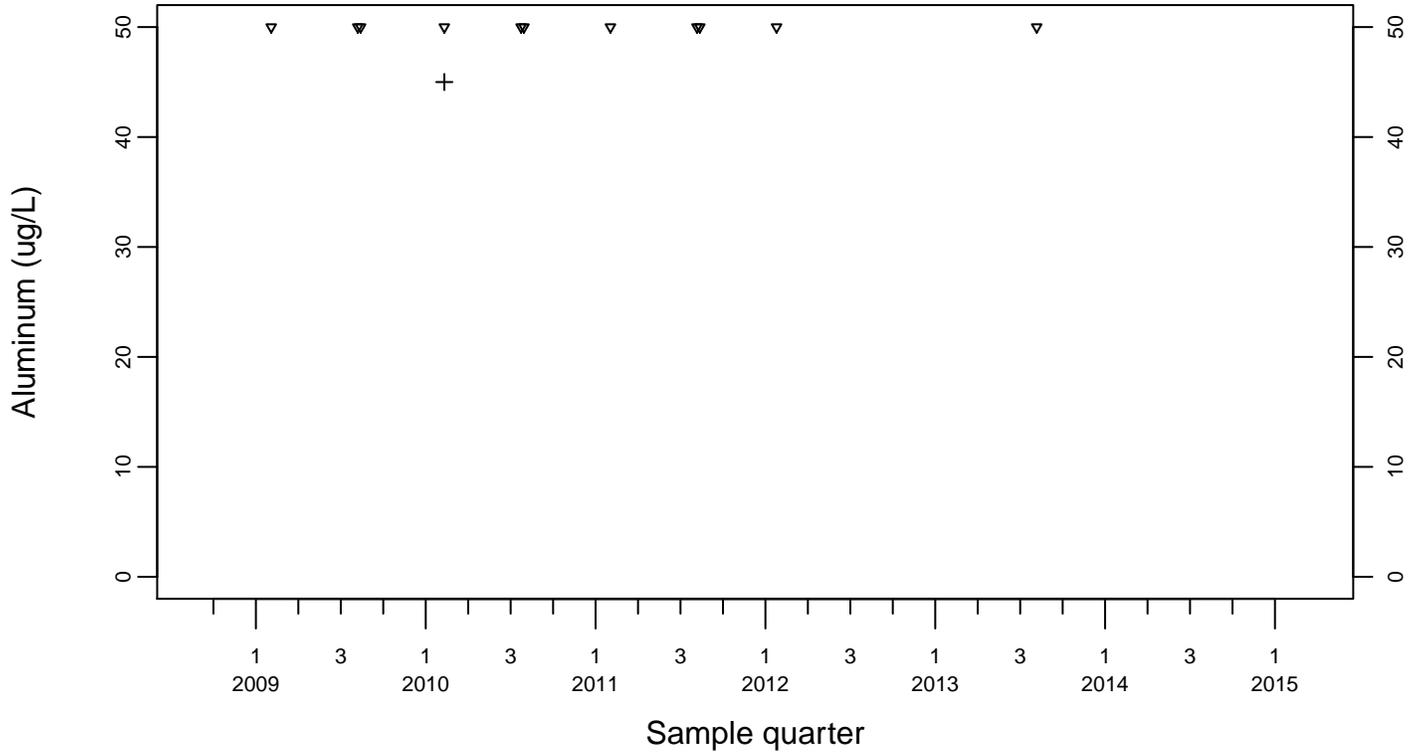
Sewage Ponds Ground Water Aluminum (ug/L)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL



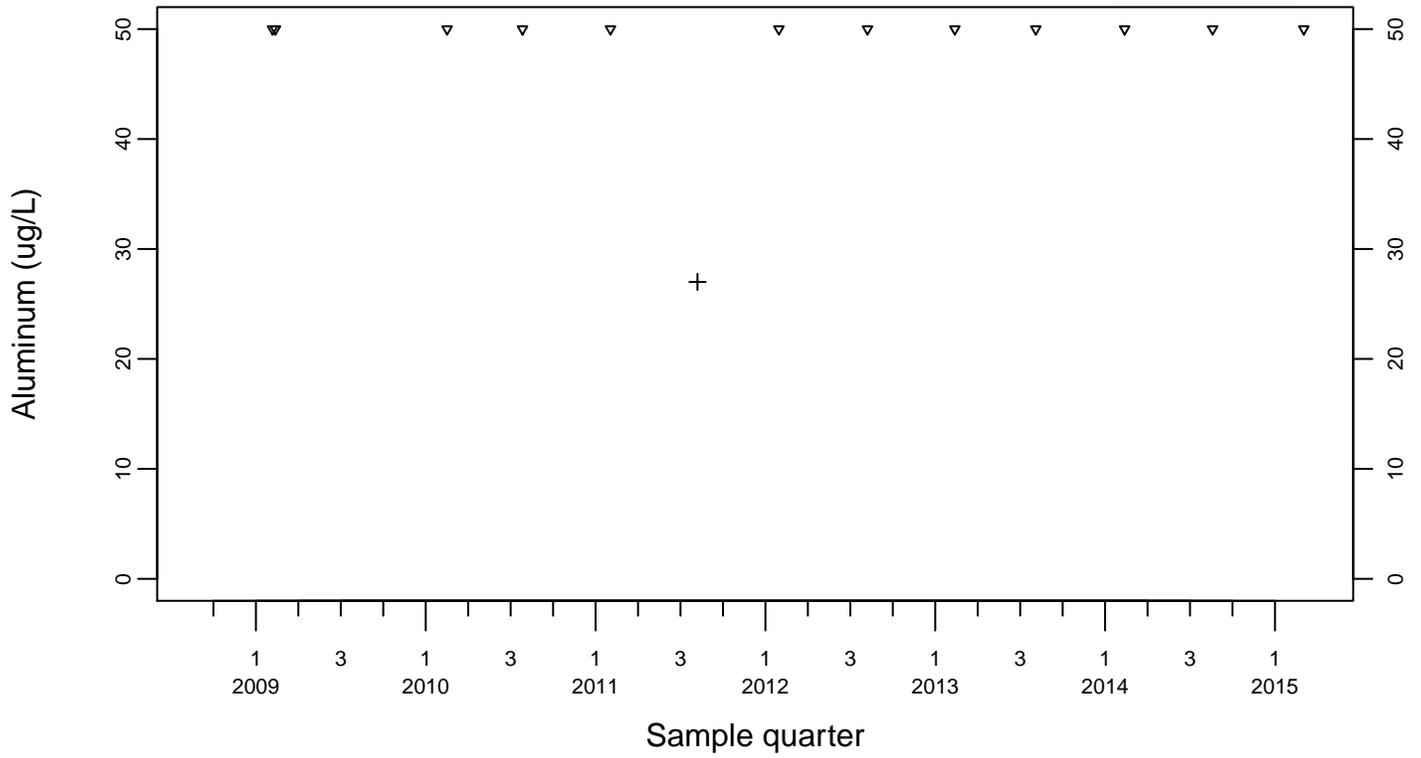
Upgradient Monitor Well W-7PS



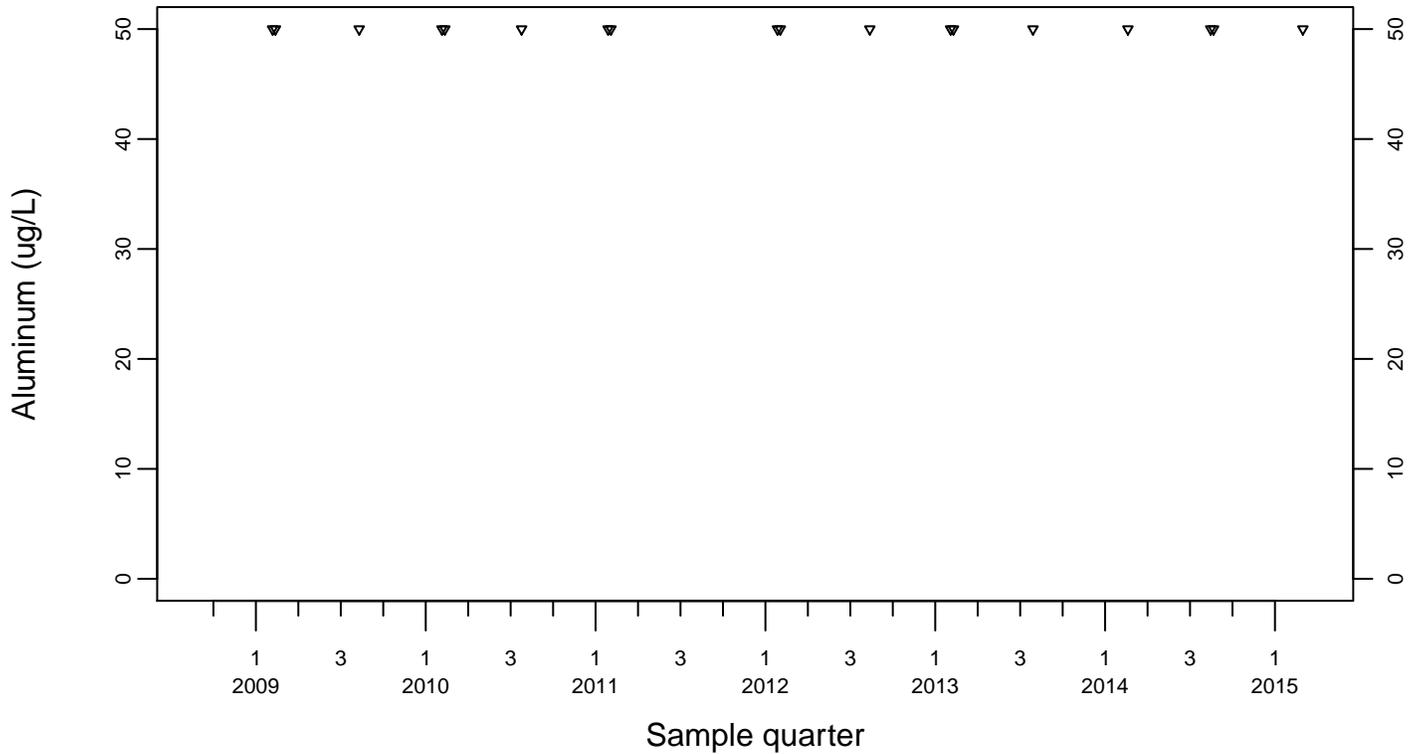
Sewage Ponds Ground Water Aluminum (ug/L)

Crossgradient Monitor Well W-35A-04

- ◆ Above RL
- ▽ Below RL
- + Estimated



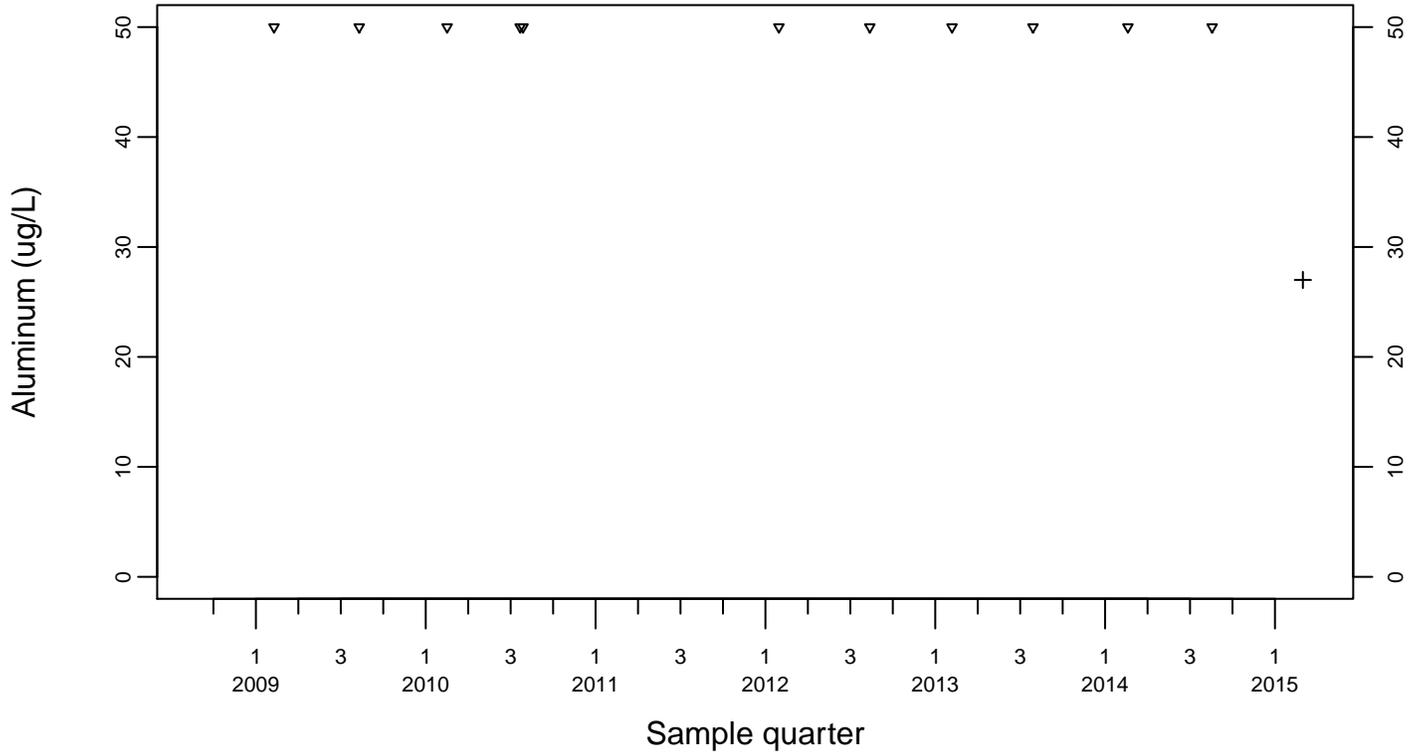
Downgradient Monitor Well W-25N-23



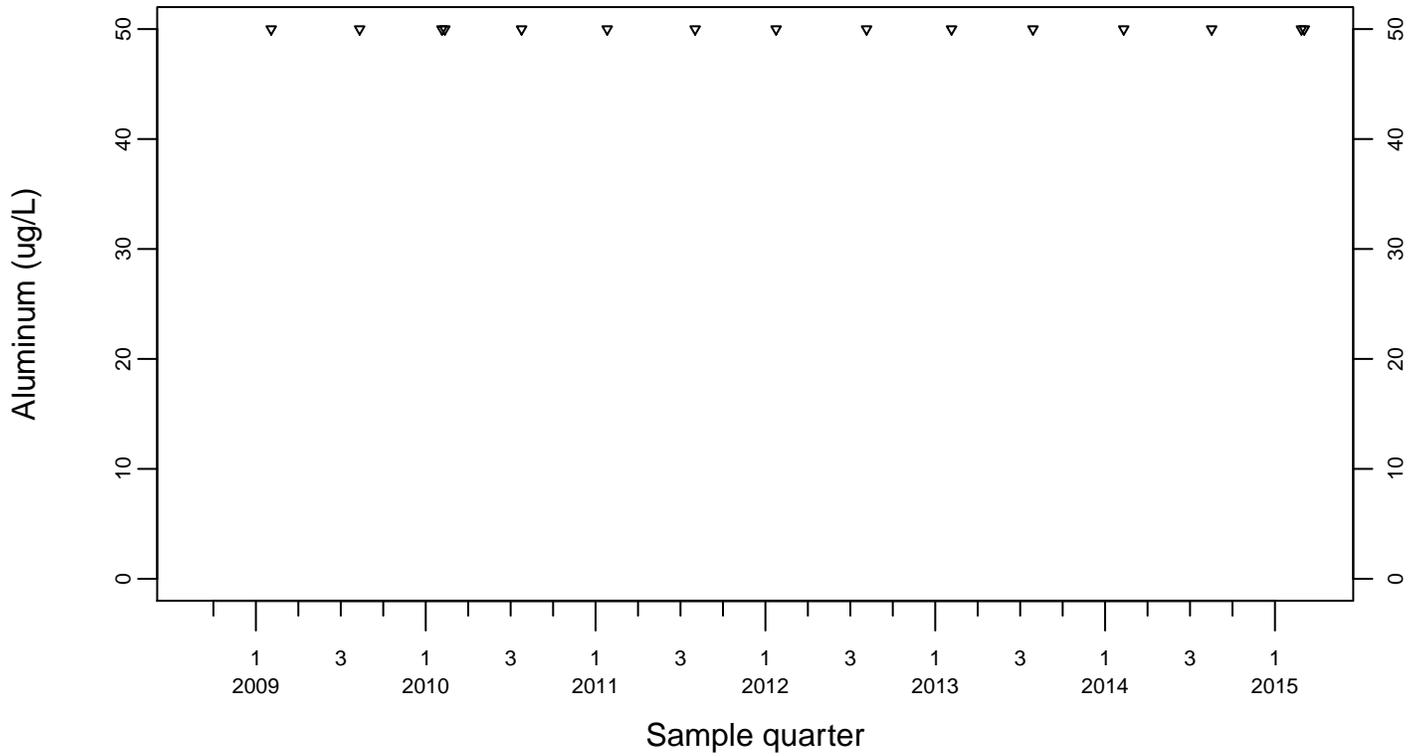
Sewage Ponds Ground Water Aluminum (ug/L)

Downgradient Monitor Well W-25N-22

- ◆ Above RL
- ▽ Below RL
- + Estimated



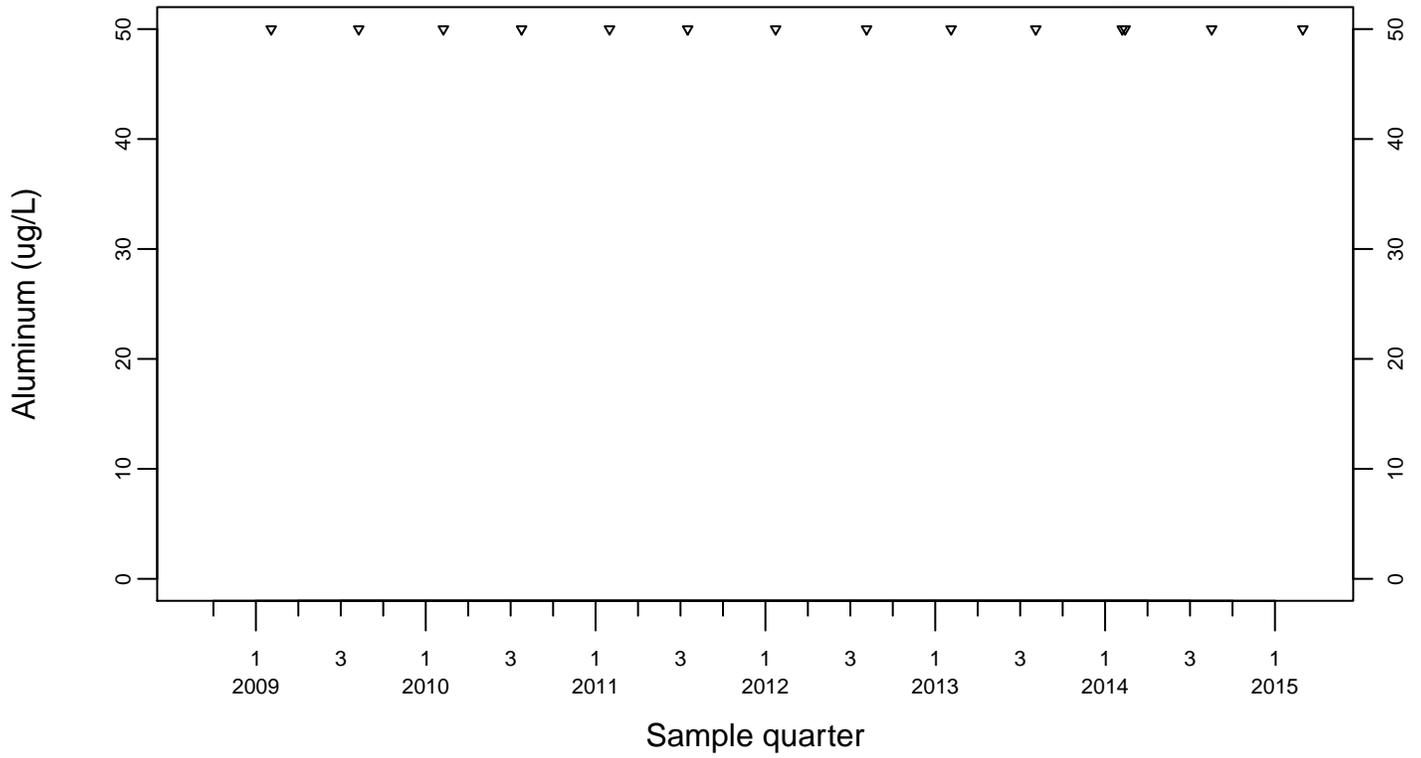
Downgradient Monitor Well W-26R-01



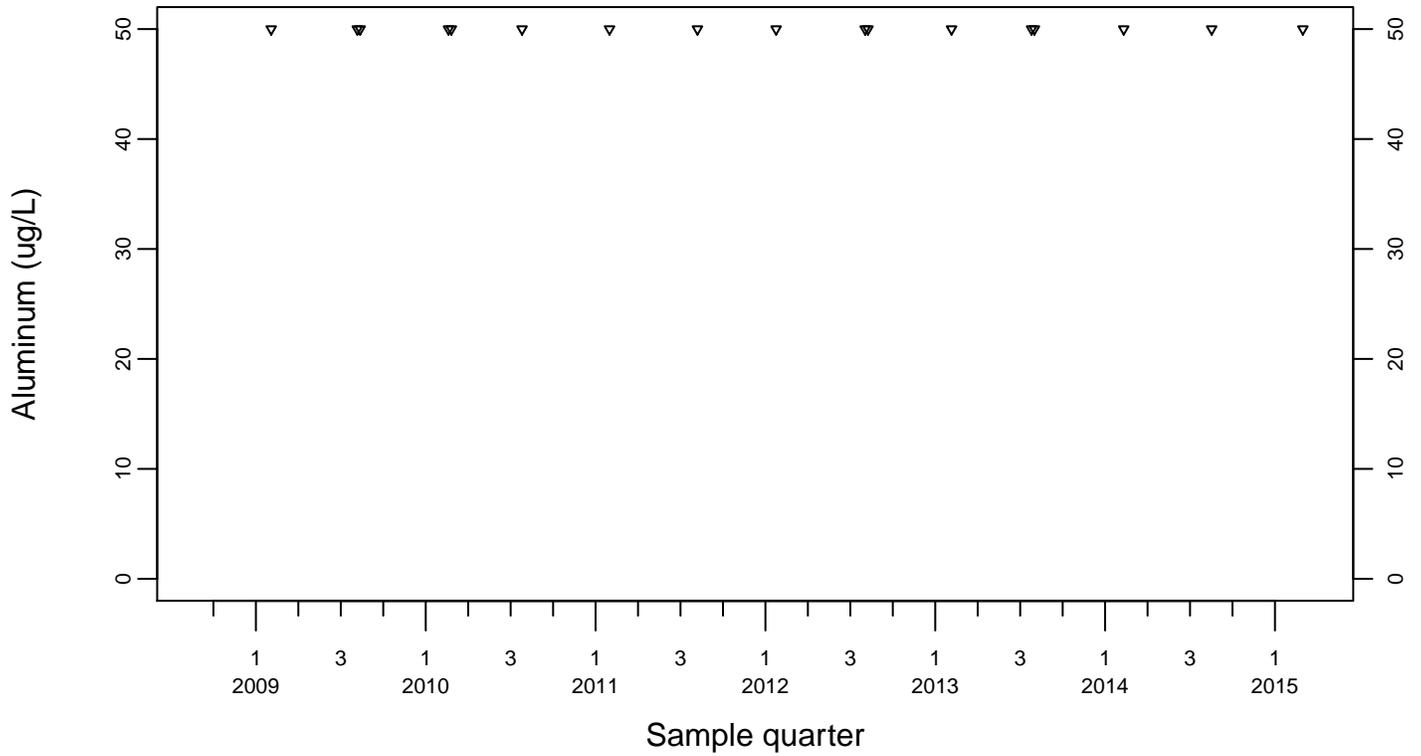
Sewage Ponds Ground Water Aluminum (ug/L)

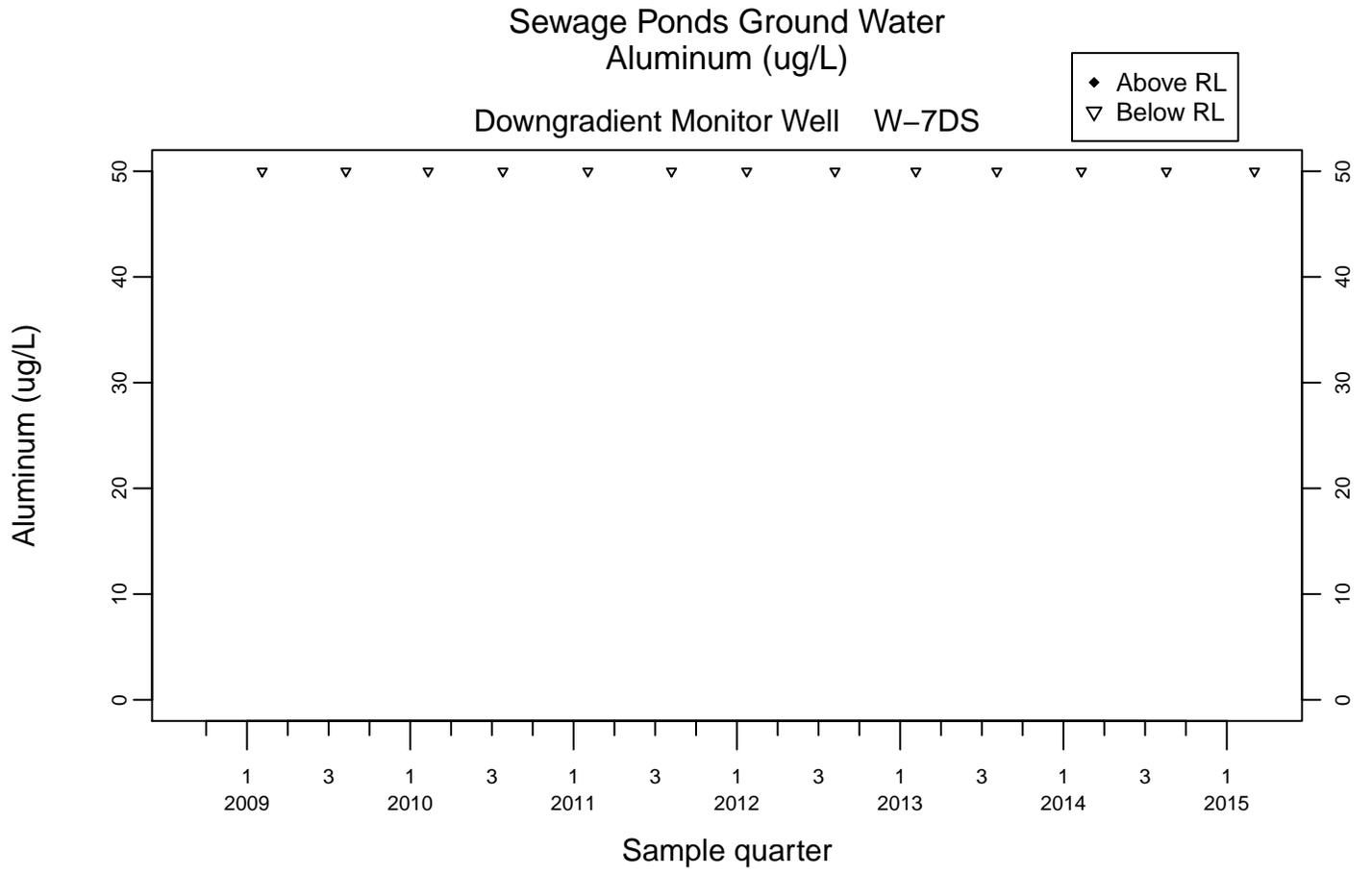
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

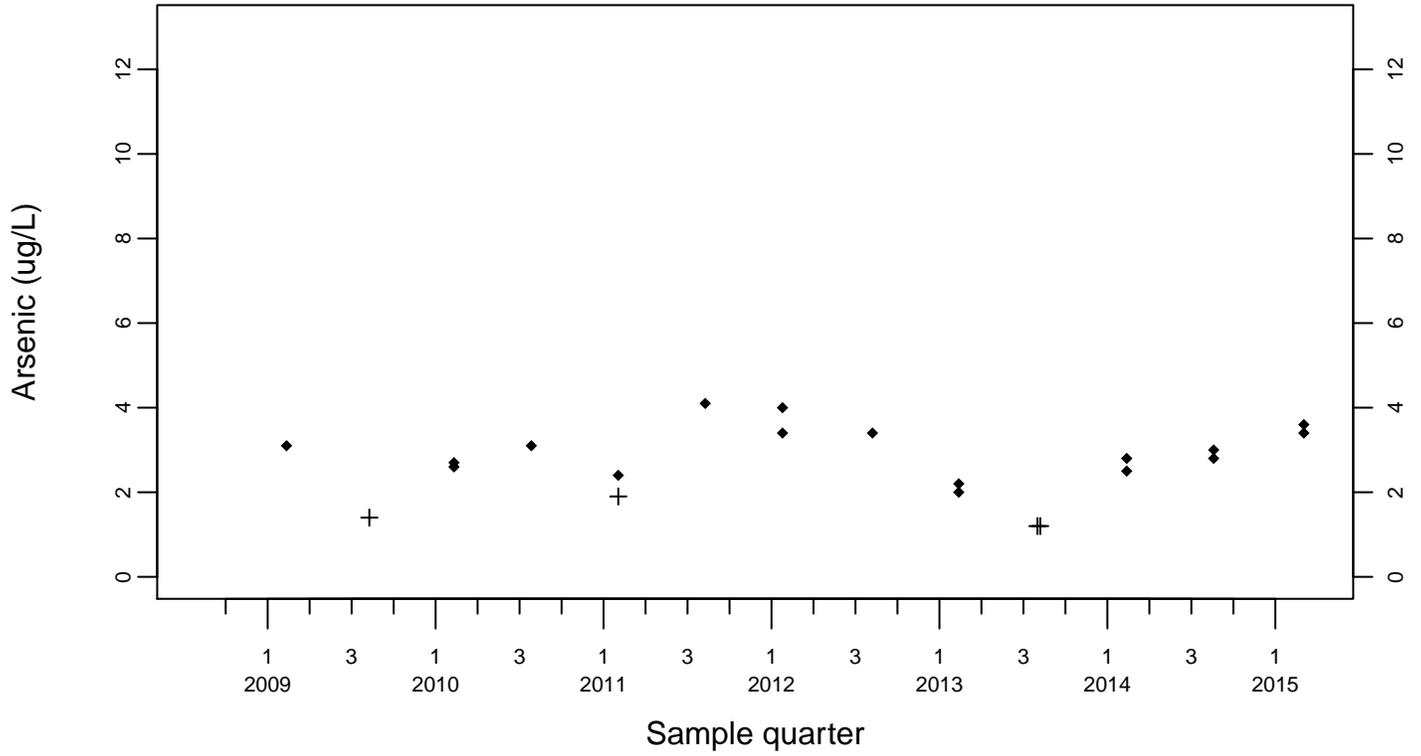




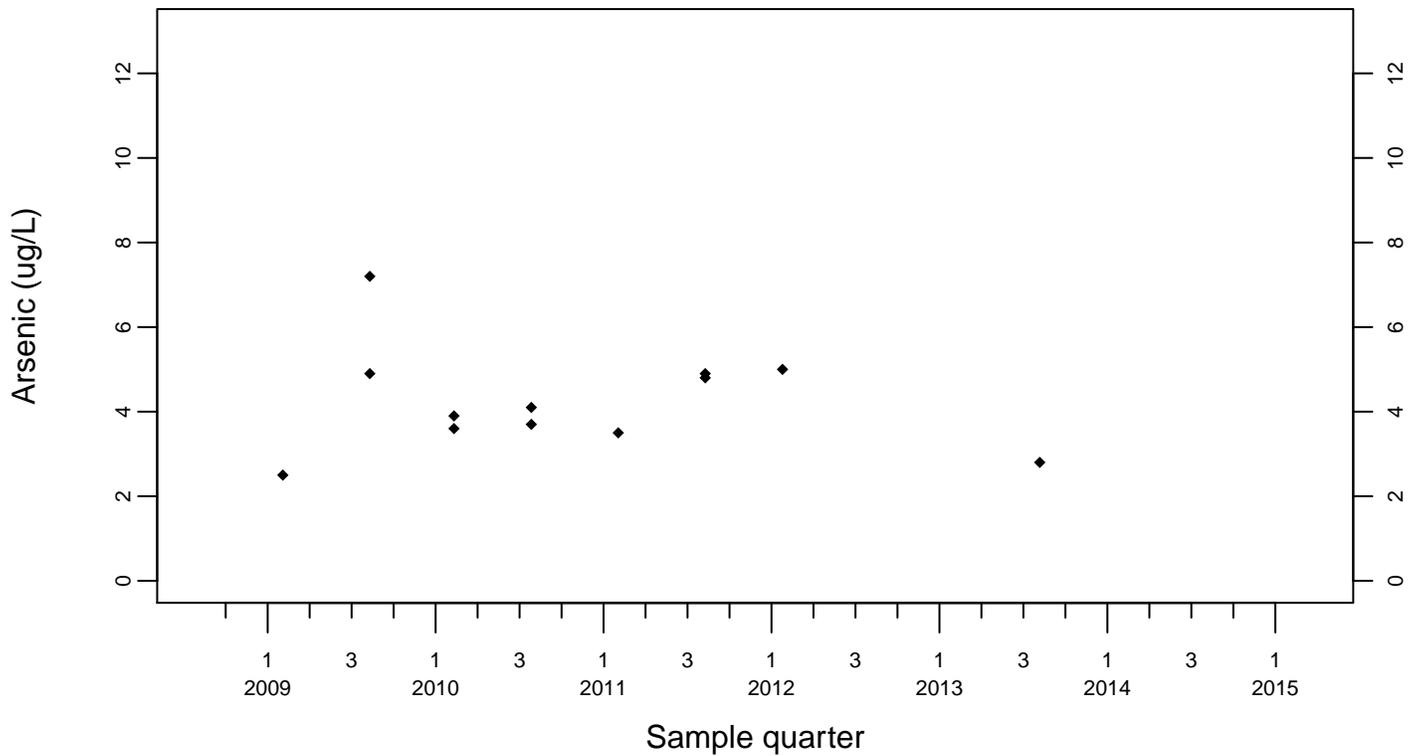
Sewage Ponds Ground Water Arsenic (ug/L)

Upgradient Monitor Well W-7ES

◆ Above RL
+ Estimated



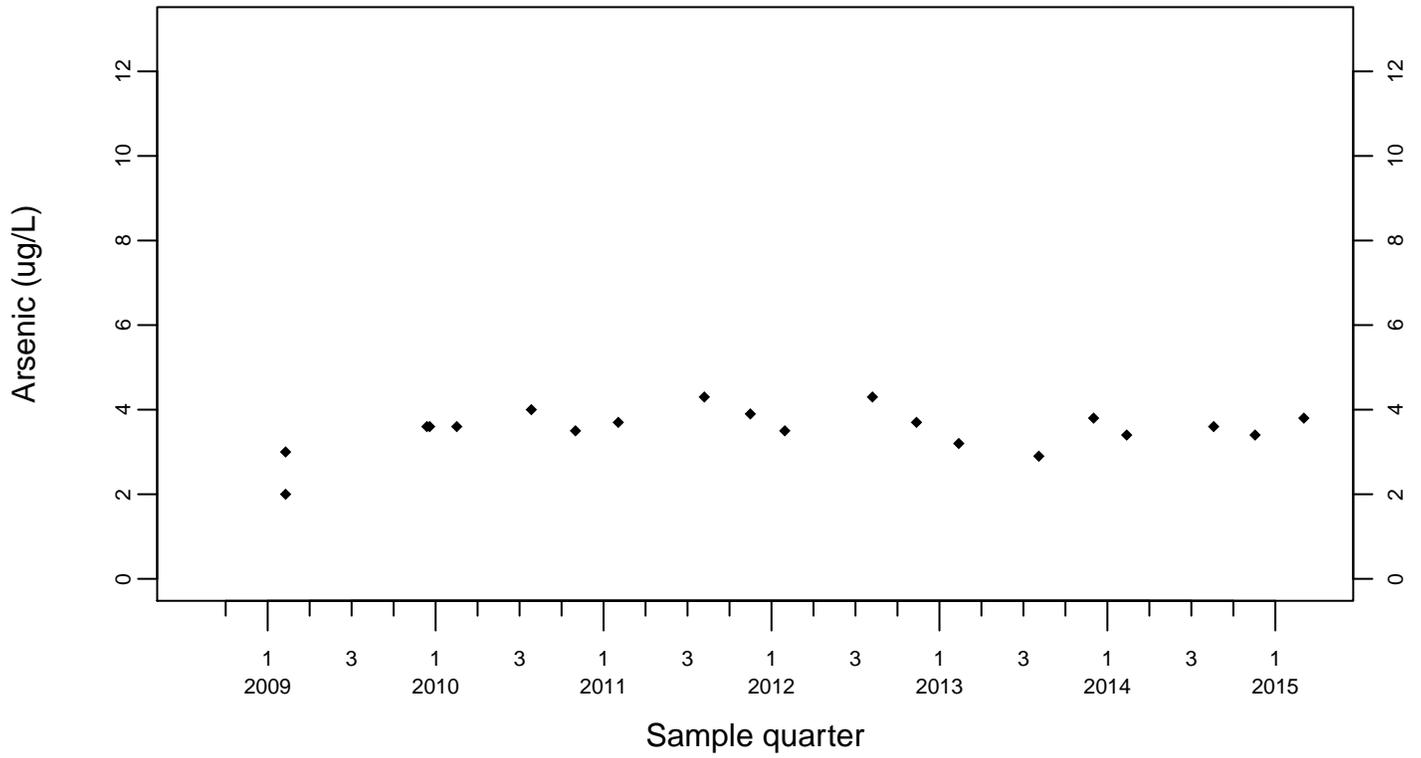
Upgradient Monitor Well W-7PS



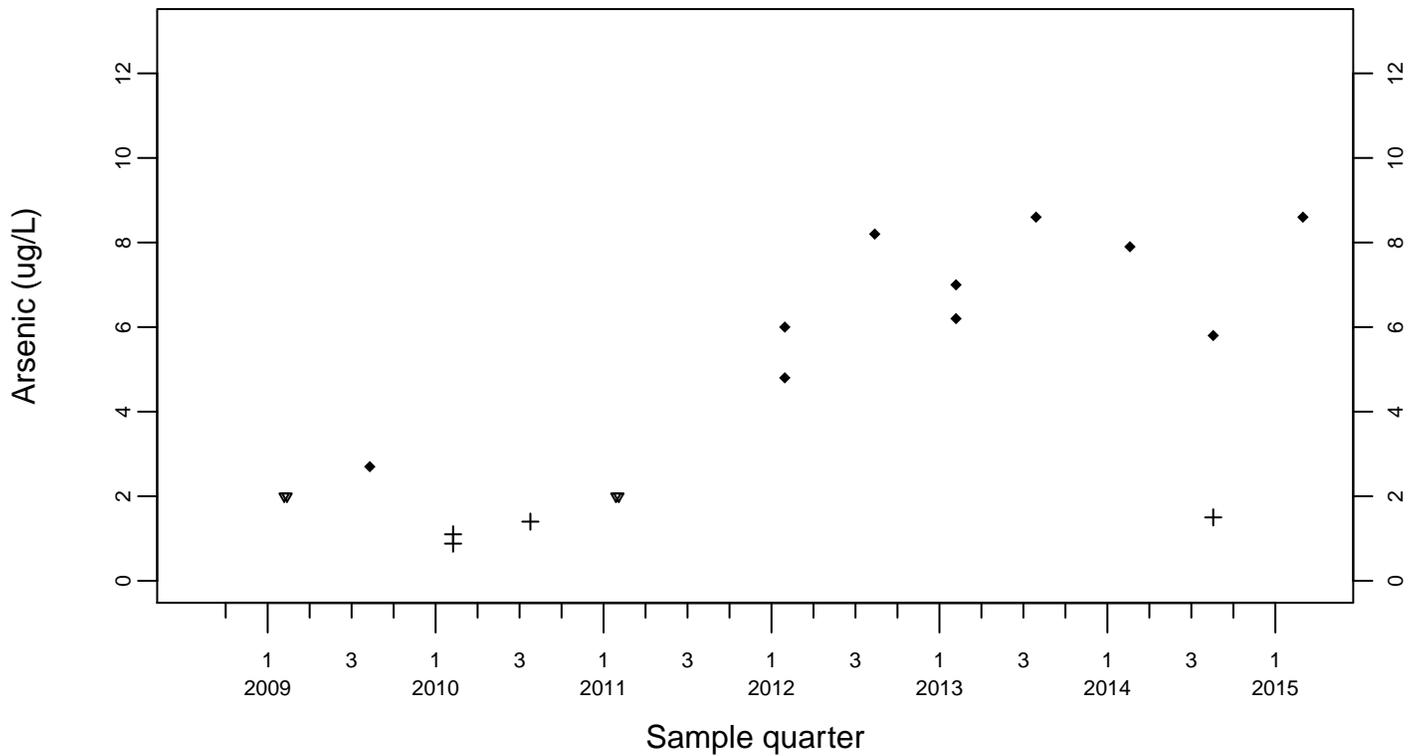
Sewage Ponds Ground Water
 Arsenic (ug/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
 ▼ Below RL



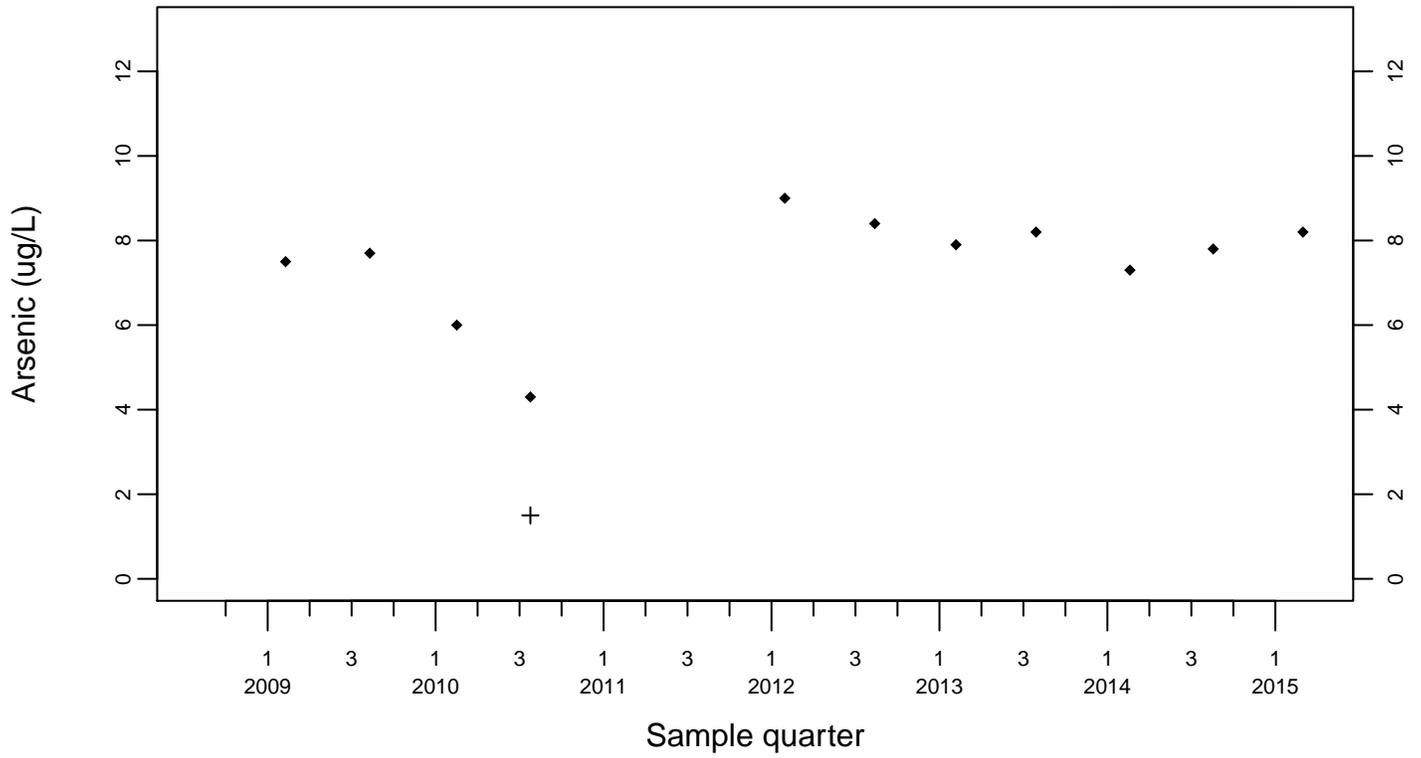
Downgradient Monitor Well W-25N-23



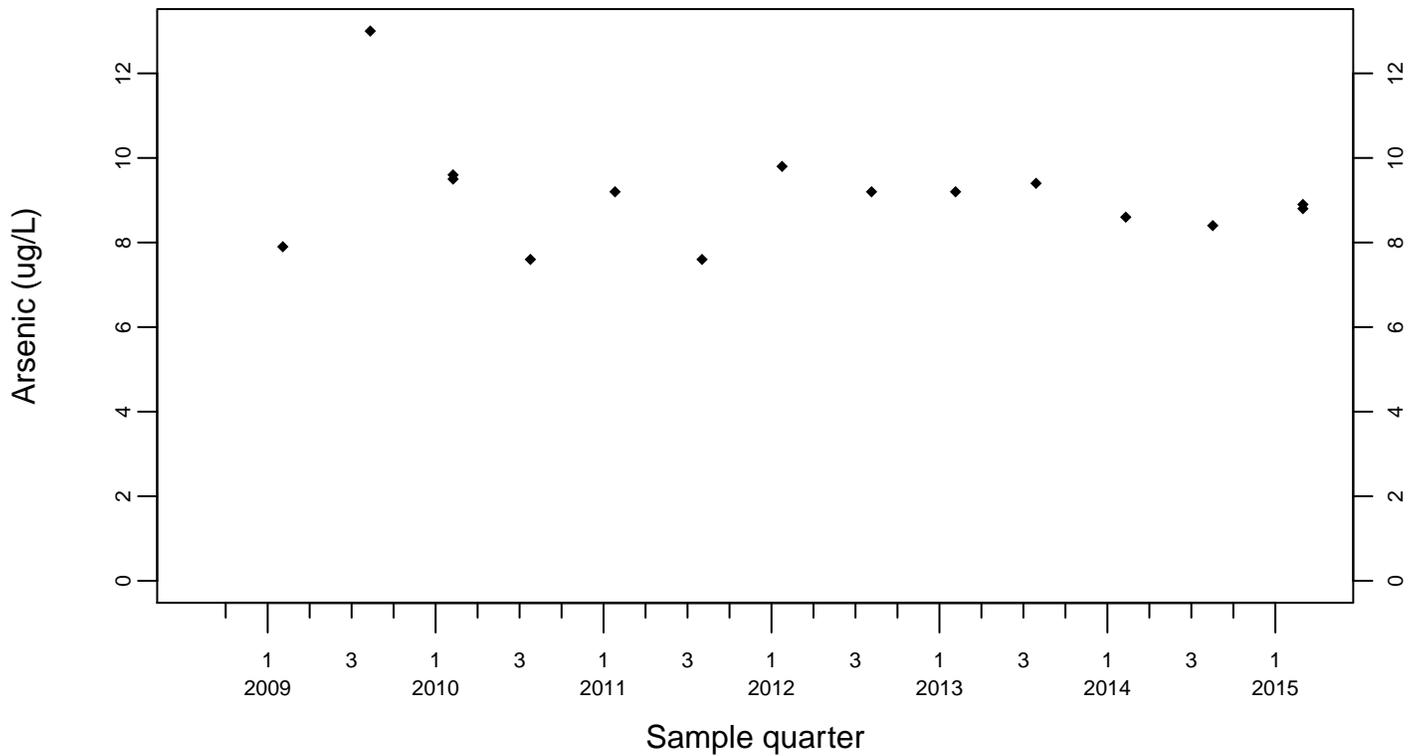
Sewage Ponds Ground Water Arsenic (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
+ Estimated



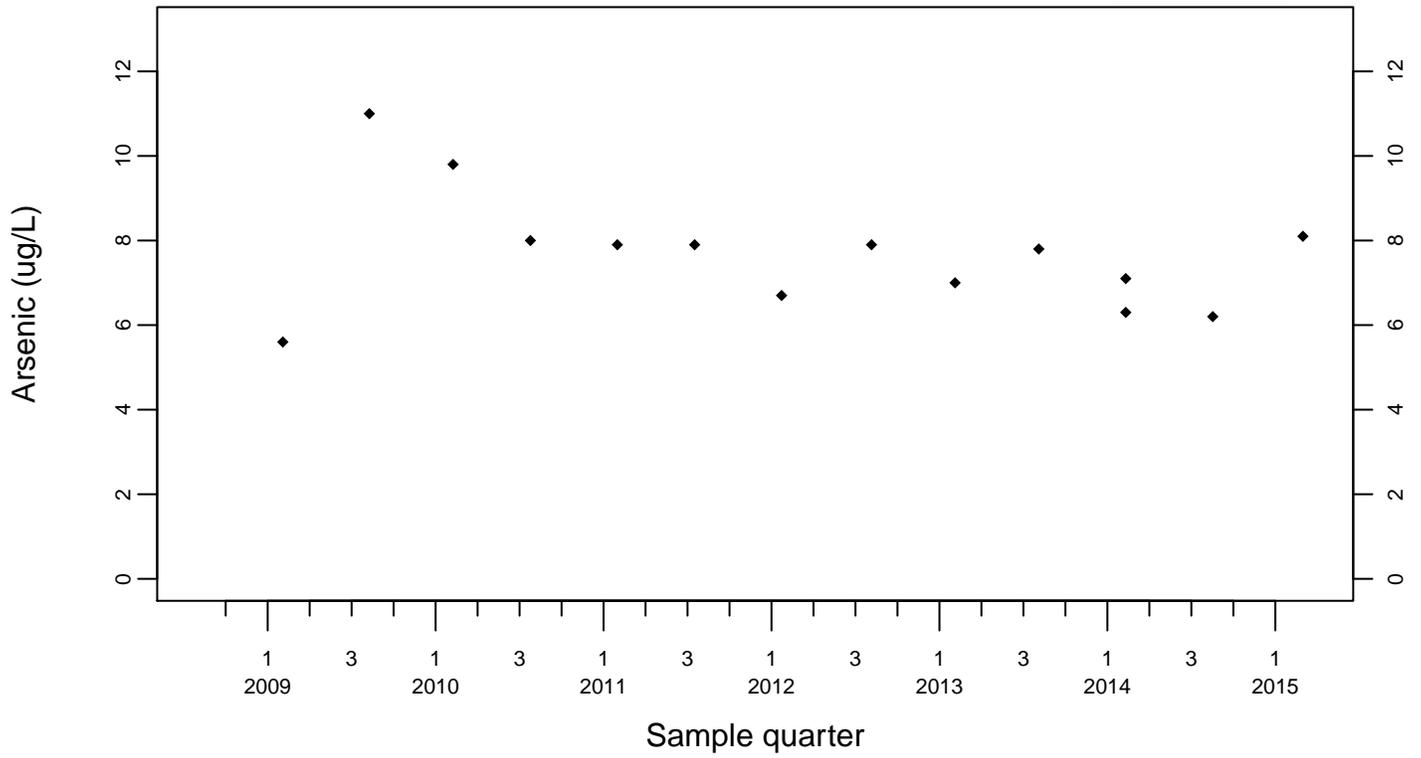
Downgradient Monitor Well W-26R-01



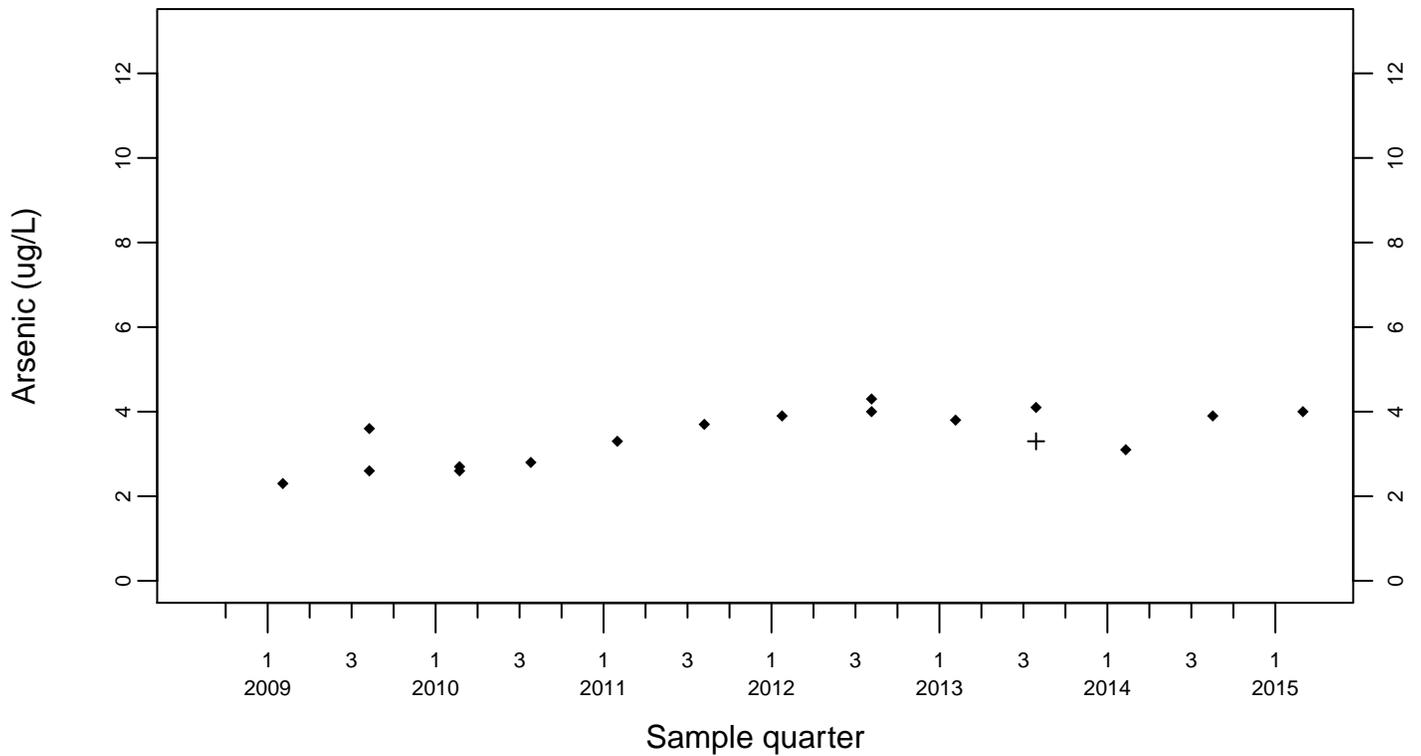
Sewage Ponds Ground Water Arsenic (ug/L)

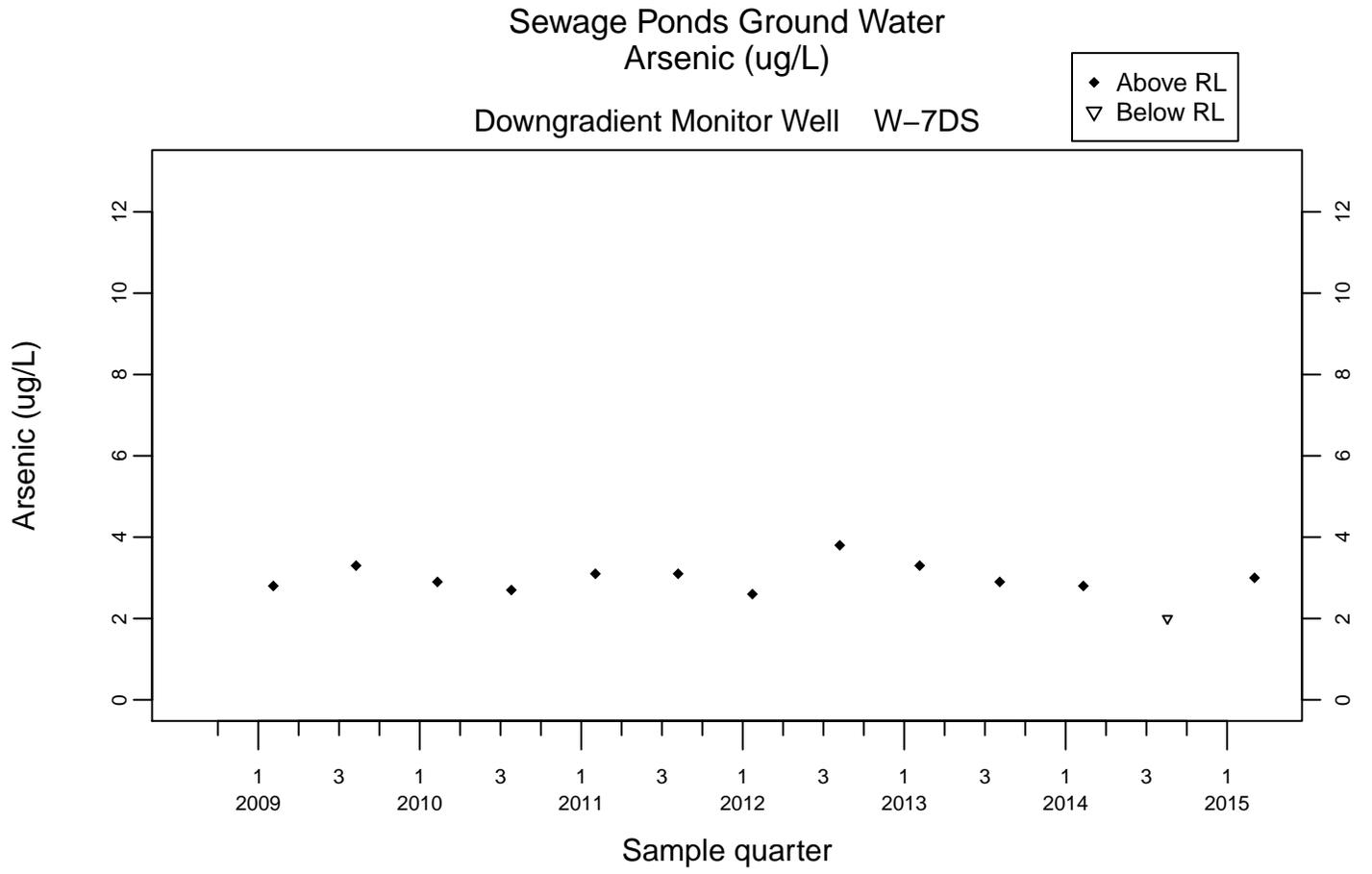
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

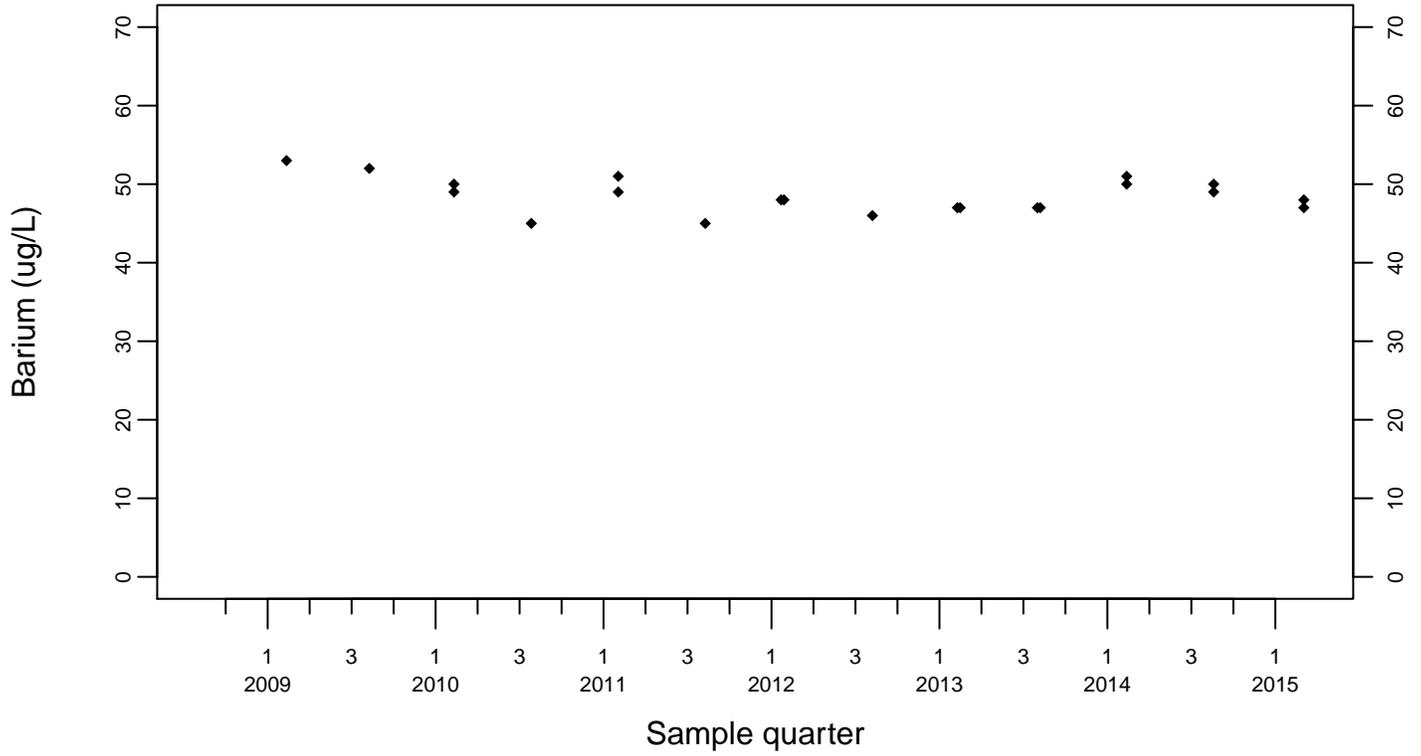




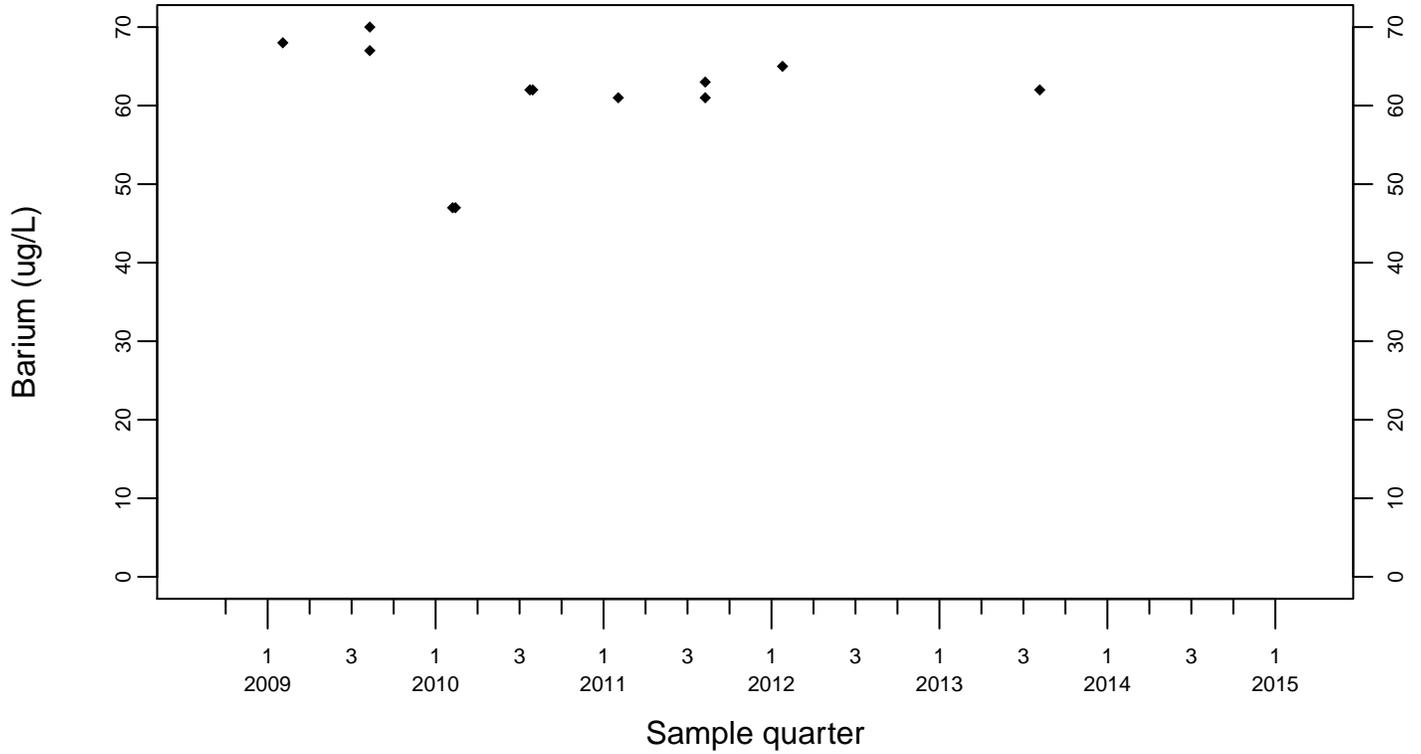
Sewage Ponds Ground Water Barium (ug/L)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL



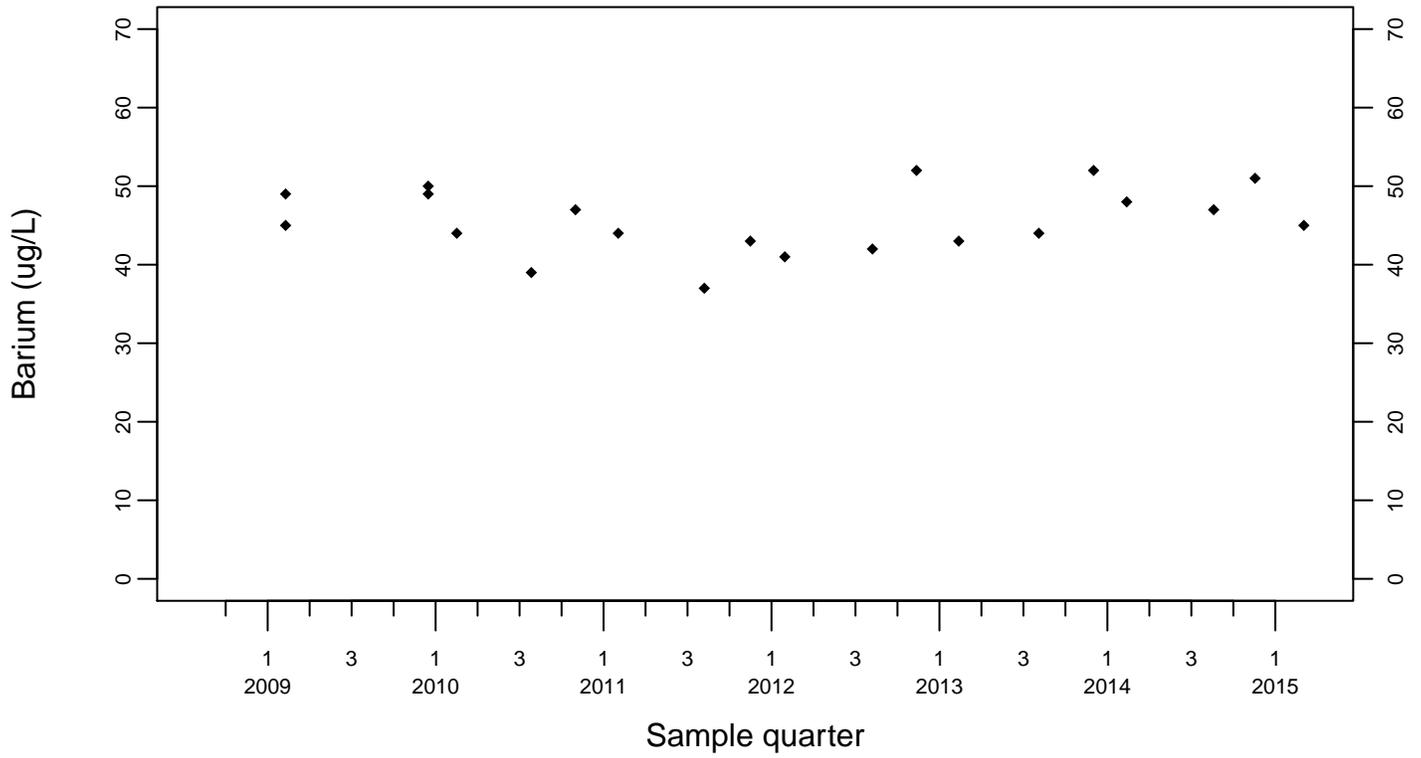
Upgradient Monitor Well W-7PS



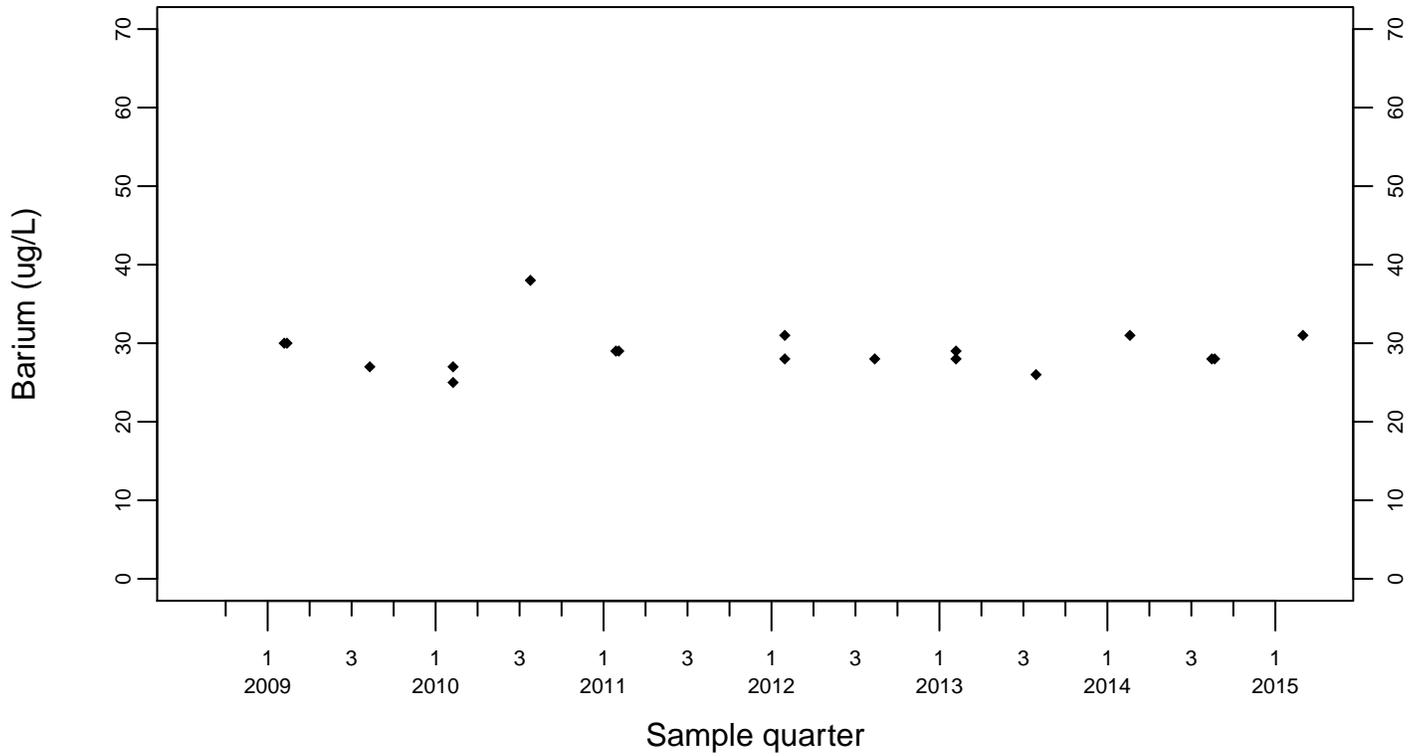
Sewage Ponds Ground Water Barium (ug/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



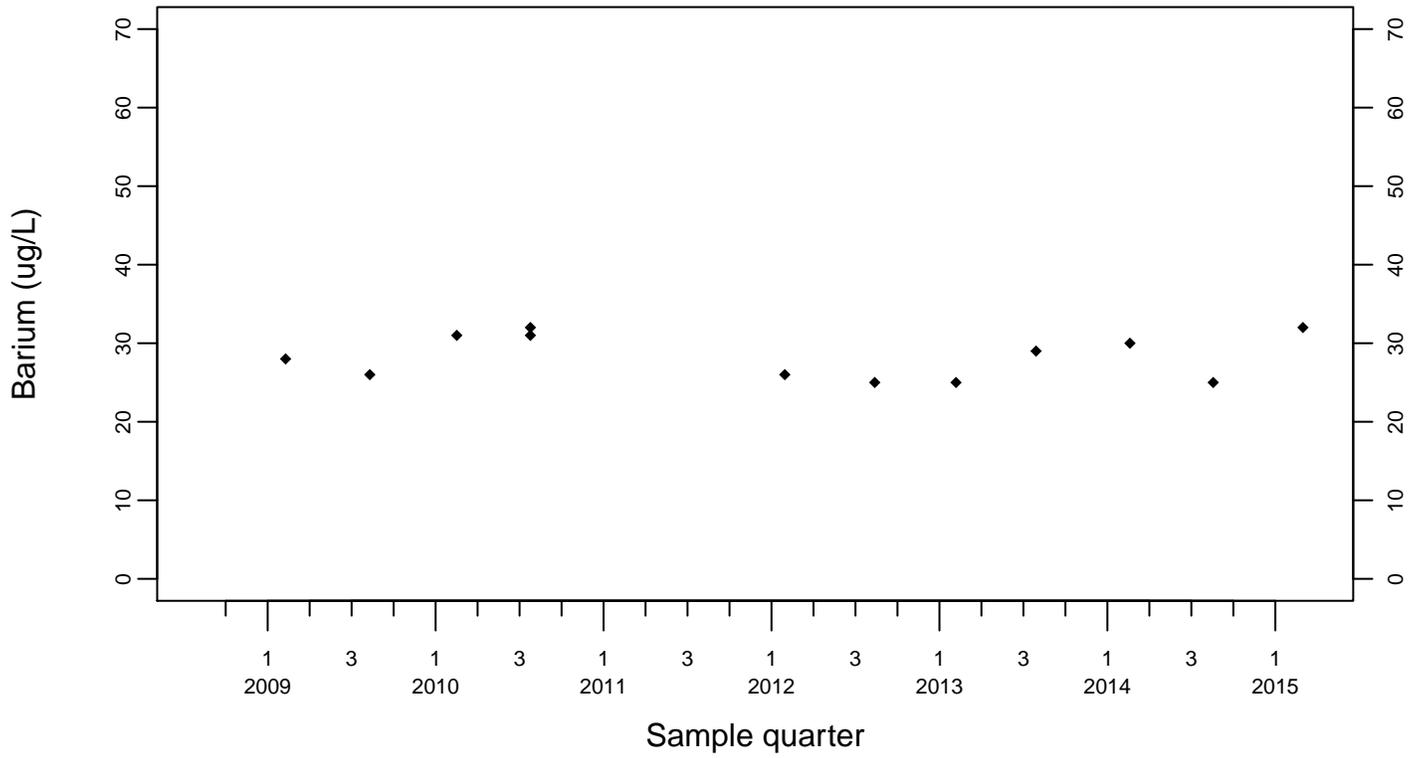
Downgradient Monitor Well W-25N-23



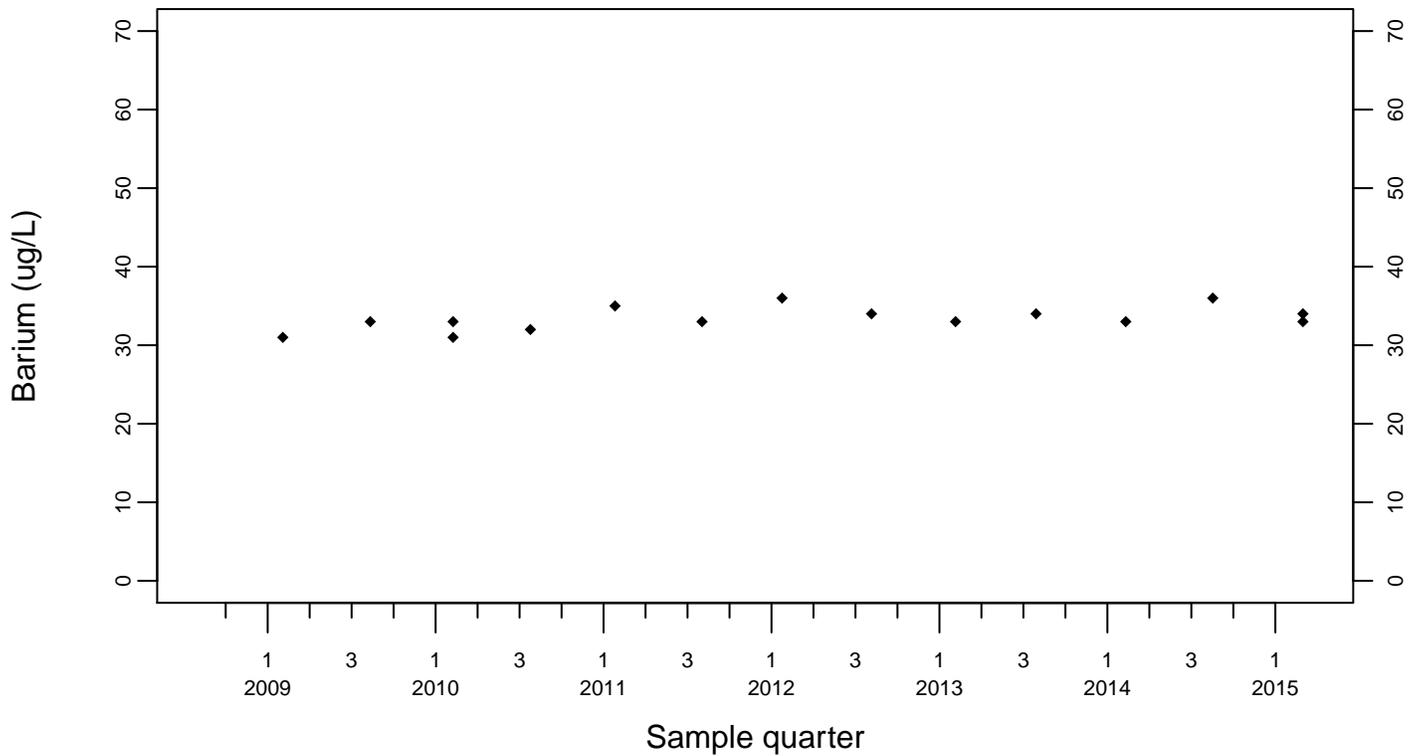
Sewage Ponds Ground Water Barium (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



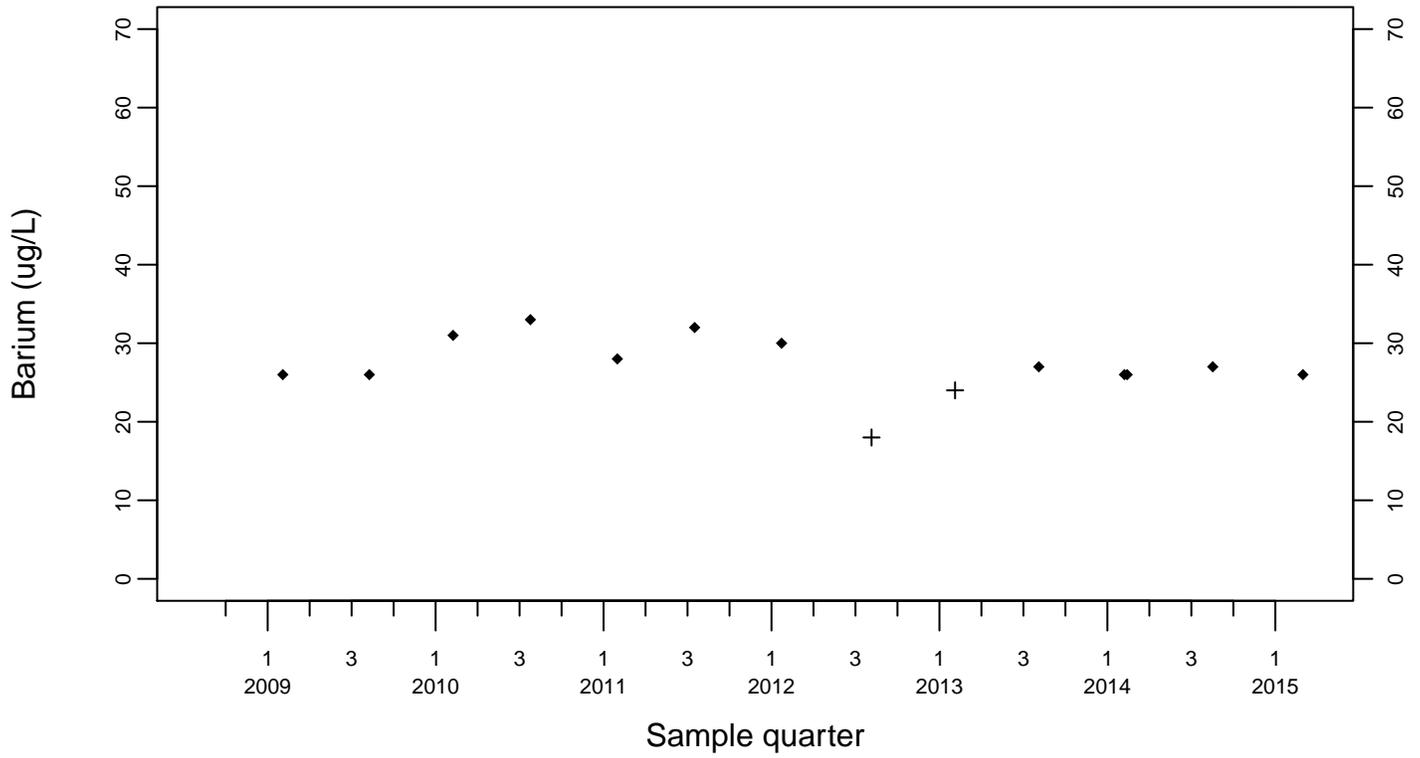
Downgradient Monitor Well W-26R-01



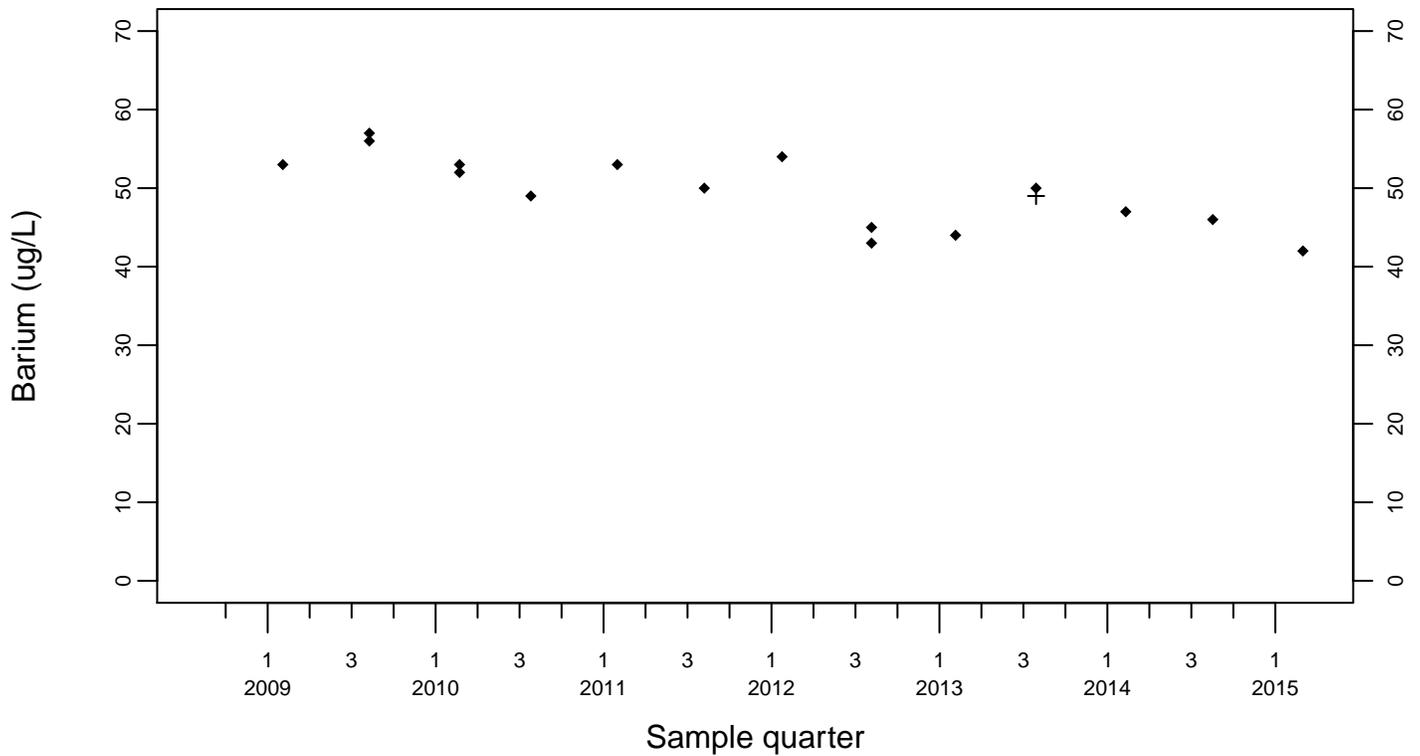
Sewage Ponds Ground Water Barium (ug/L)

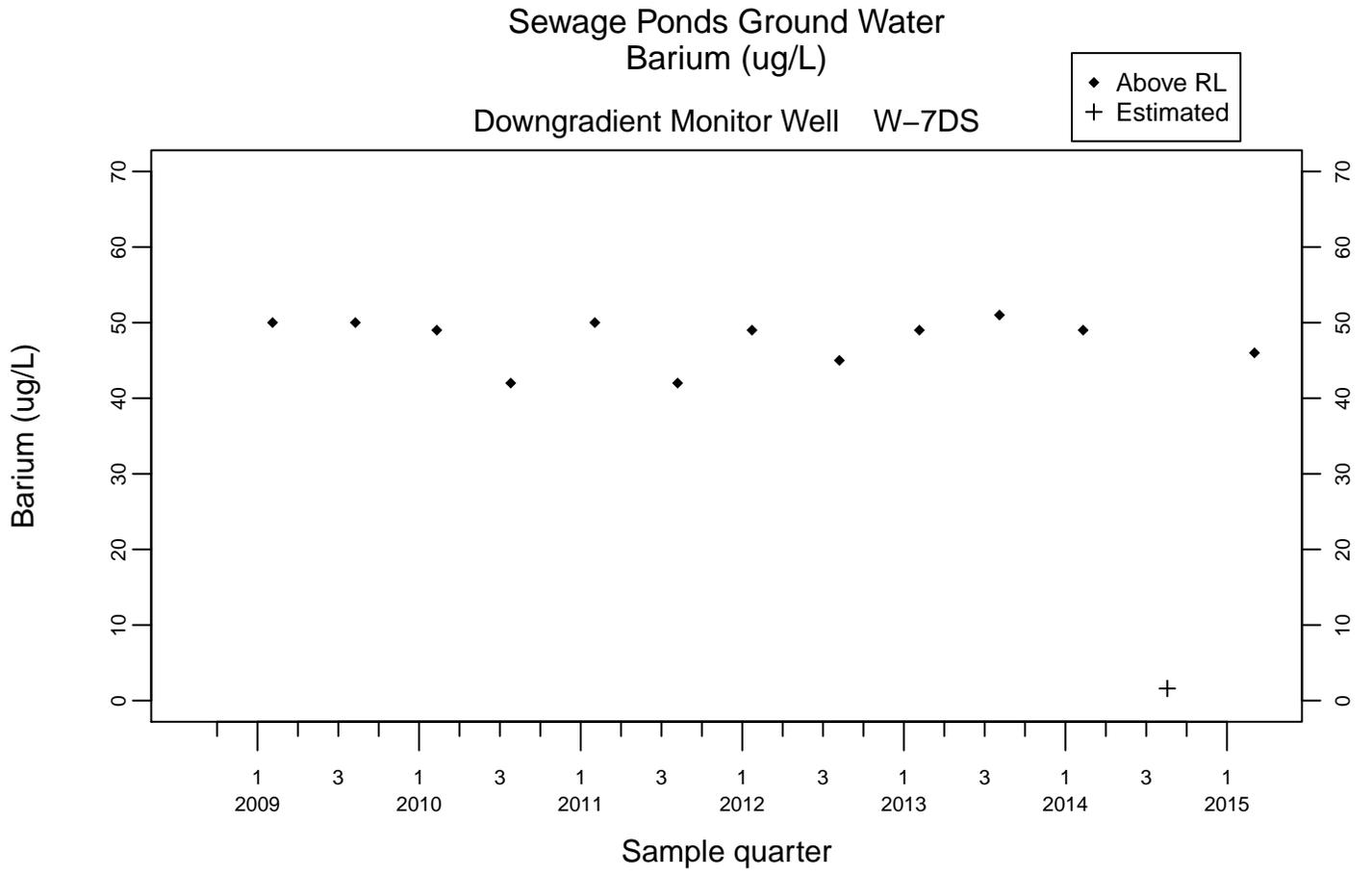
Downgradient Monitor Well W-26R-05

◆ Above RL
+ Estimated



Downgradient Monitor Well W-26R-11

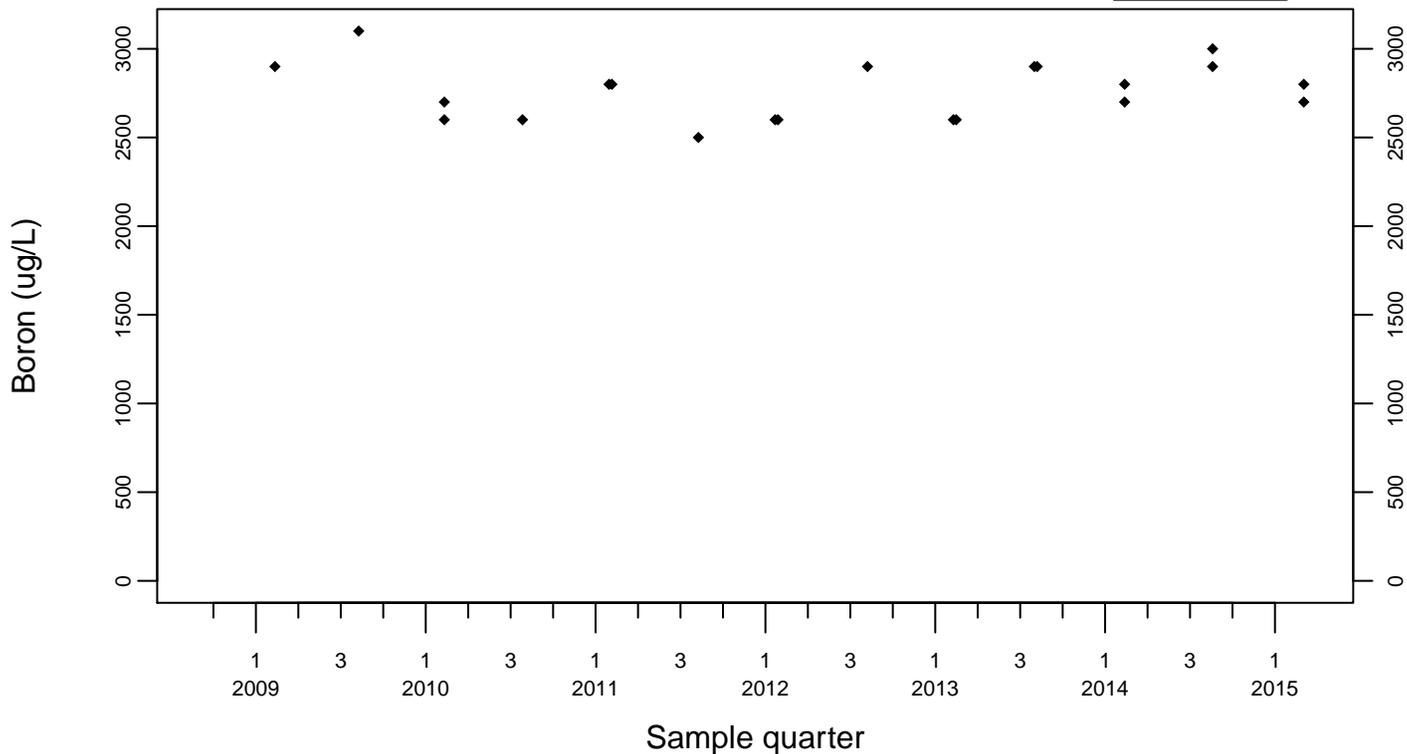




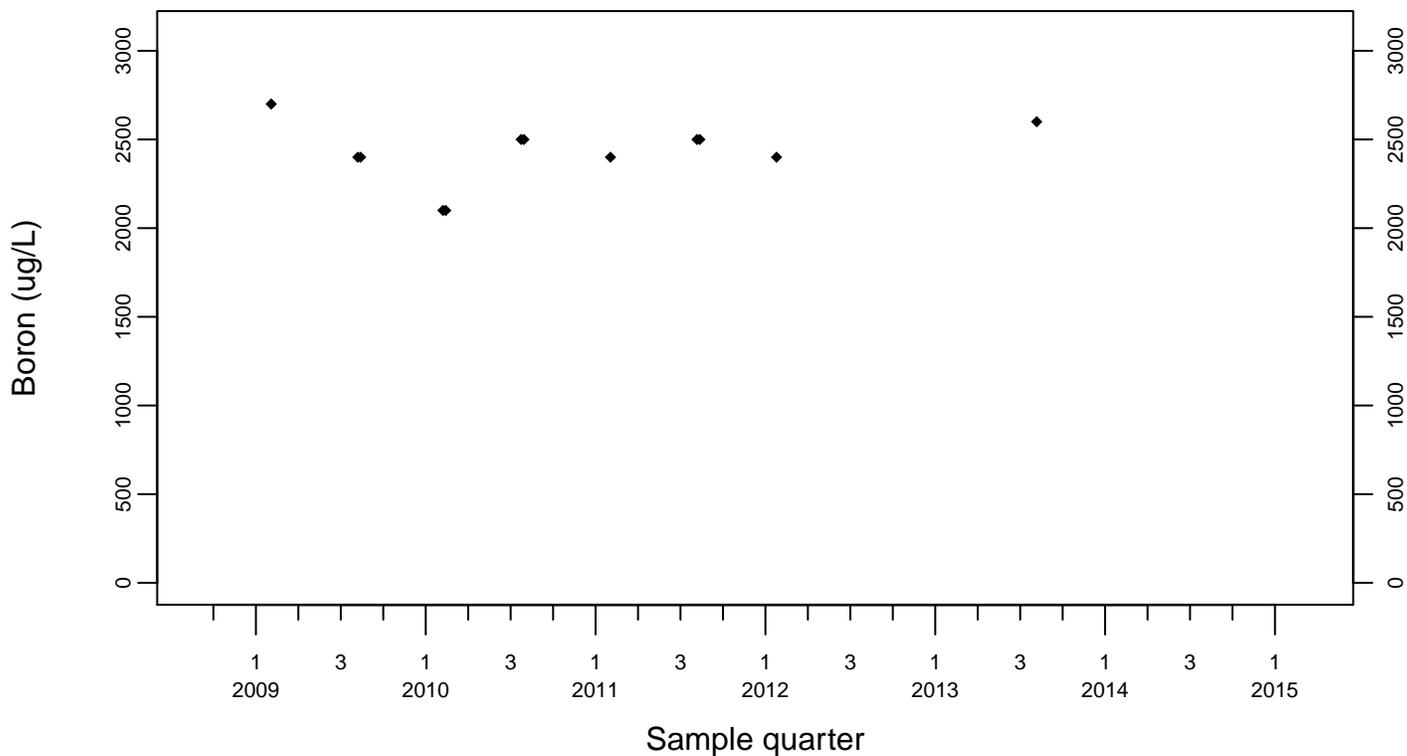
Sewage Ponds Ground Water
 Boron (ug/L)

Upgradient Monitor Well W-7ES

◆ Above RL
 ▼ Below RL



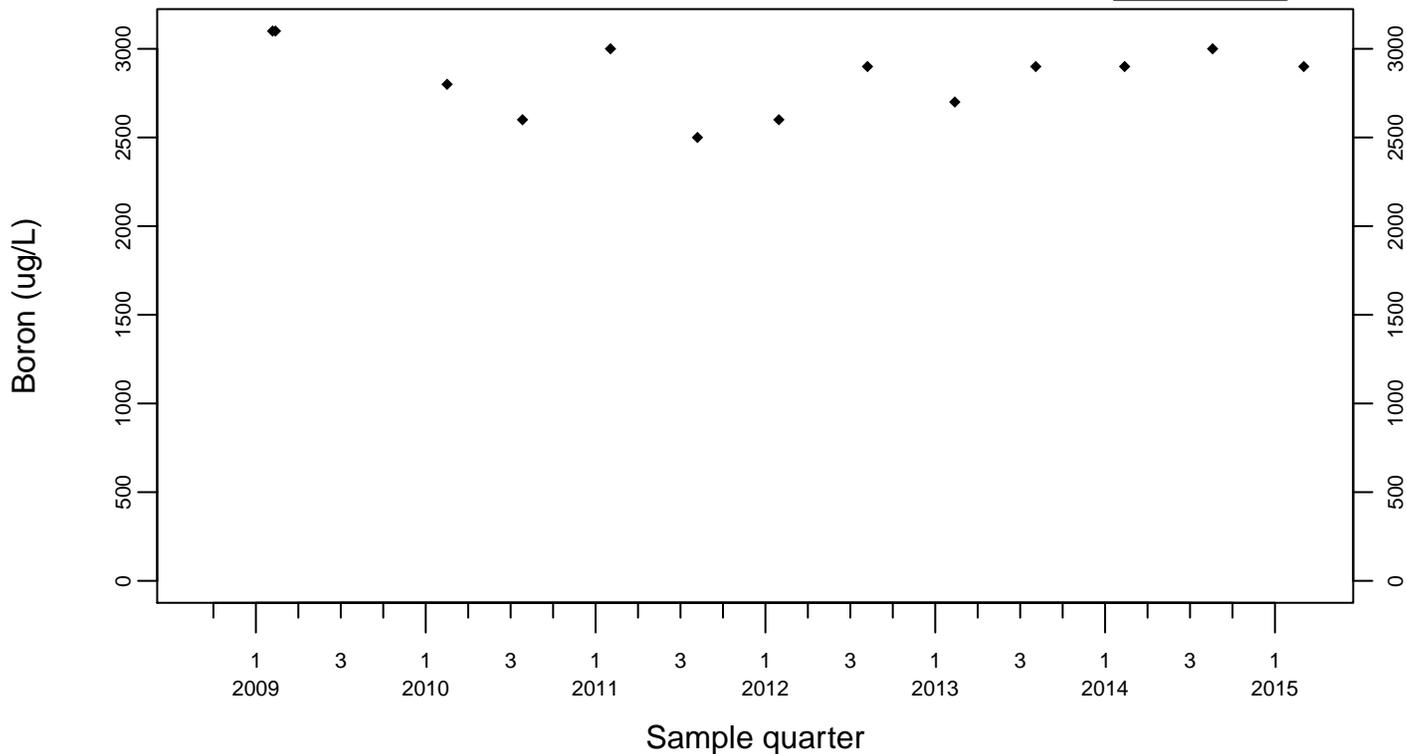
Upgradient Monitor Well W-7PS



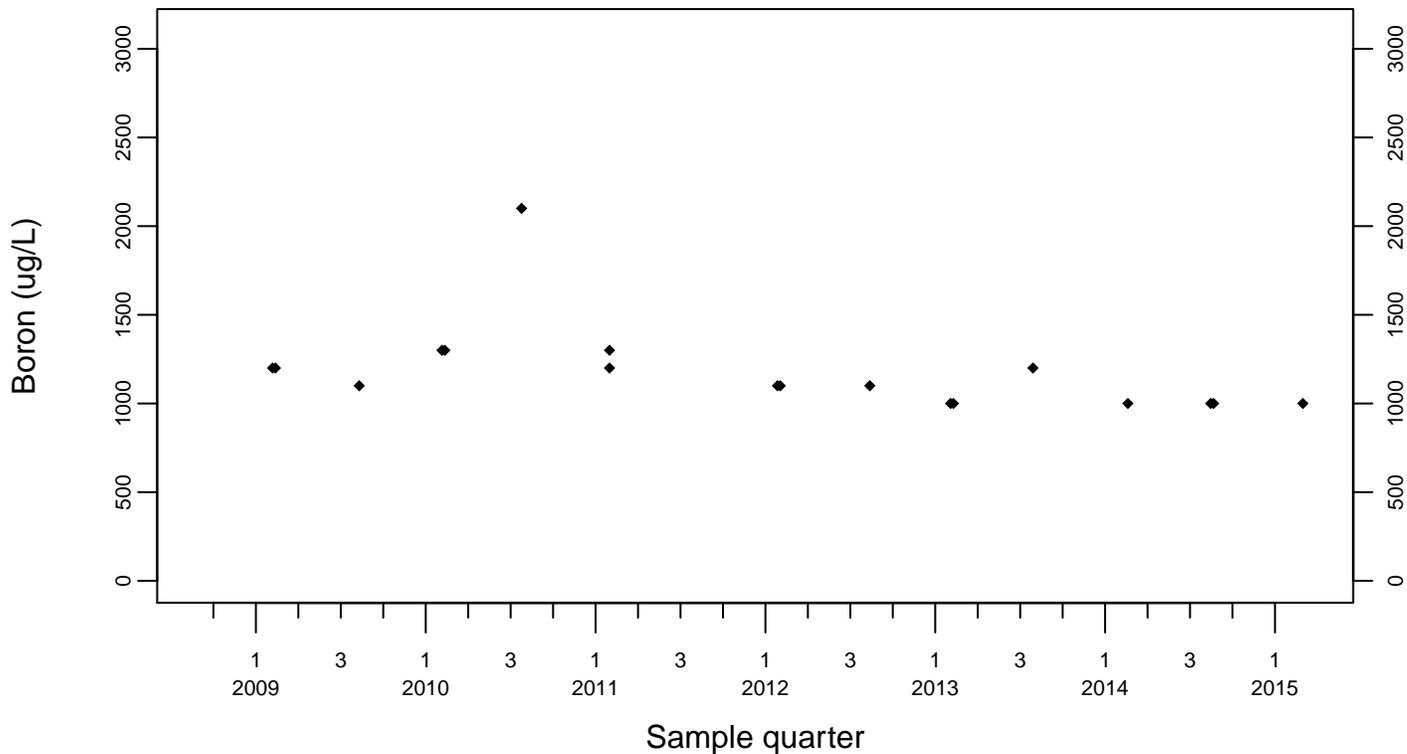
Sewage Ponds Ground Water Boron (ug/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



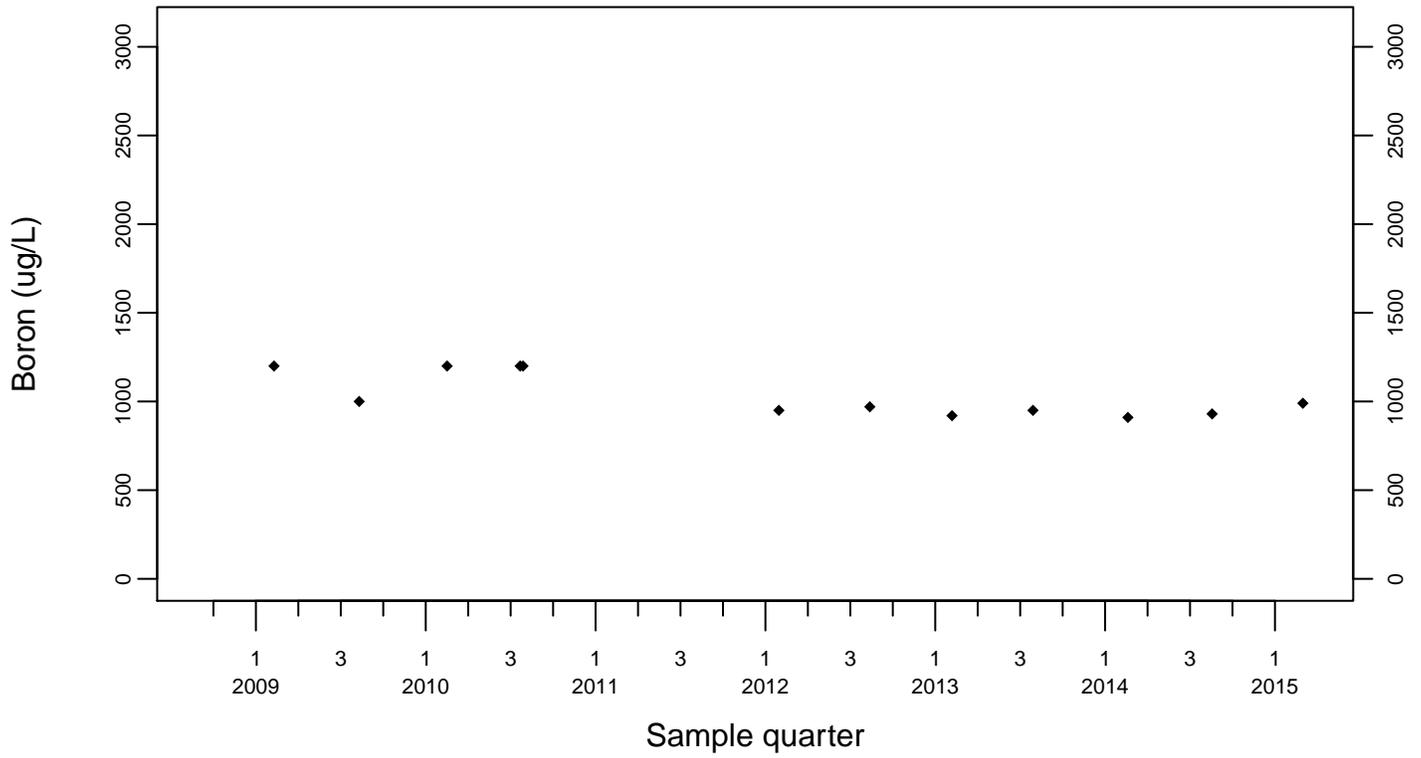
Downgradient Monitor Well W-25N-23



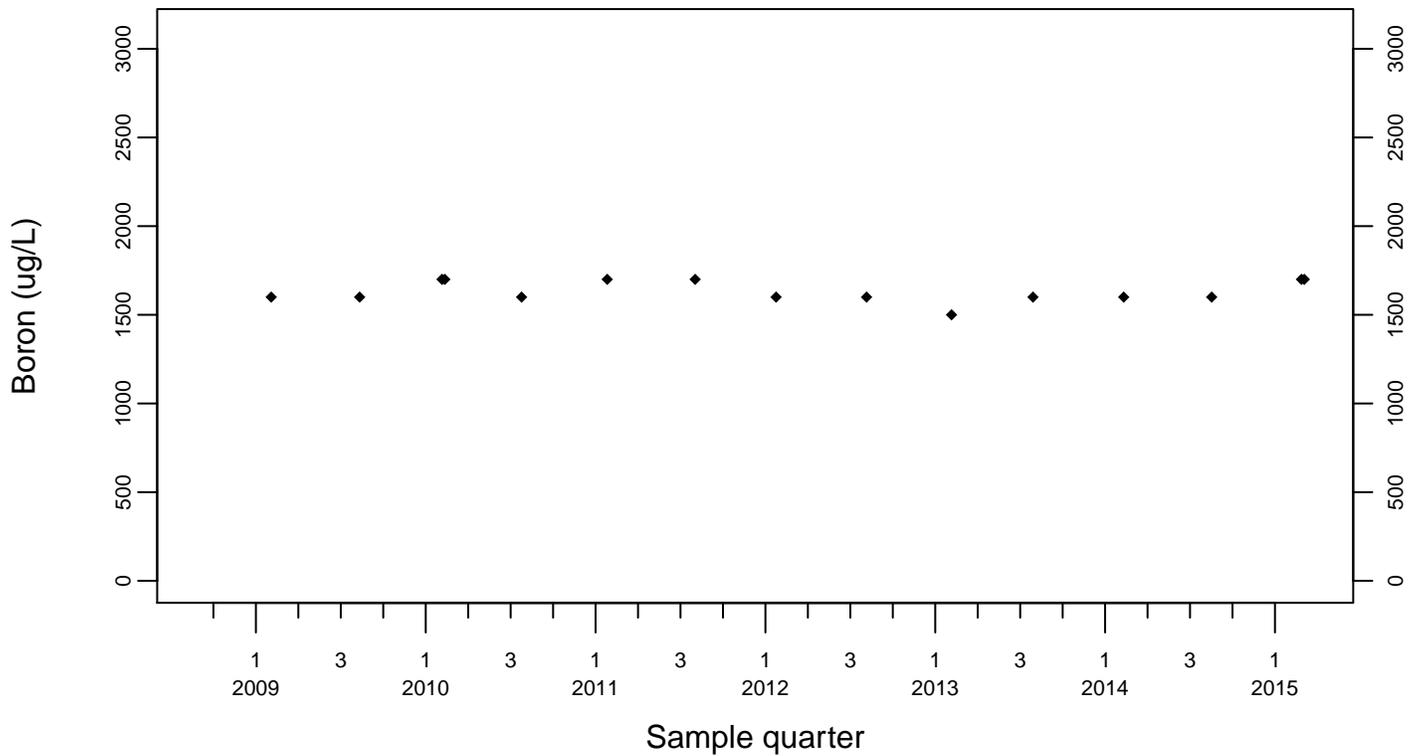
Sewage Ponds Ground Water Boron (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



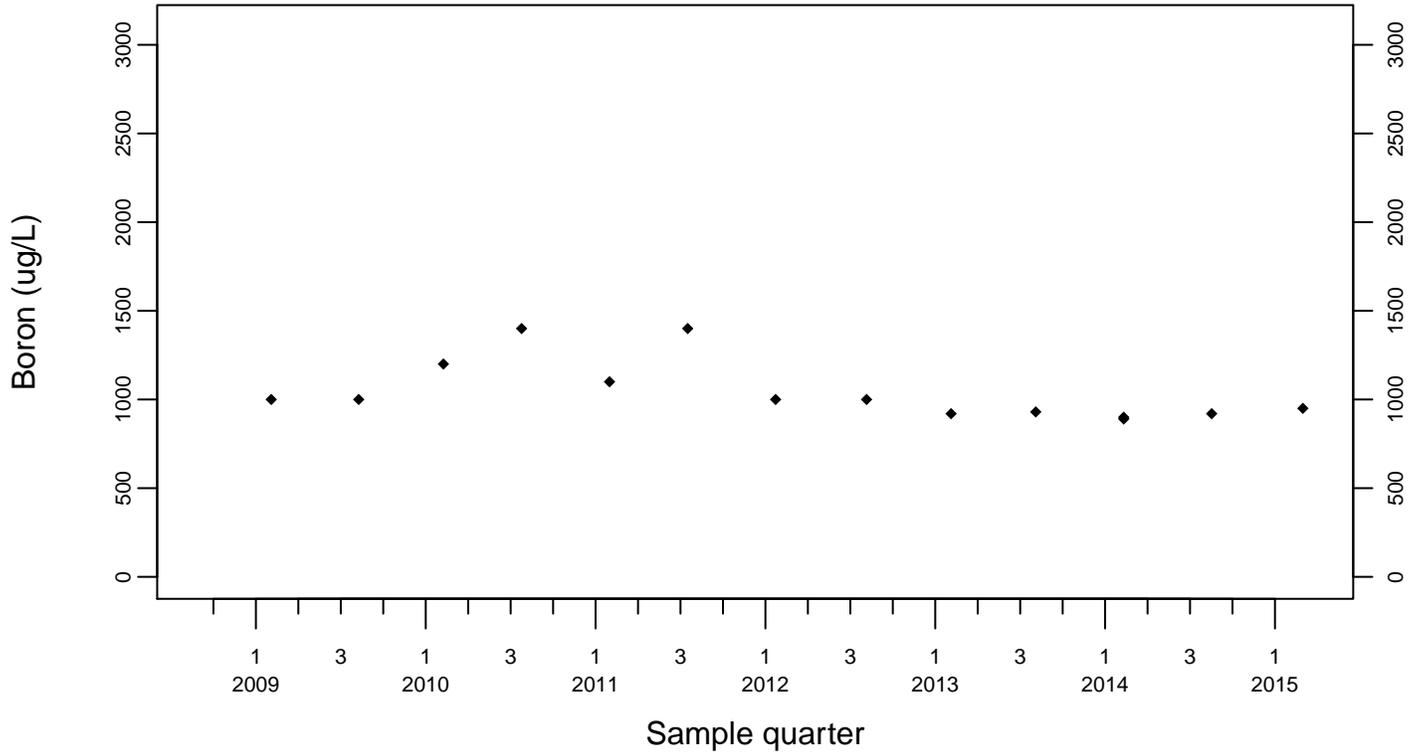
Downgradient Monitor Well W-26R-01



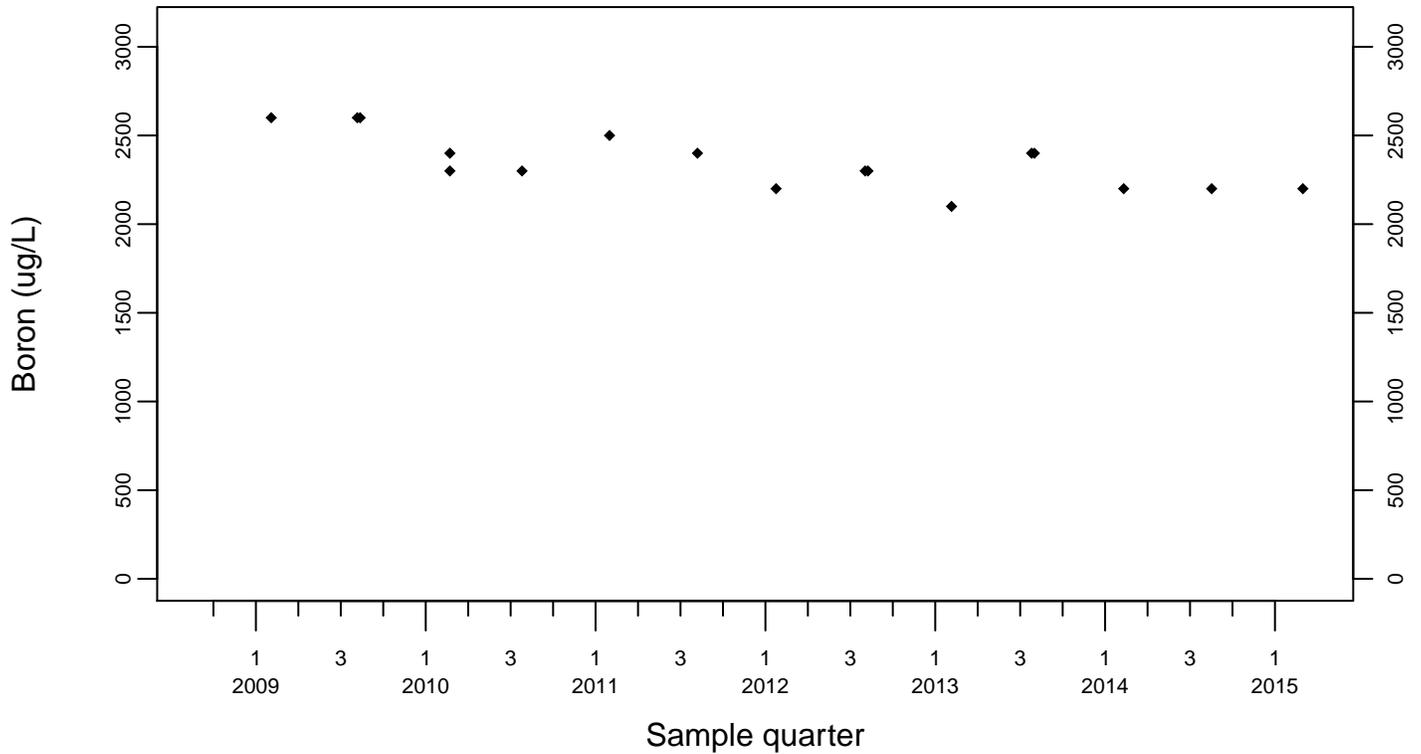
Sewage Ponds Ground Water Boron (ug/L)

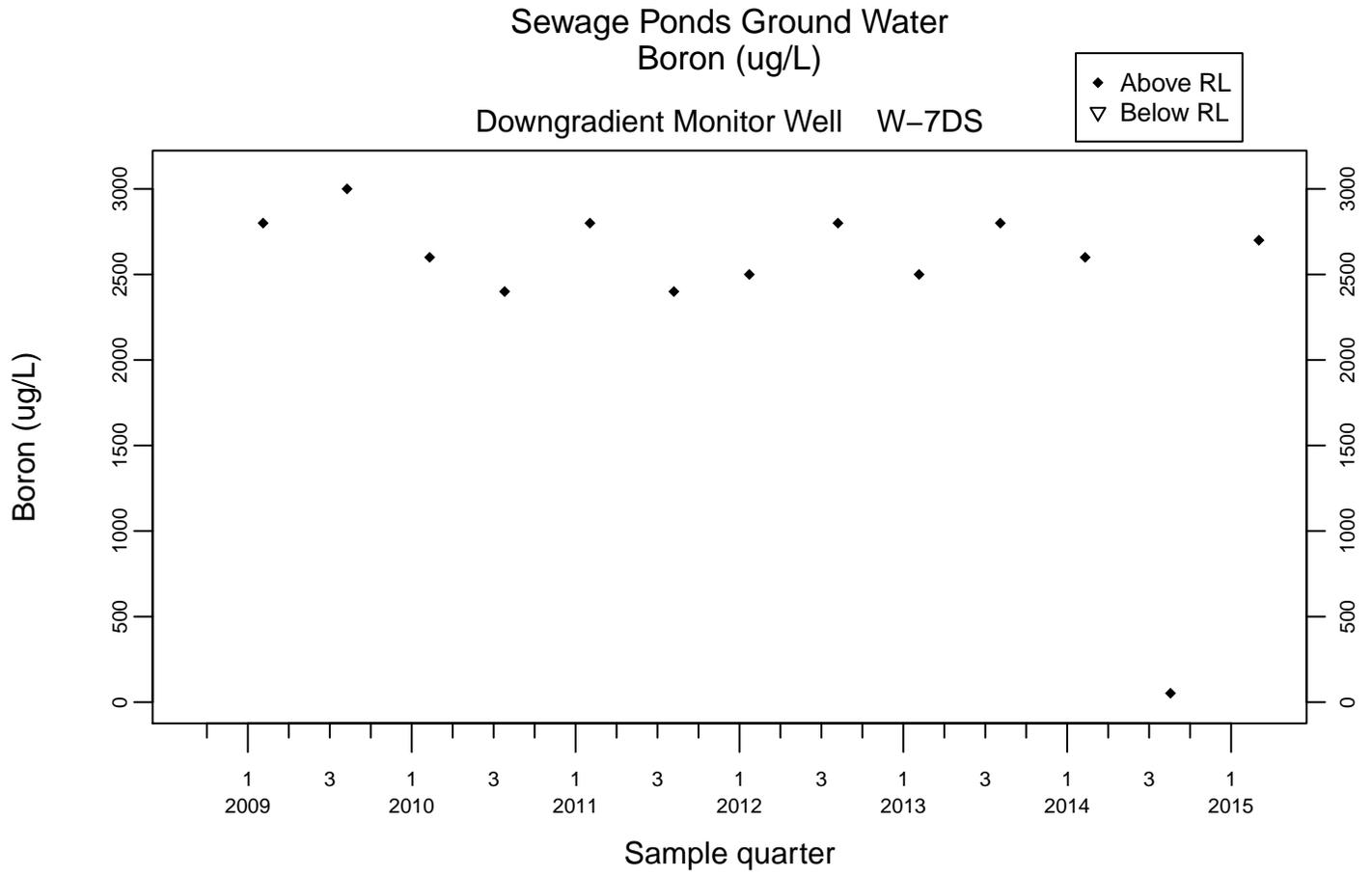
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

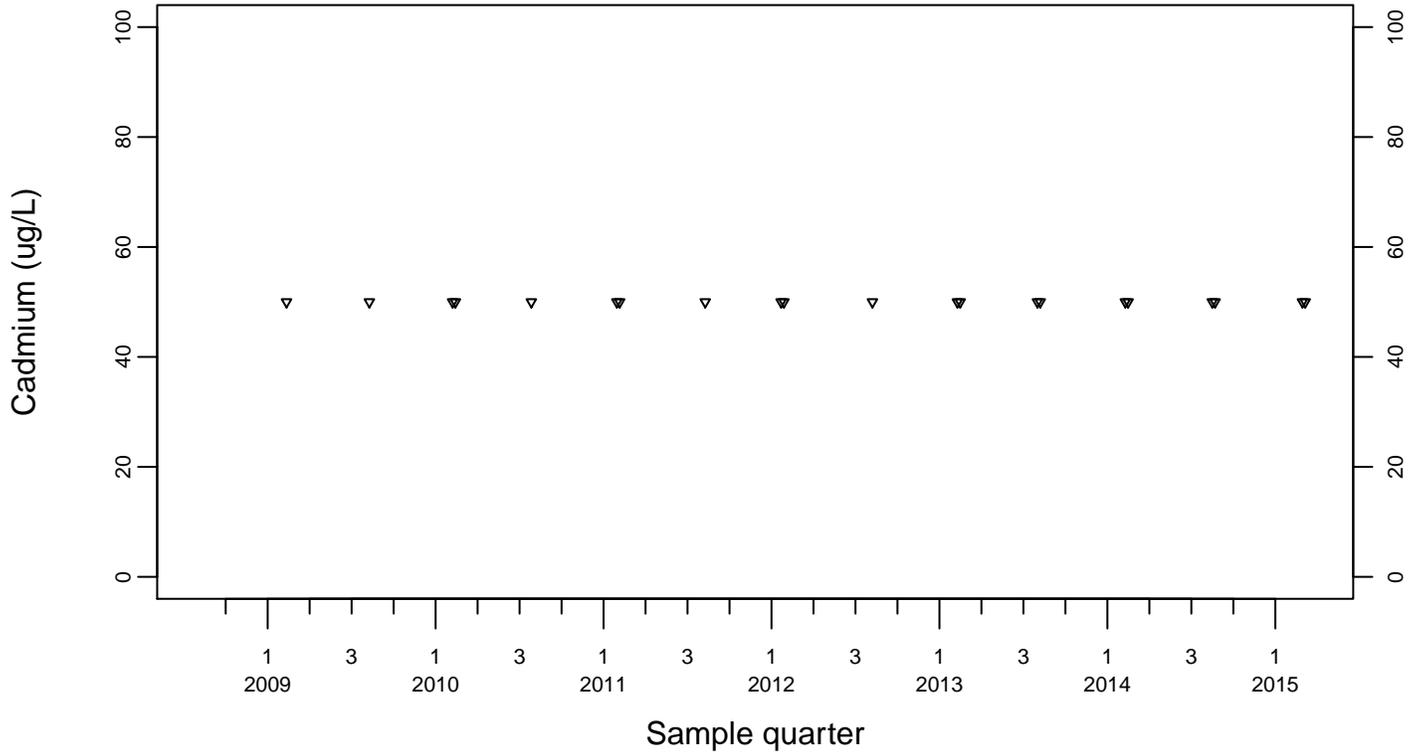




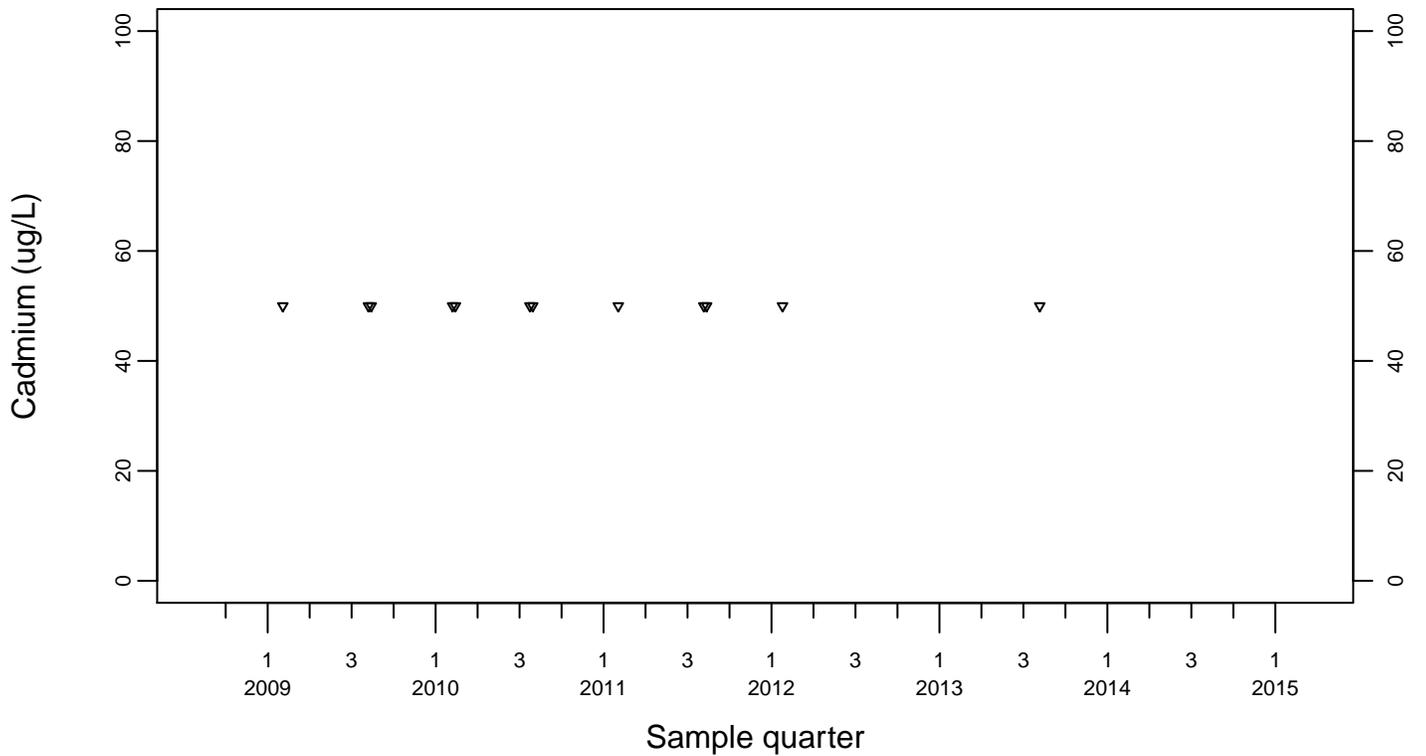
Sewage Ponds Ground Water Cadmium (ug/L)

Upgradient Monitor Well W-7ES

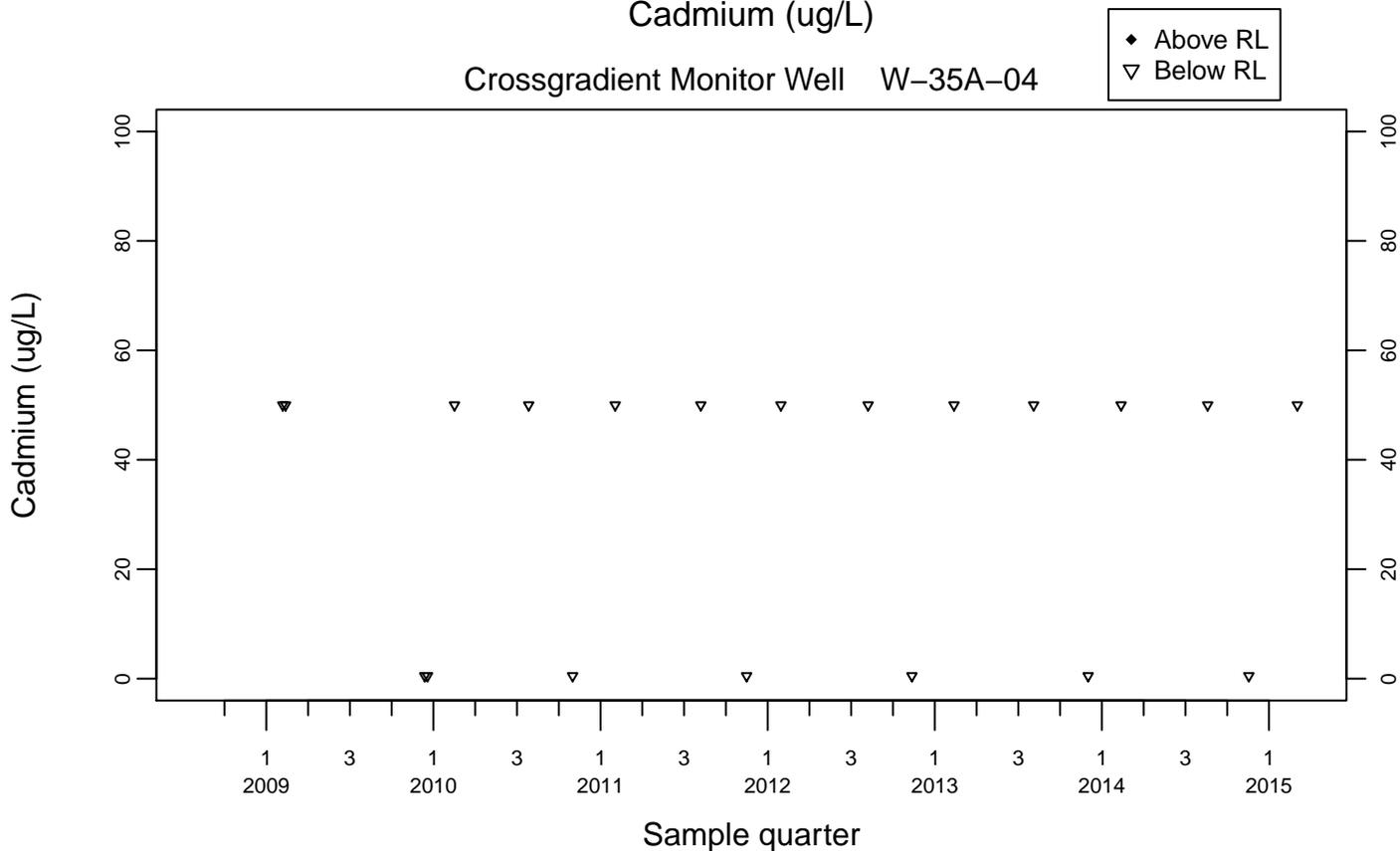
◆ Above RL
▽ Below RL



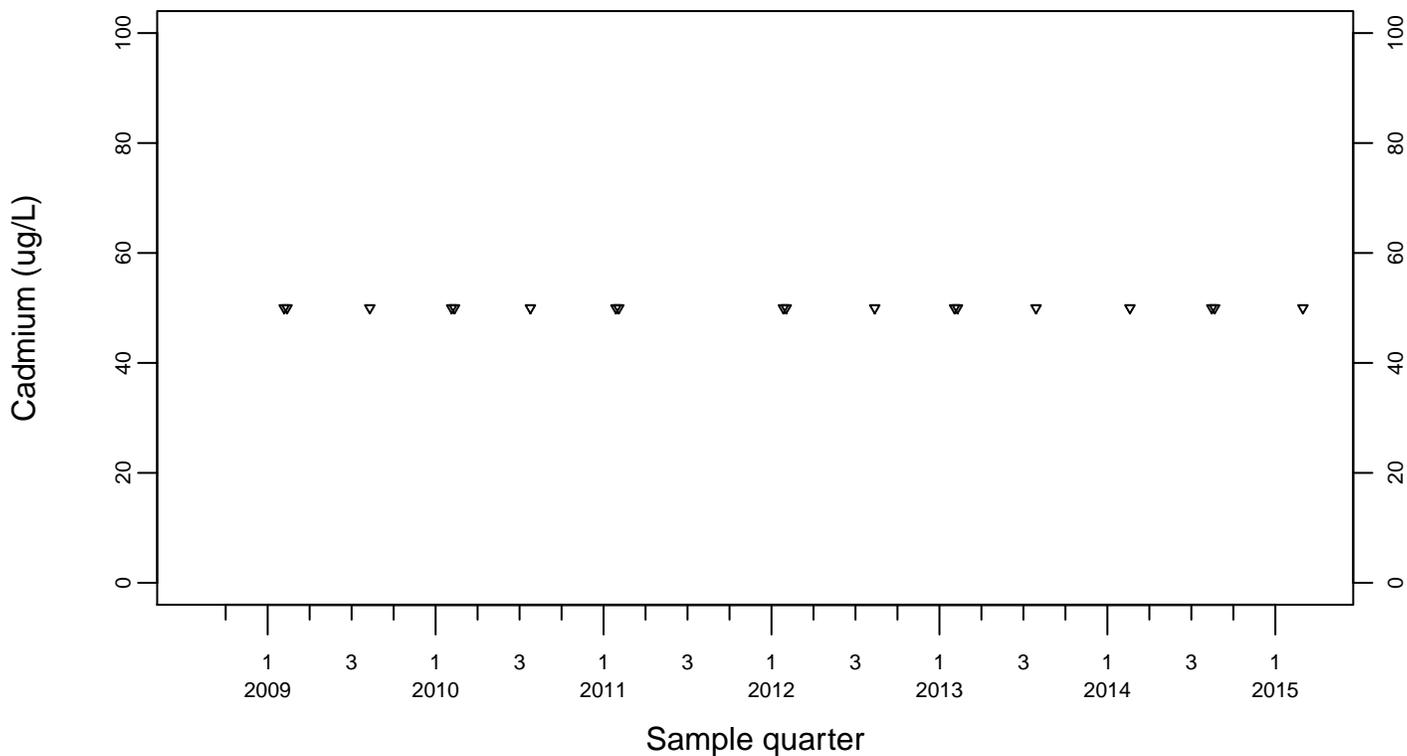
Upgradient Monitor Well W-7PS



Sewage Ponds Ground Water Cadmium (ug/L) Crossgradient Monitor Well W-35A-04

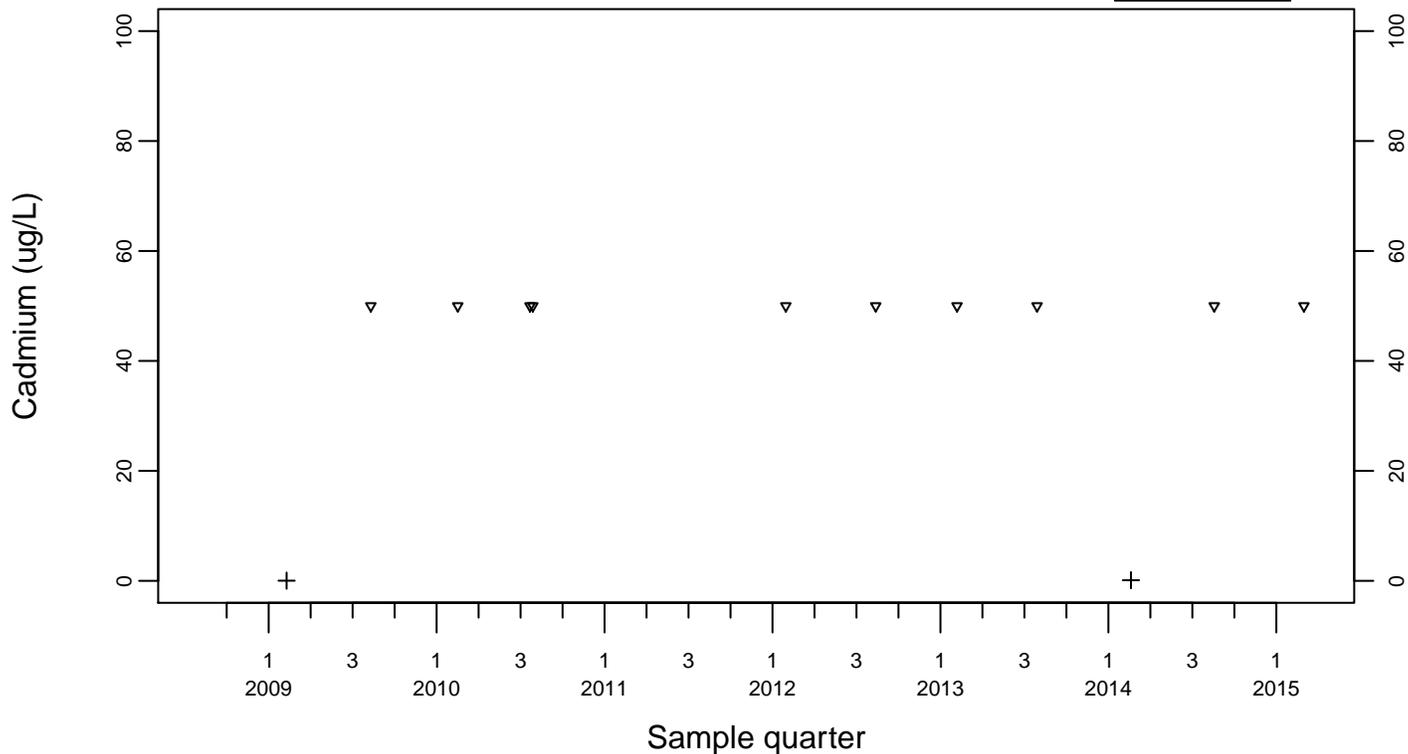


Downgradient Monitor Well W-25N-23

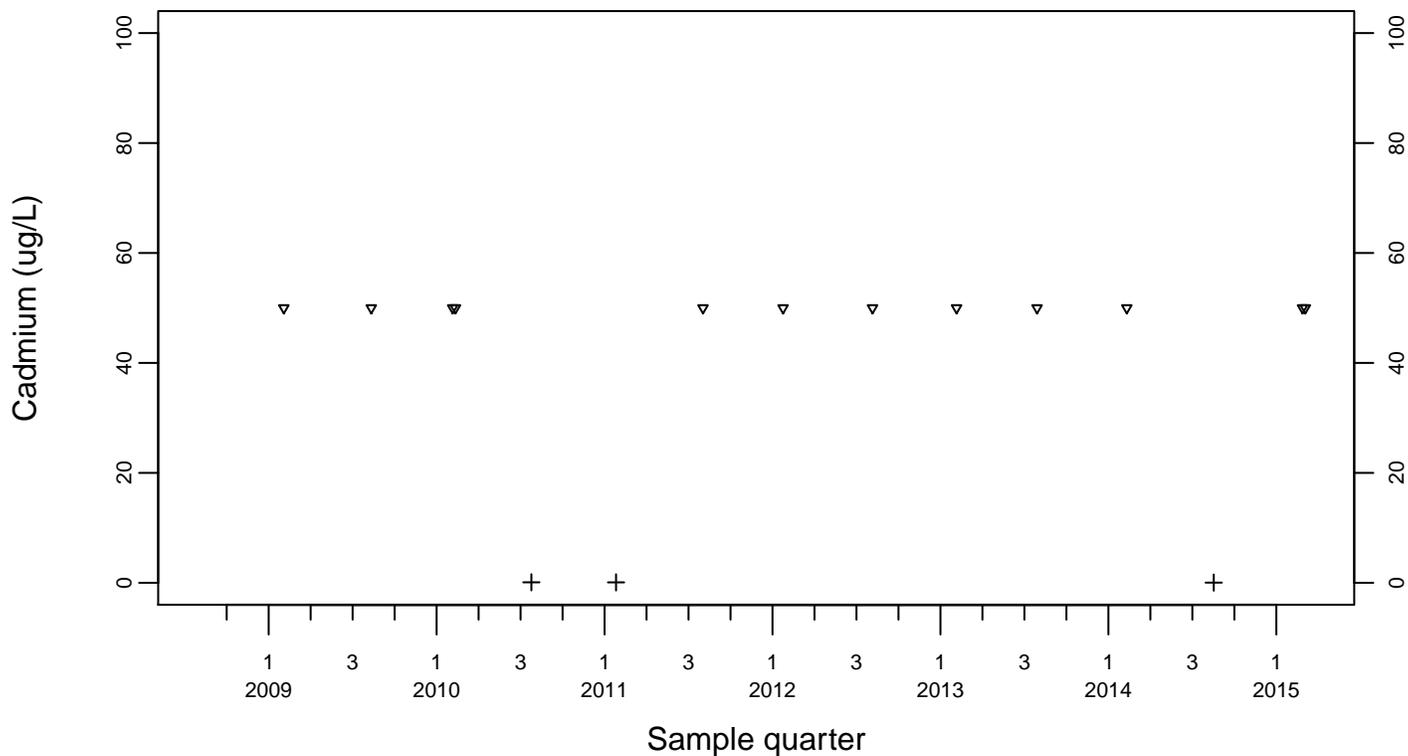


Sewage Ponds Ground Water Cadmium (ug/L) Downgradient Monitor Well W-25N-22

- ◆ Above RL
- ▽ Below RL
- + Estimated



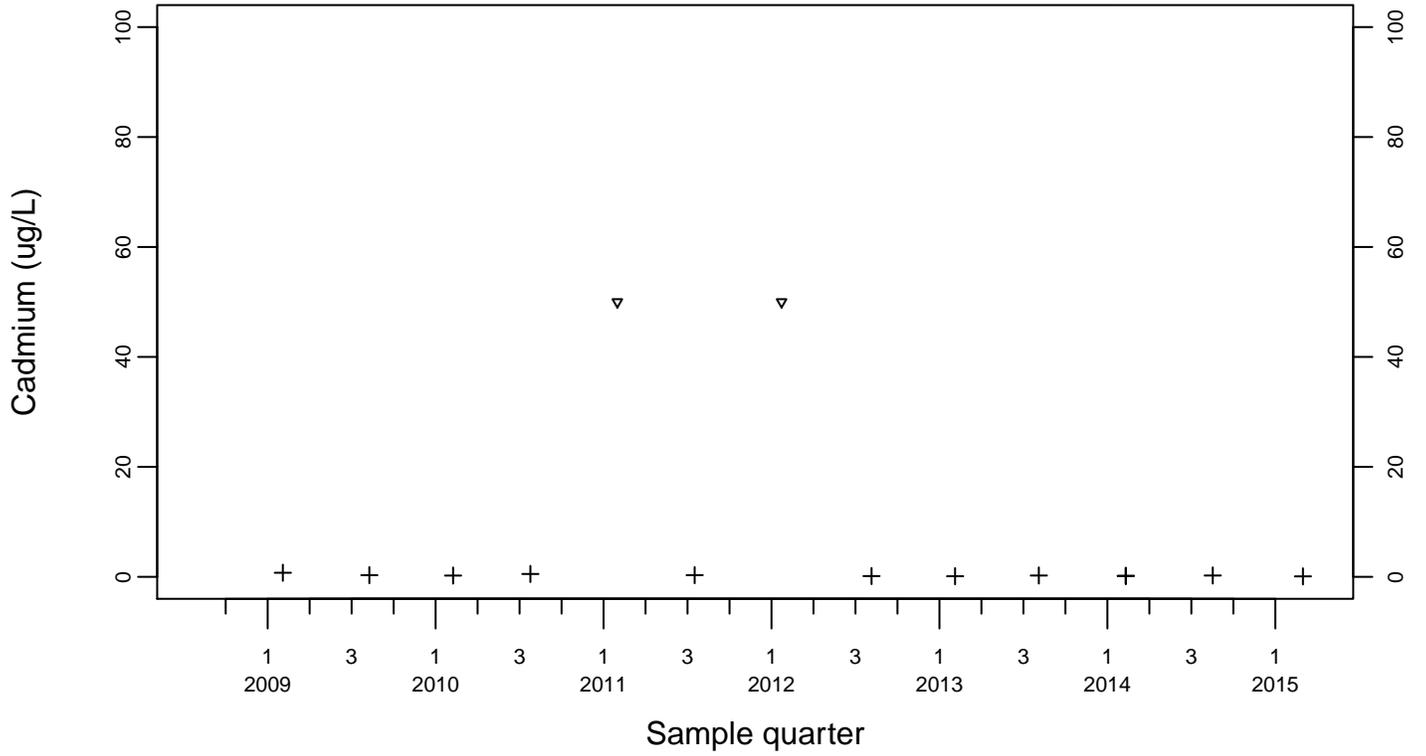
Downgradient Monitor Well W-26R-01



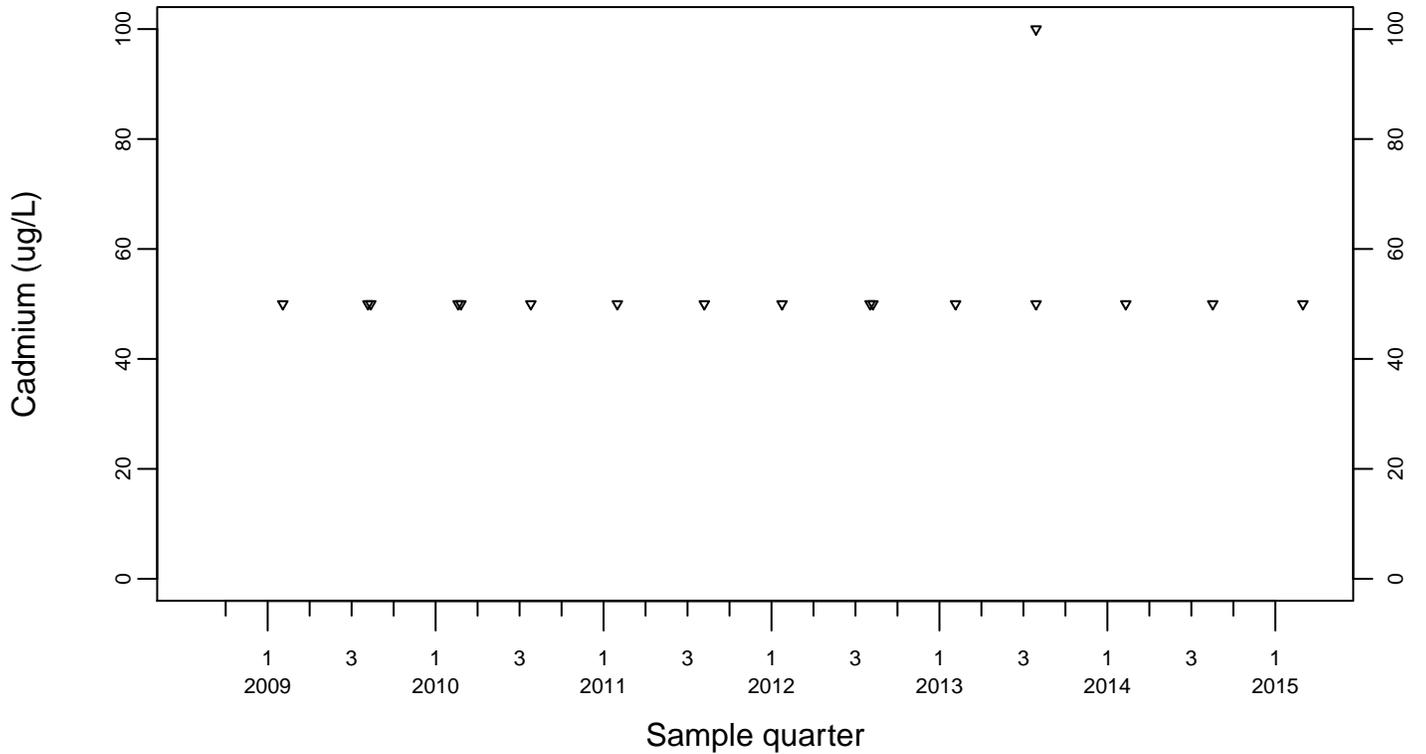
Sewage Ponds Ground Water Cadmium (ug/L)

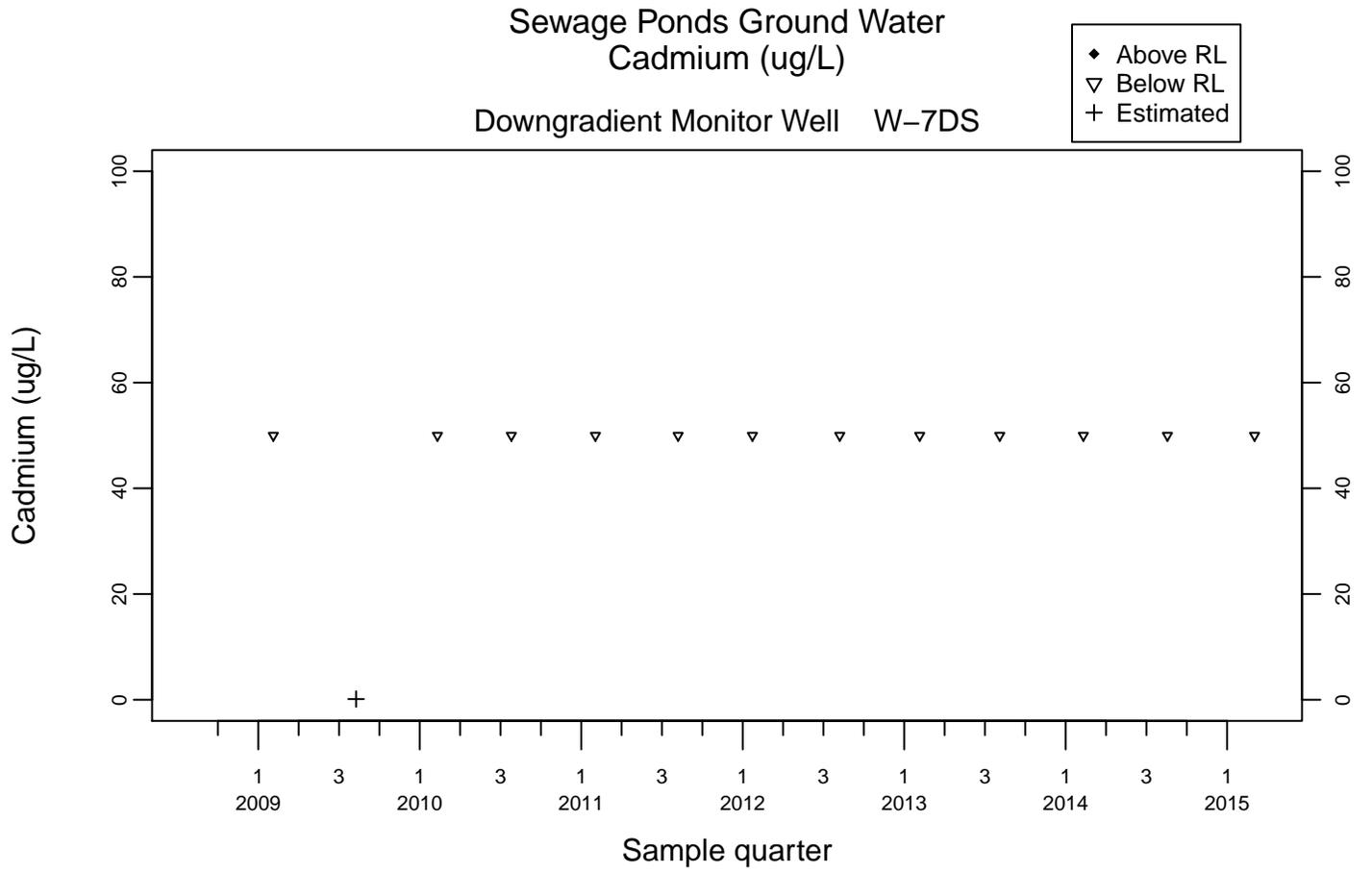
Downgradient Monitor Well W-26R-05

- ◆ Above RL
- ▽ Below RL
- + Estimated



Downgradient Monitor Well W-26R-11

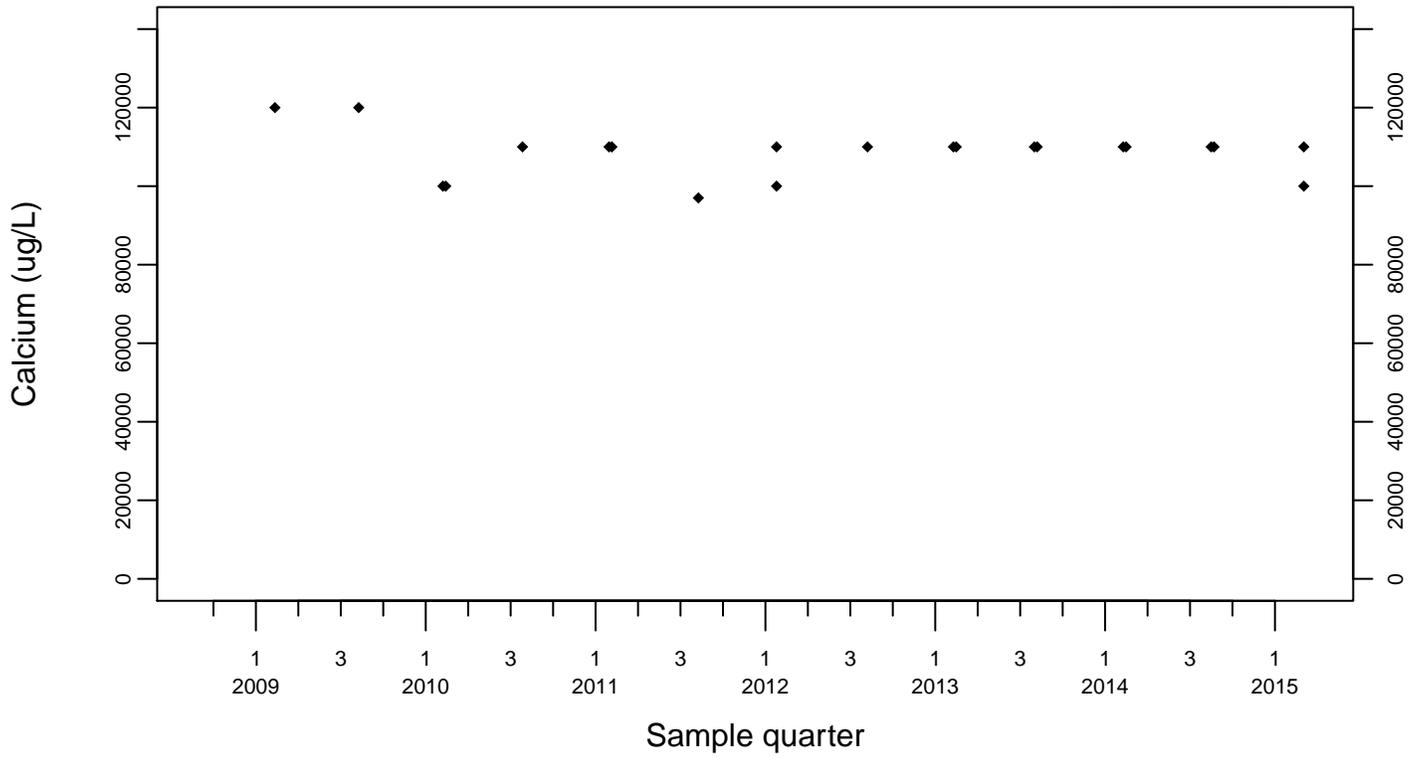




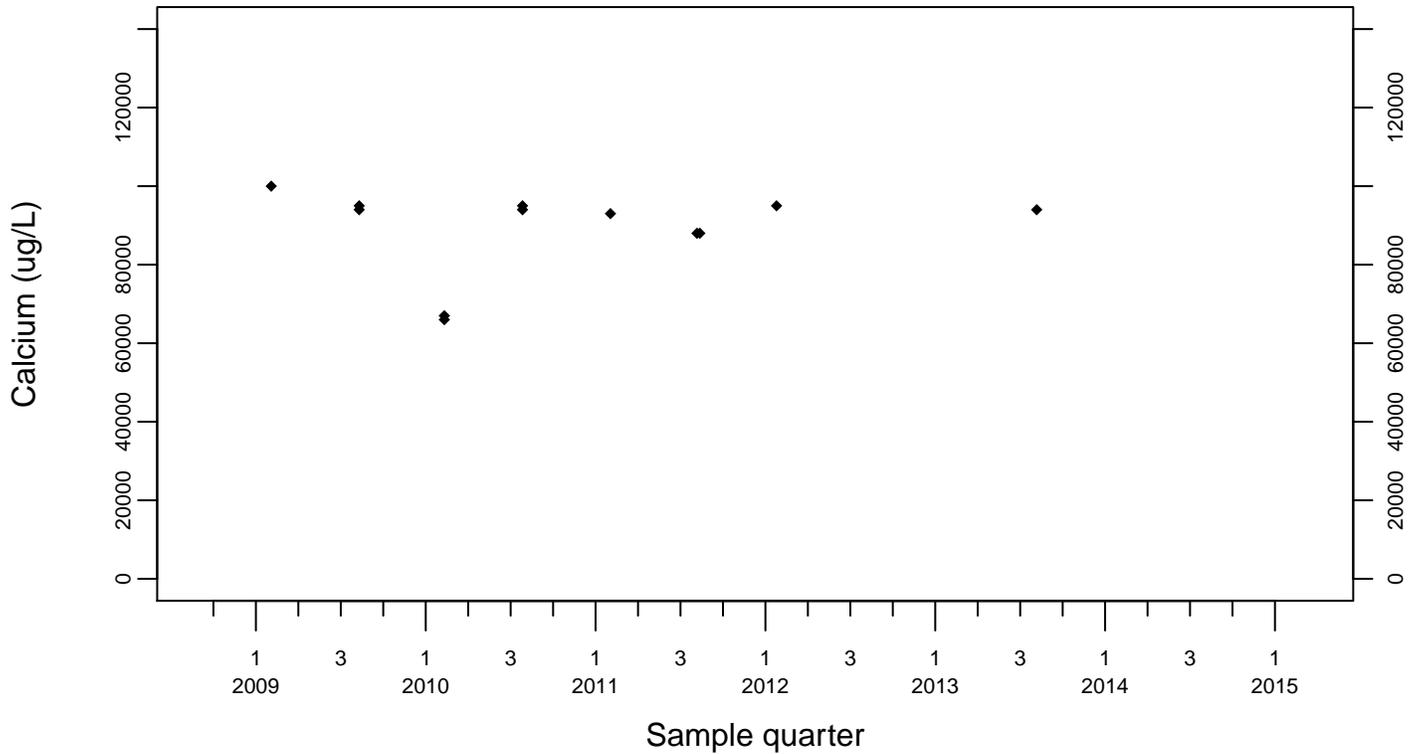
Sewage Ponds Ground Water Calcium (ug/L)

Upgradient Monitor Well W-7ES

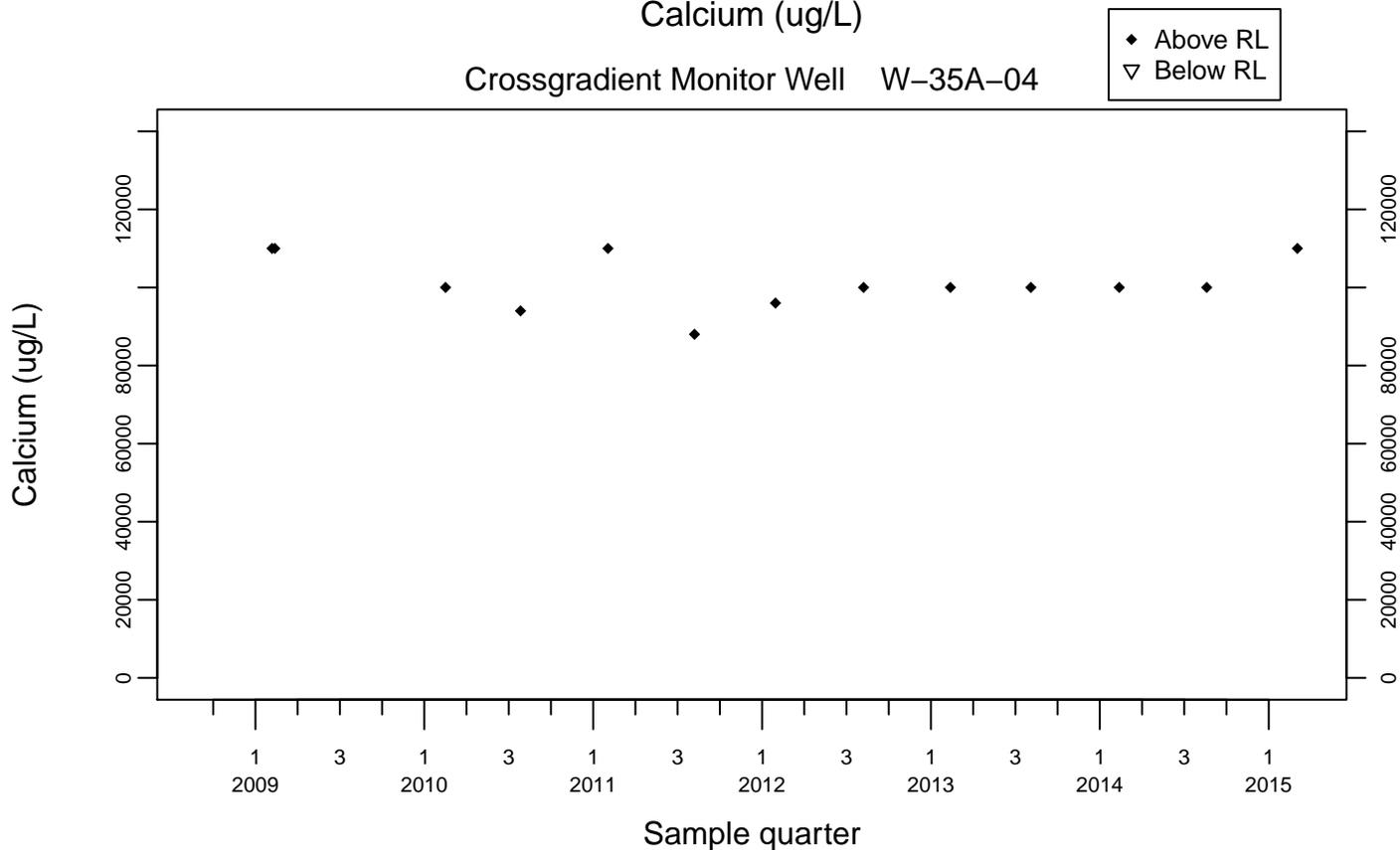
◆ Above RL
▽ Below RL



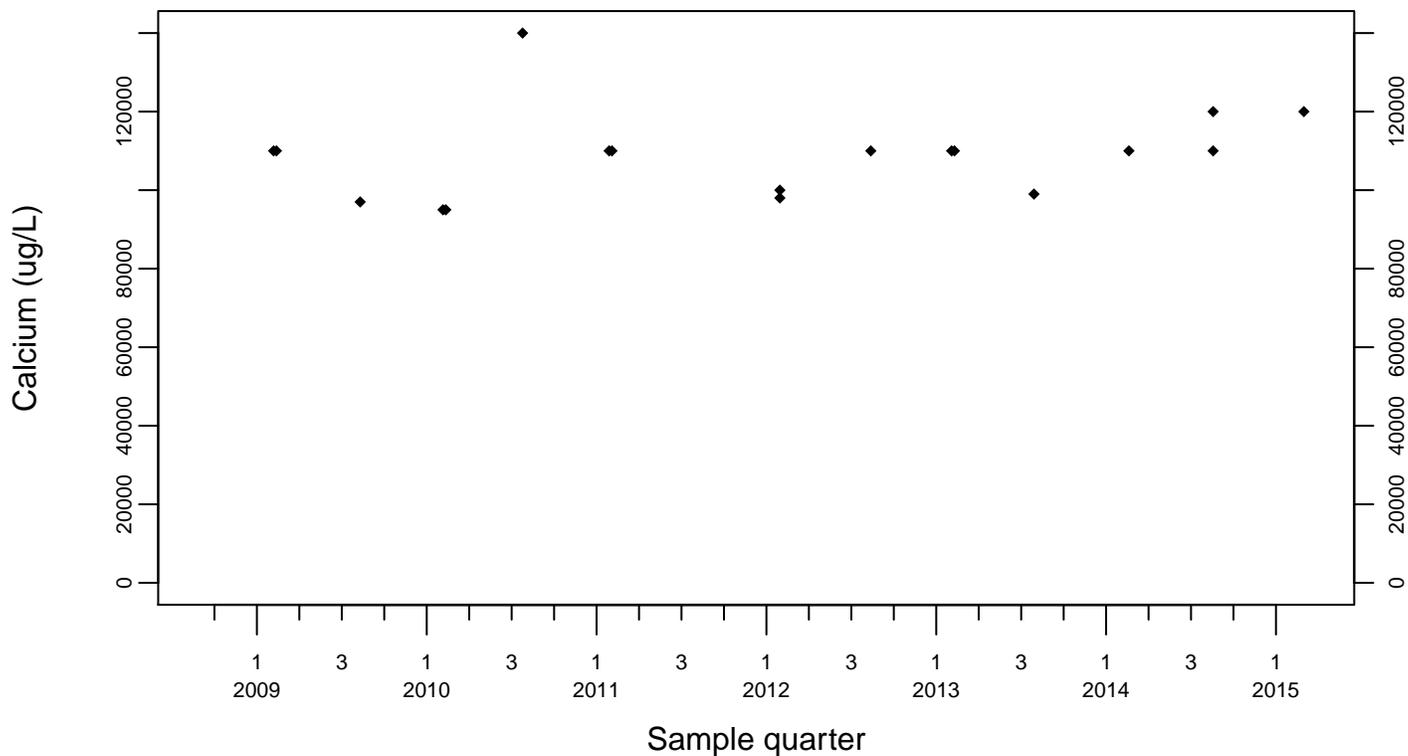
Upgradient Monitor Well W-7PS



Sewage Ponds Ground Water Calcium (ug/L) Crossgradient Monitor Well W-35A-04



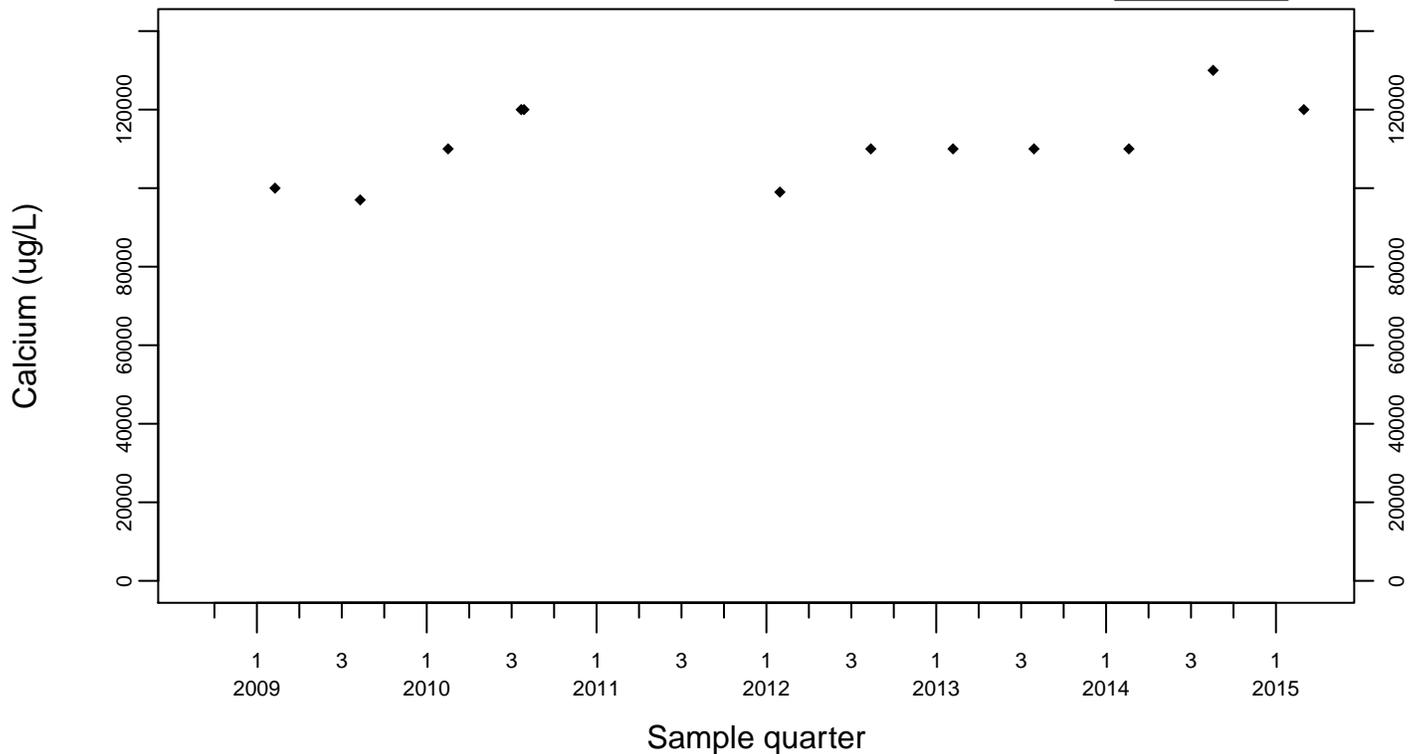
Downgradient Monitor Well W-25N-23



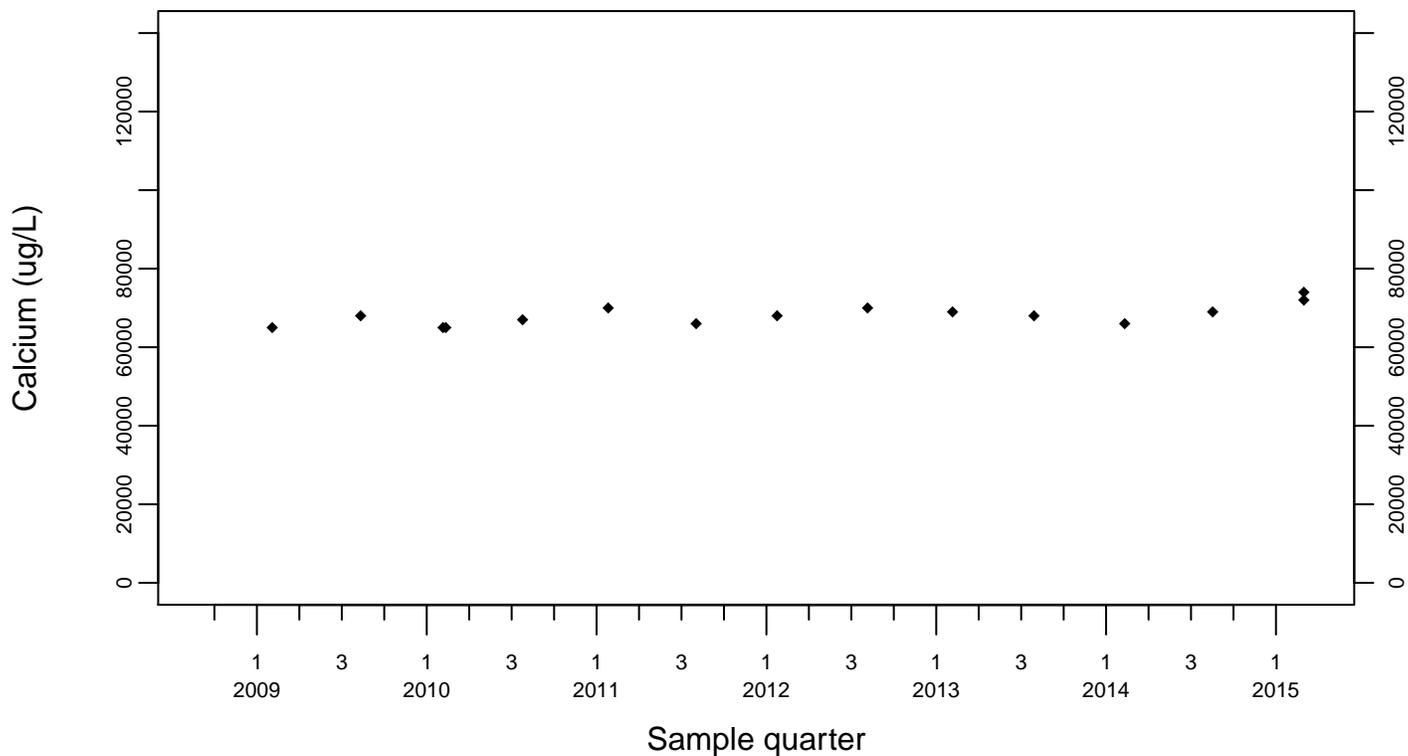
Sewage Ponds Ground Water Calcium (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
 ▼ Below RL



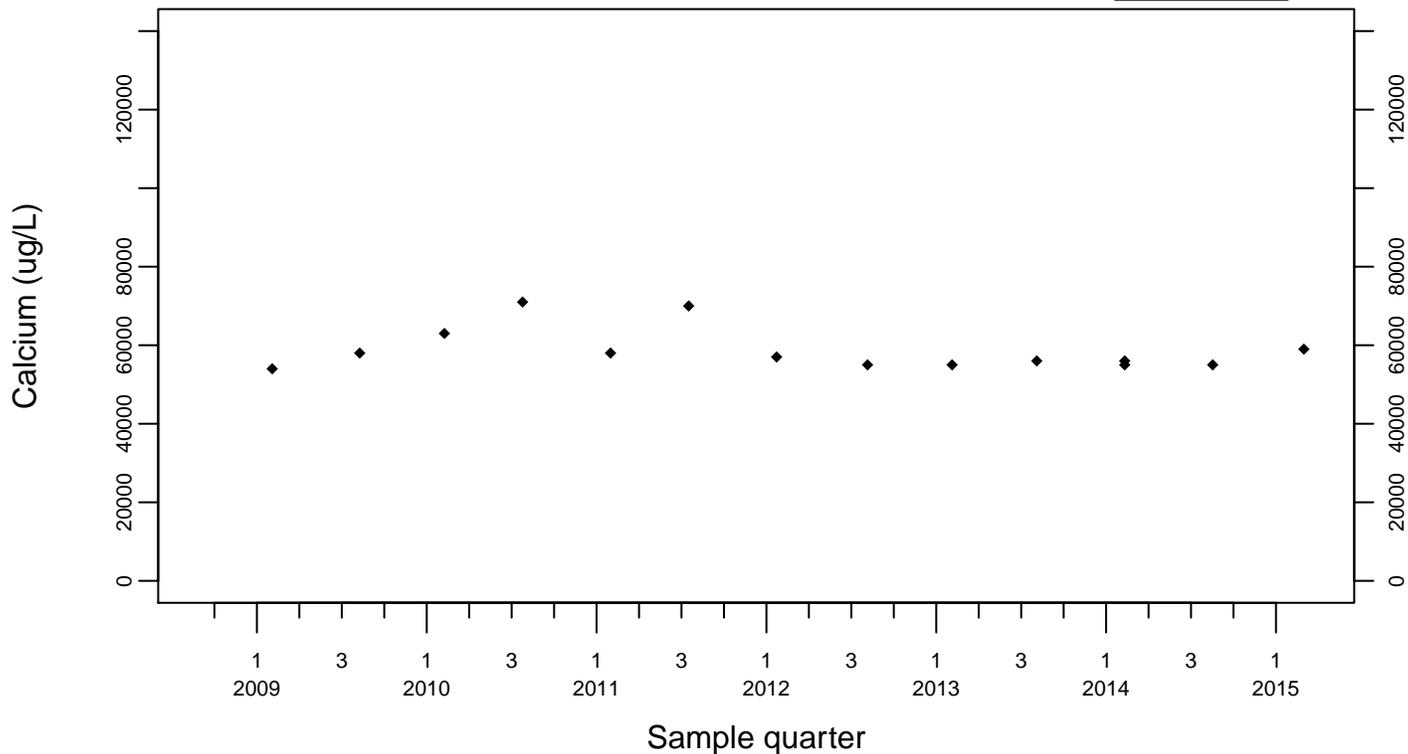
Downgradient Monitor Well W-26R-01



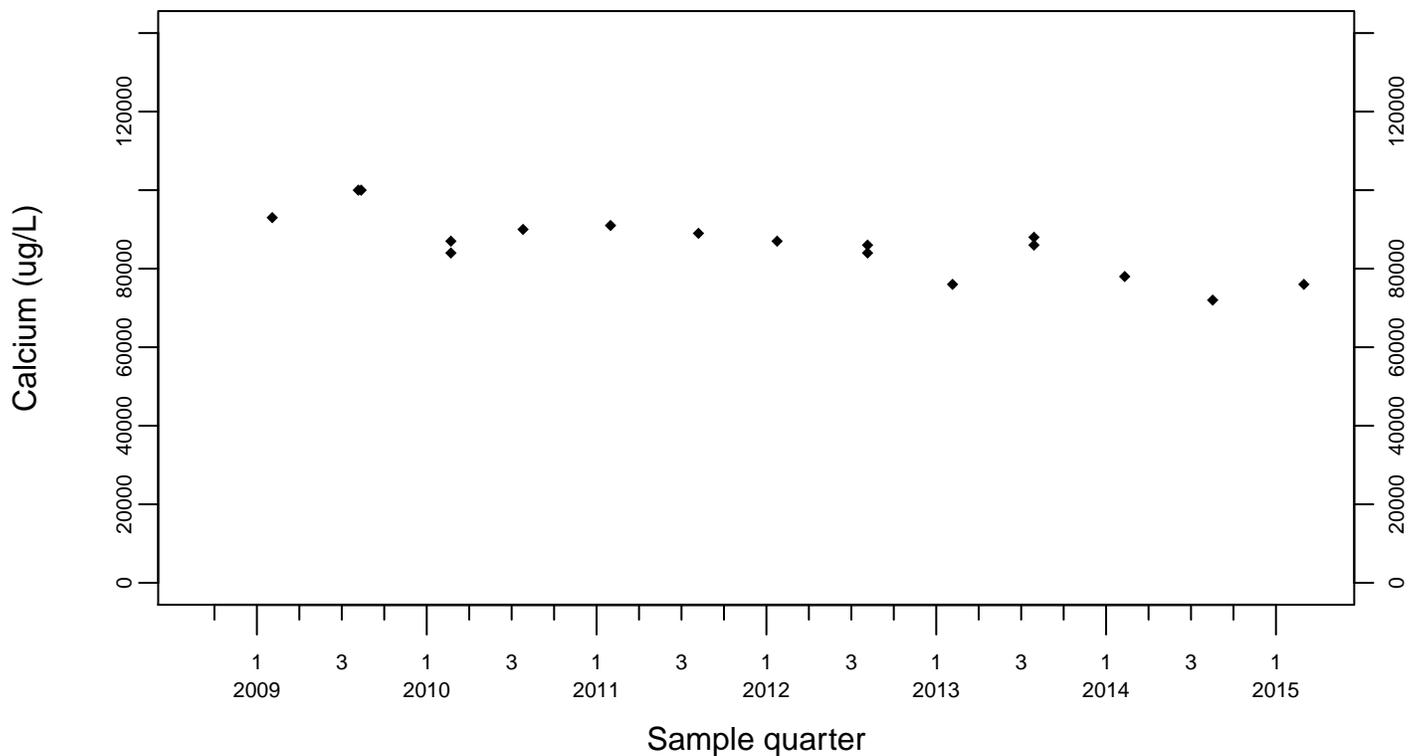
Sewage Ponds Ground Water Calcium (ug/L)

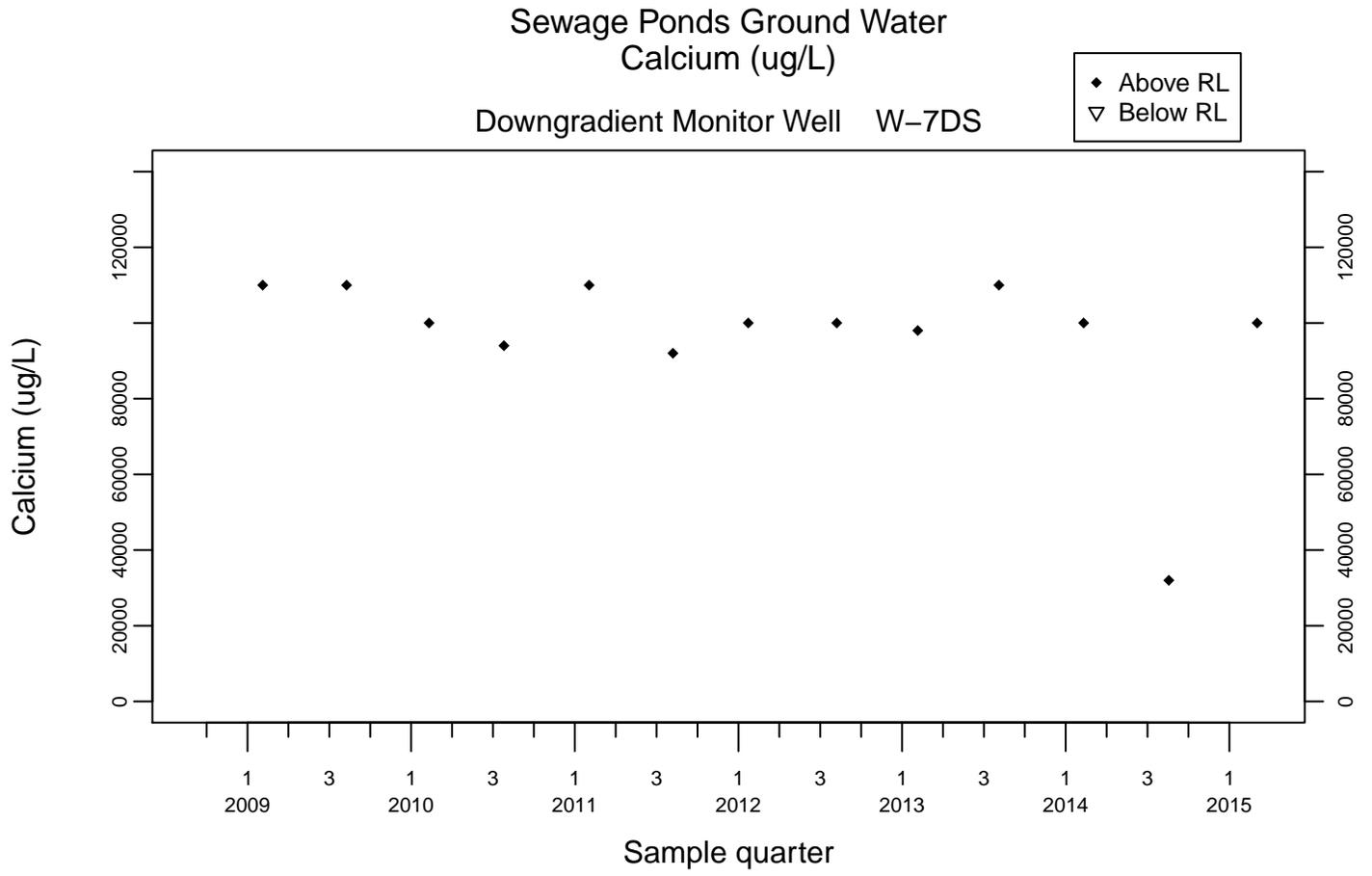
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

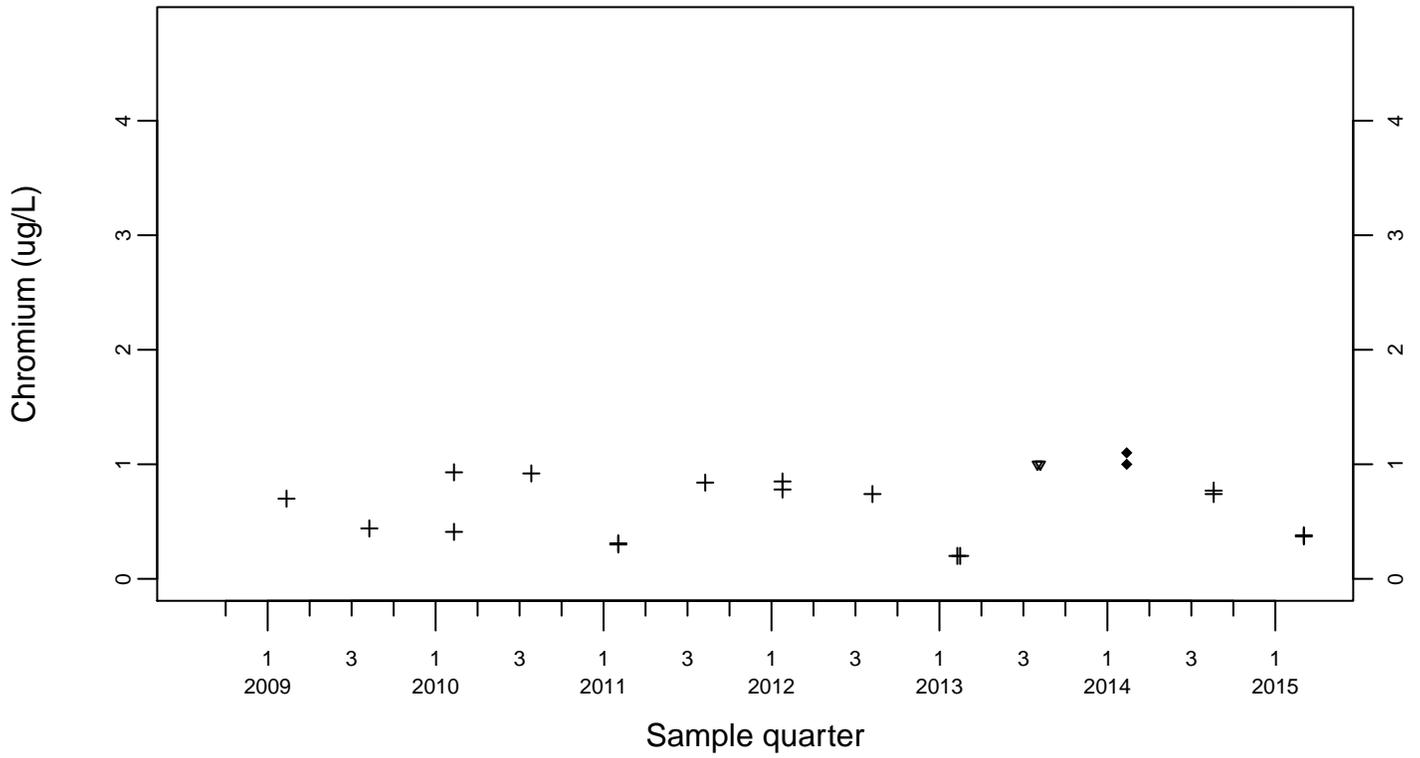




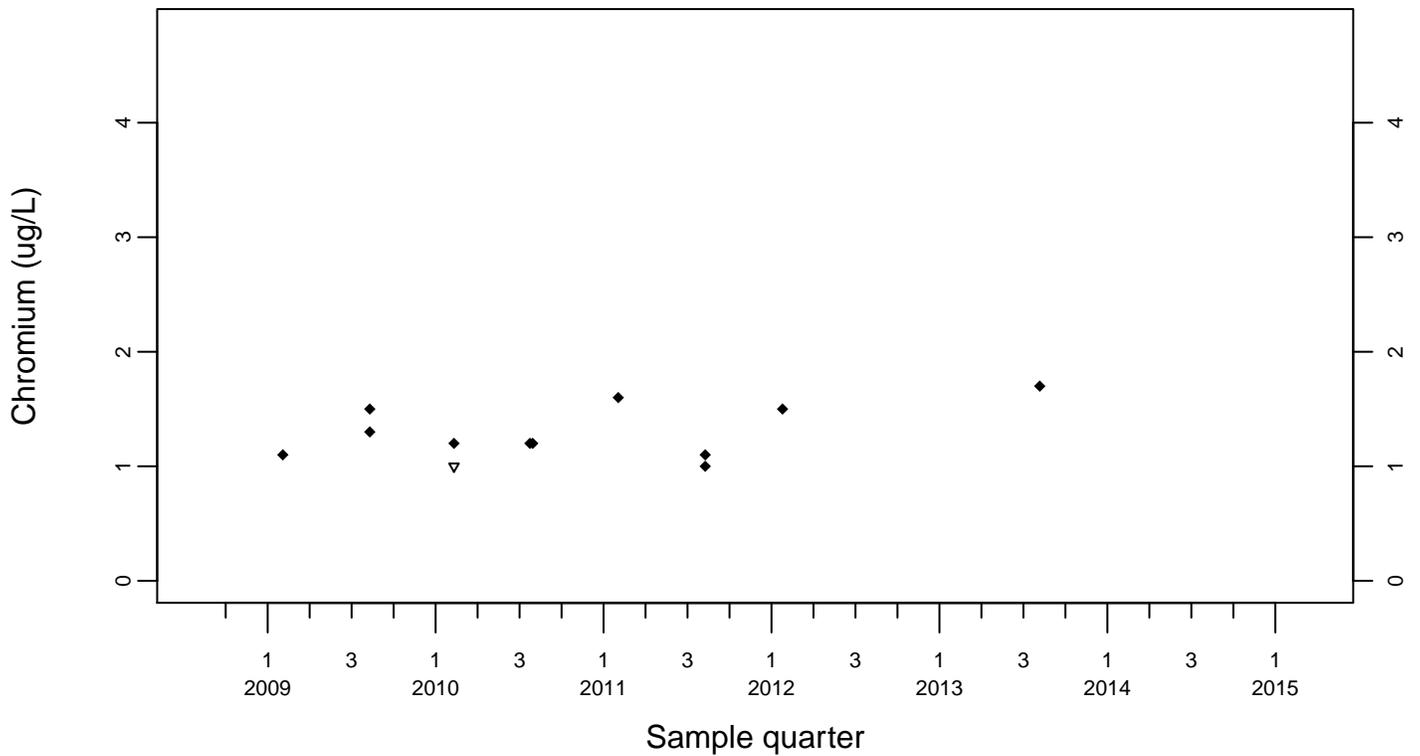
Sewage Ponds Ground Water Chromium (ug/L)

Upgradient Monitor Well W-7ES

- ◆ Above RL
- ▽ Below RL
- + Estimated



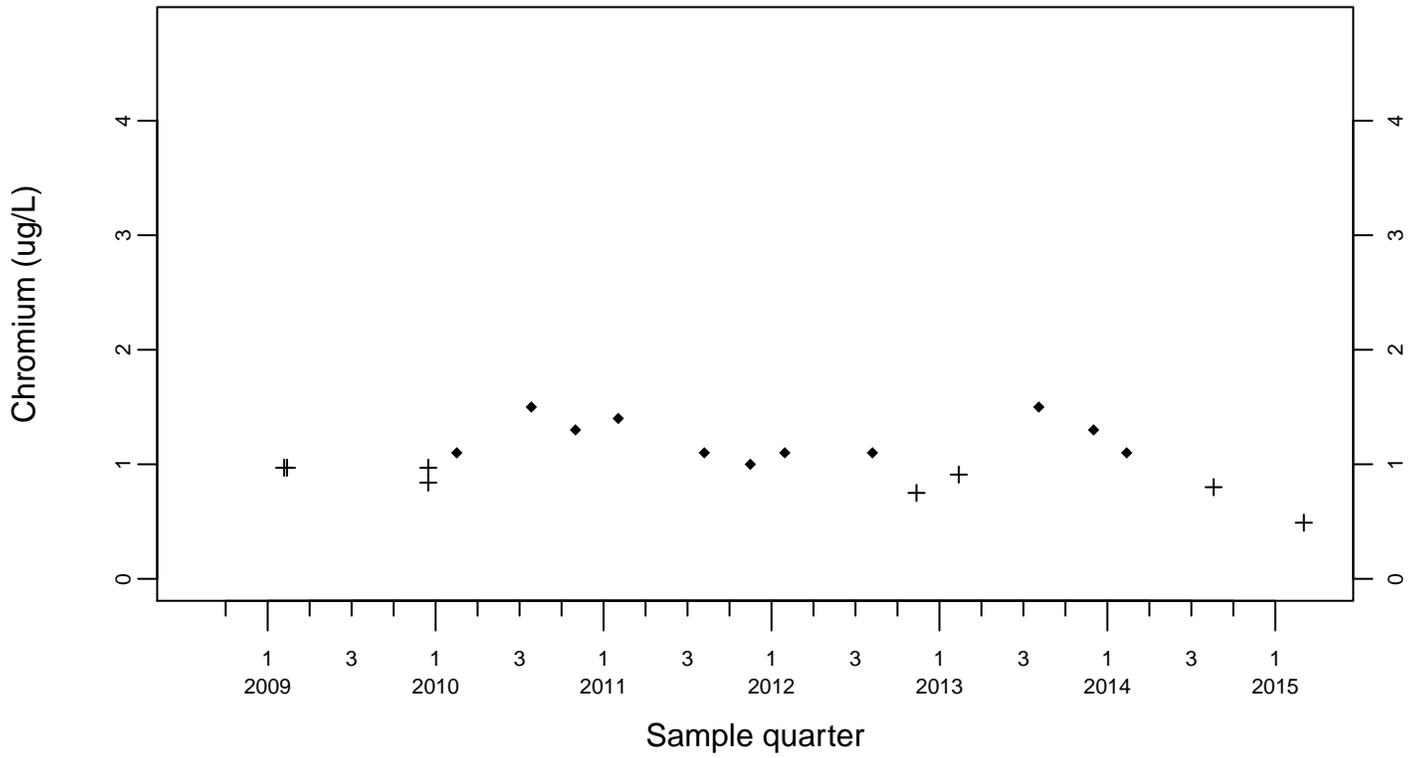
Upgradient Monitor Well W-7PS



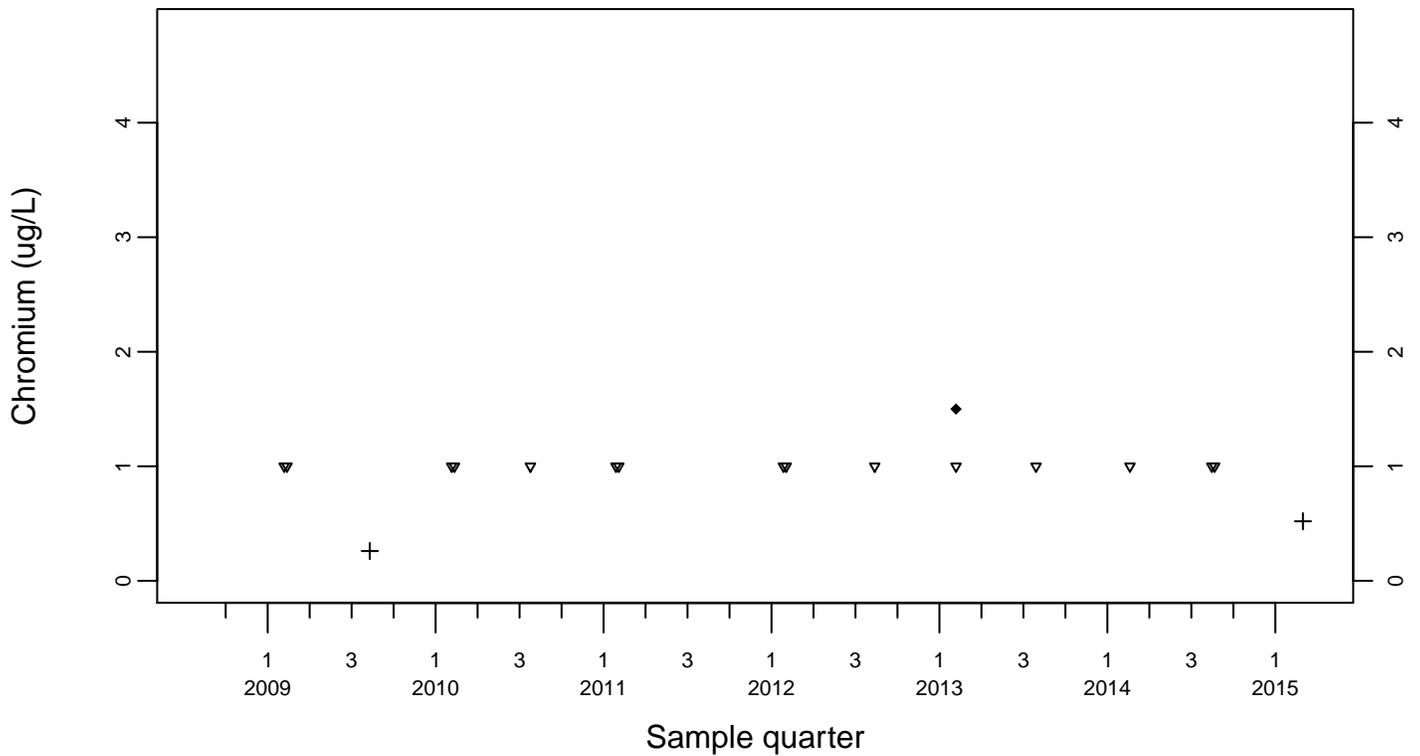
Sewage Ponds Ground Water Chromium (ug/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
 + Estimated



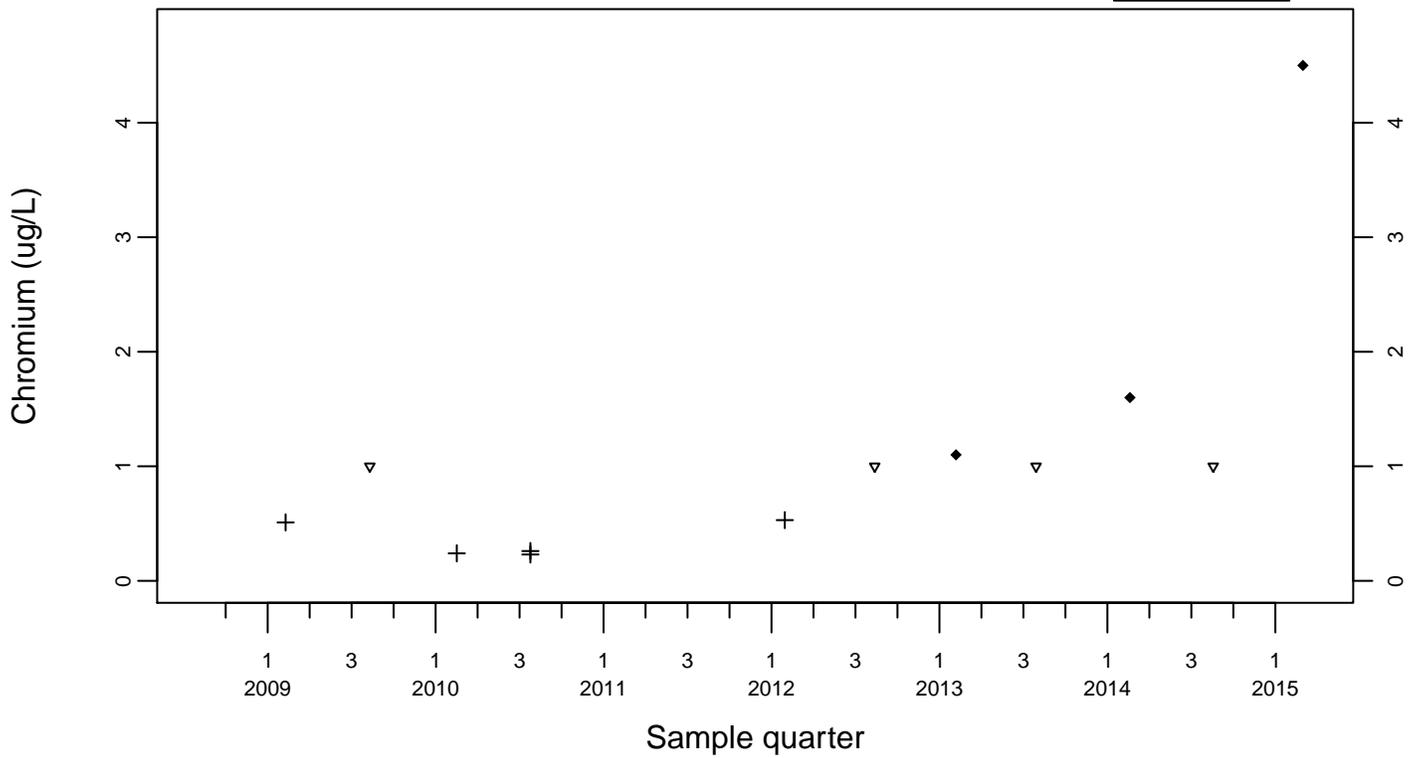
Downgradient Monitor Well W-25N-23



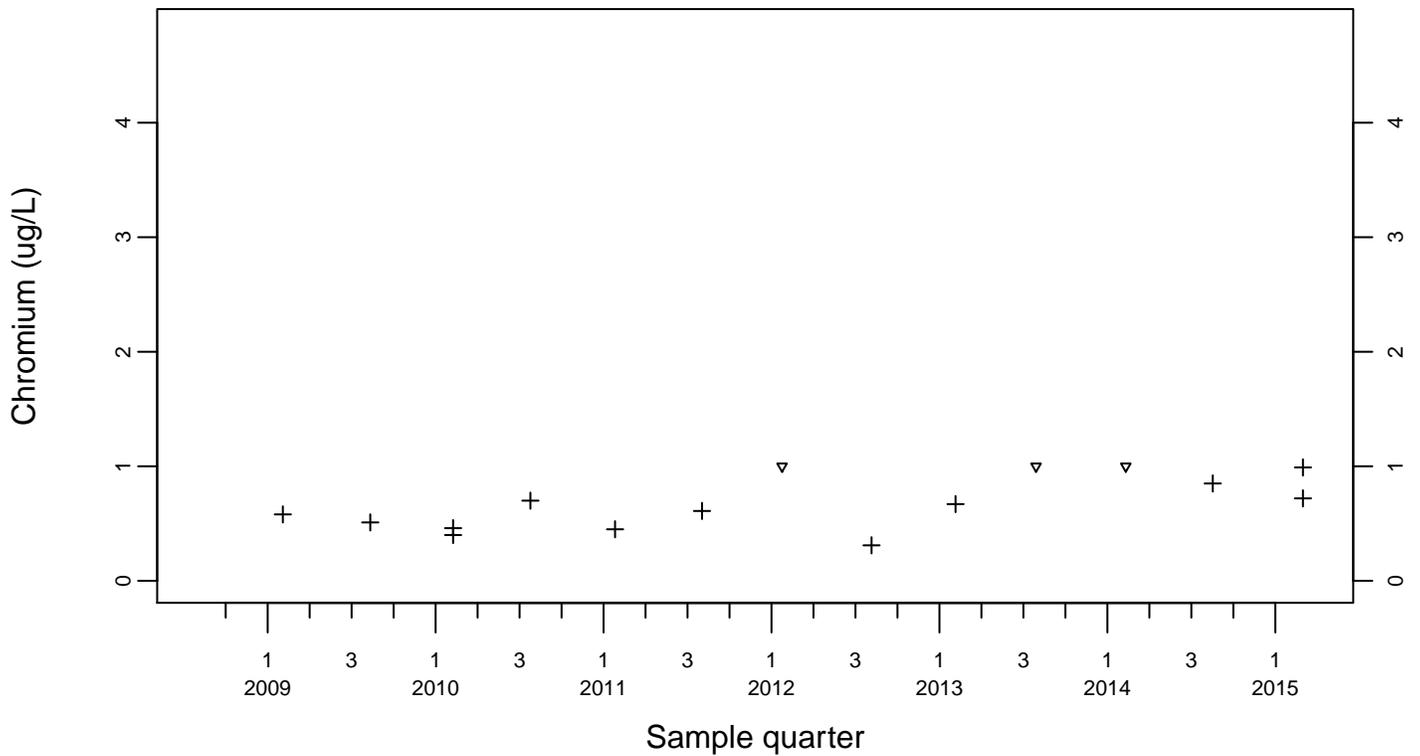
Sewage Ponds Ground Water
 Chromium (ug/L)

Downgradient Monitor Well W-25N-22

- ◆ Above RL
- ▽ Below RL
- + Estimated



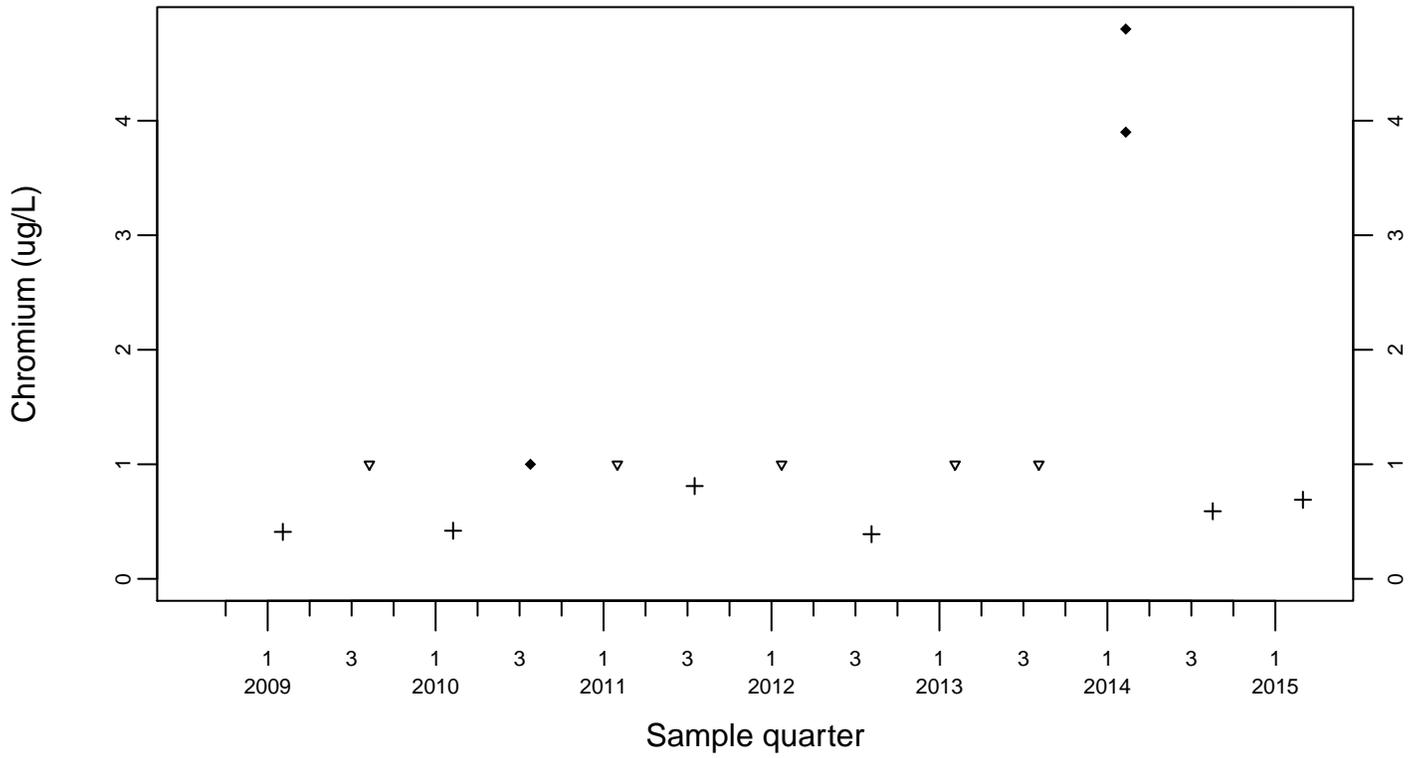
Downgradient Monitor Well W-26R-01



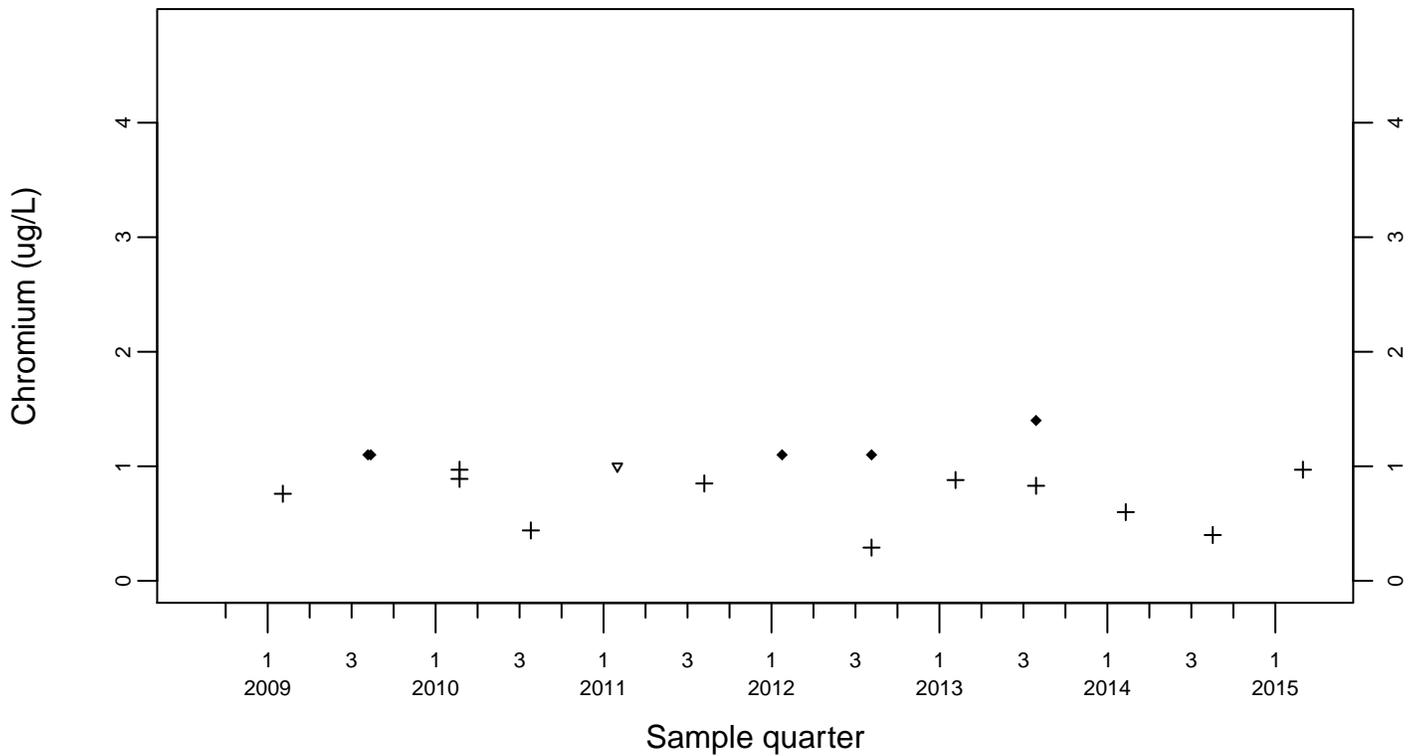
Sewage Ponds Ground Water
 Chromium (ug/L)

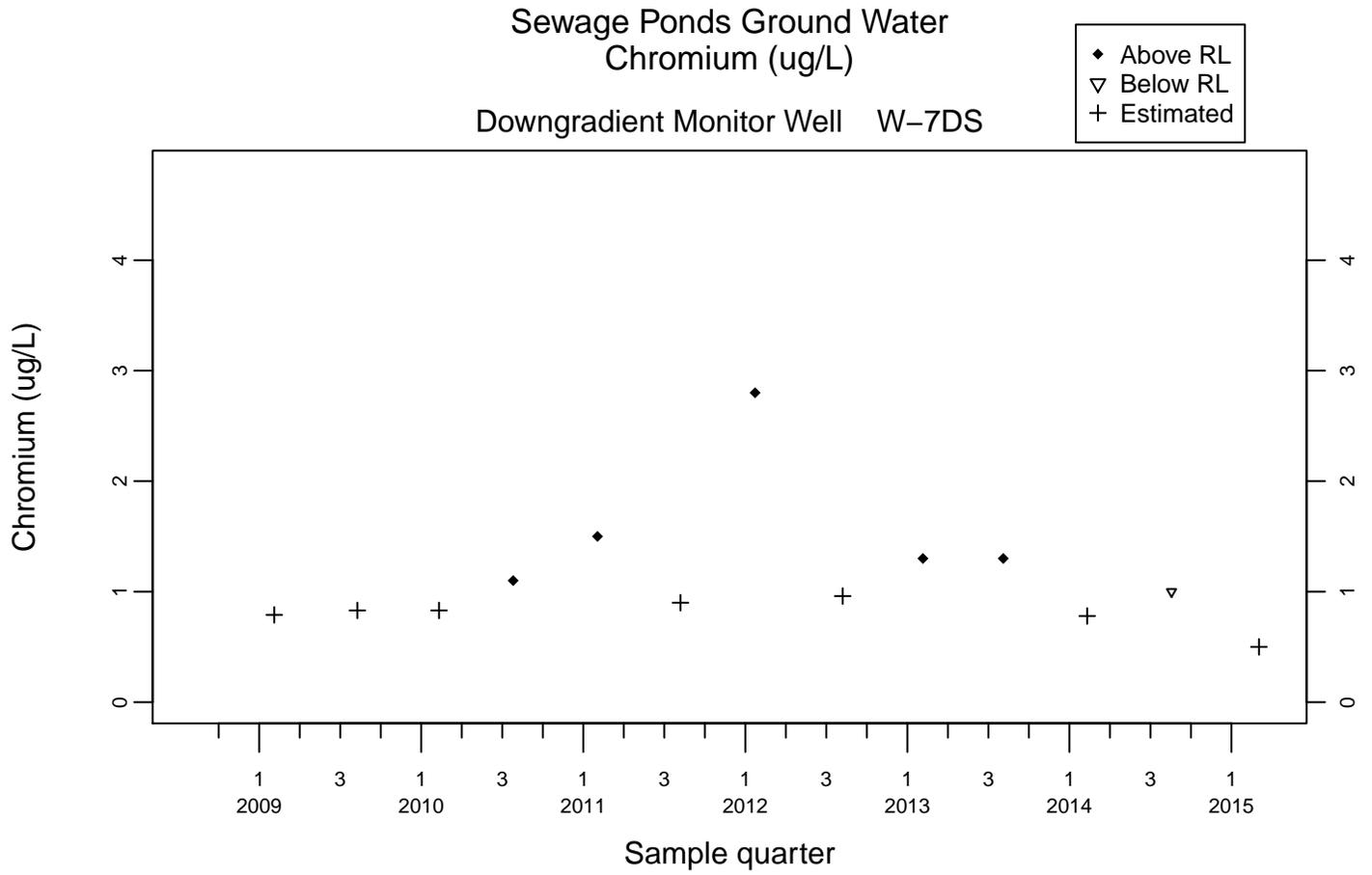
Downgradient Monitor Well W-26R-05

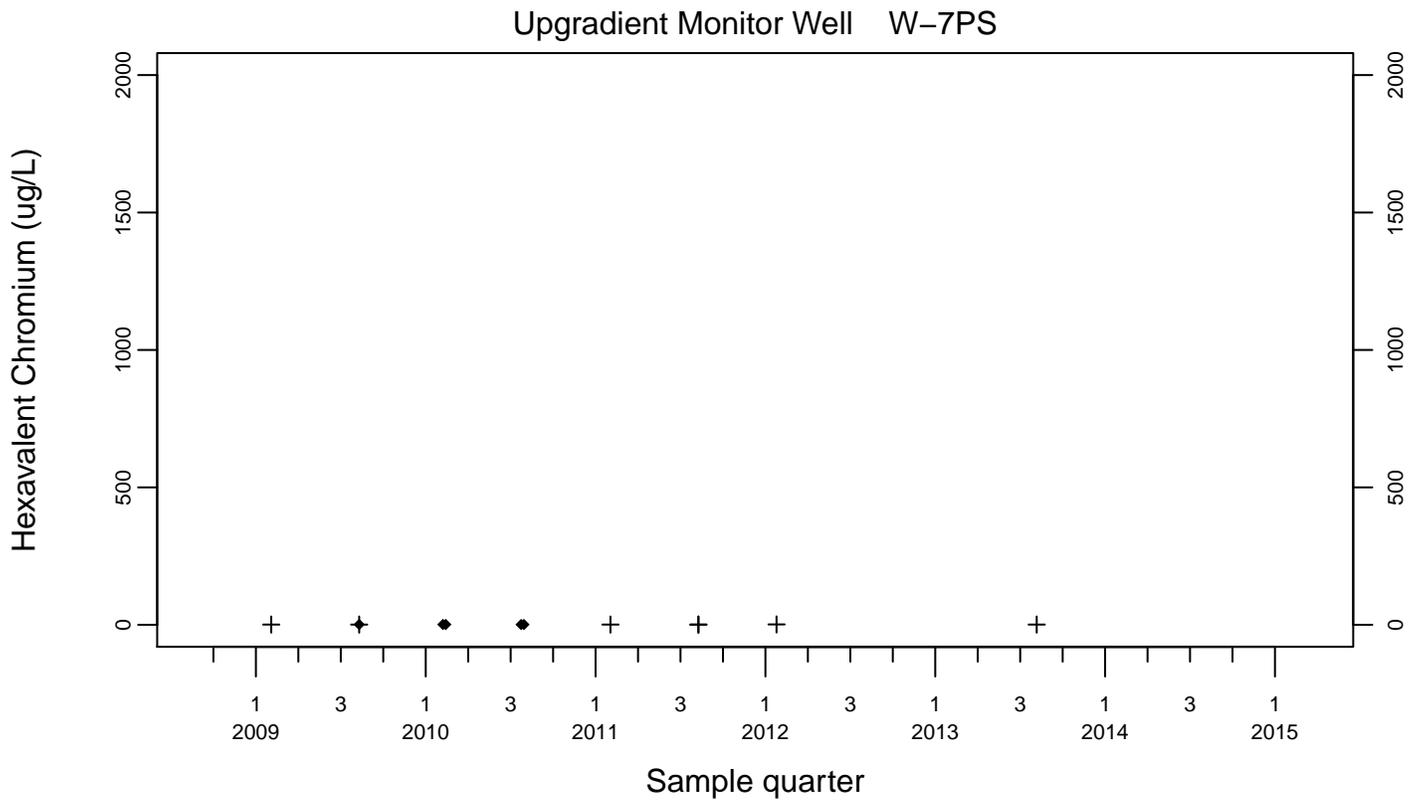
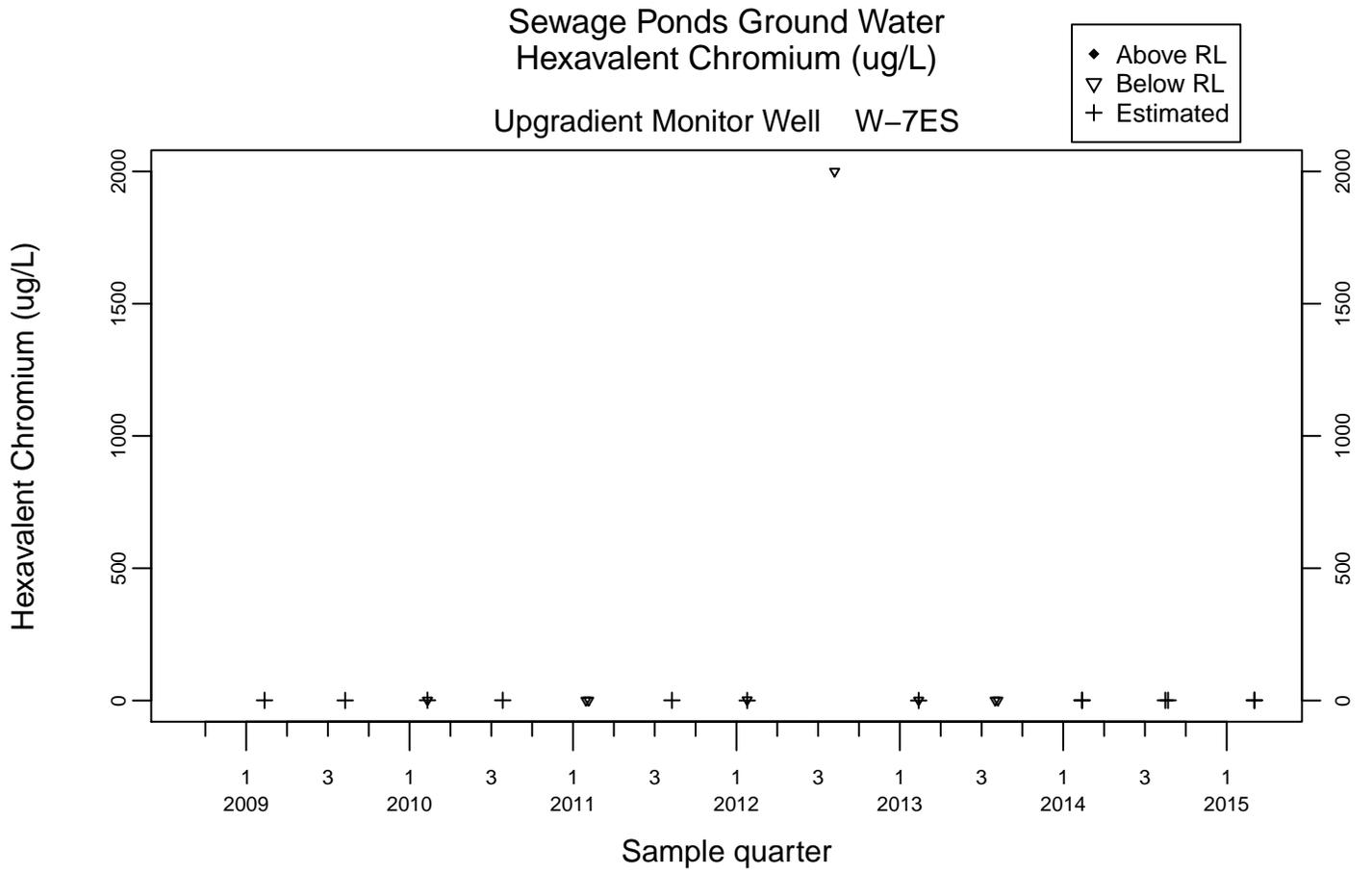
- ◆ Above RL
- ▽ Below RL
- + Estimated



Downgradient Monitor Well W-26R-11



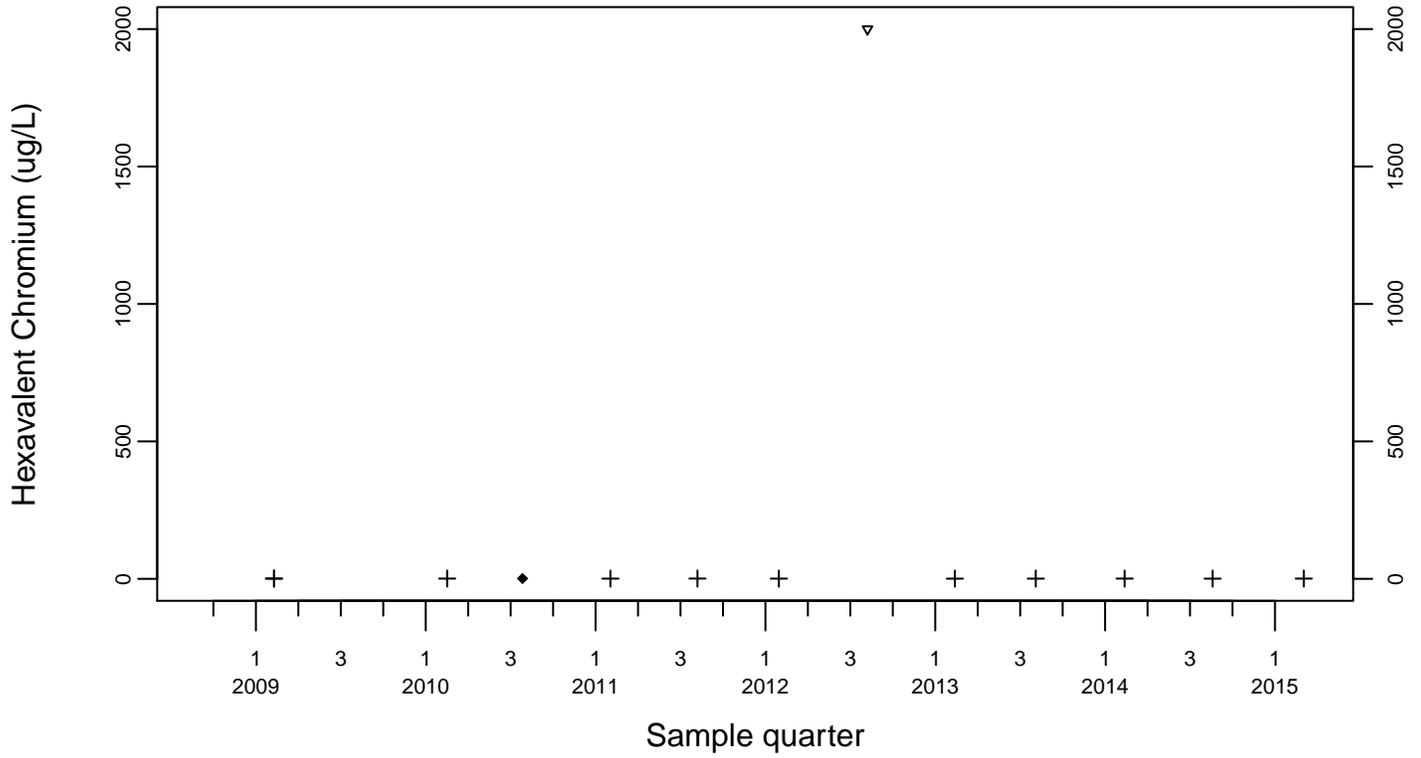




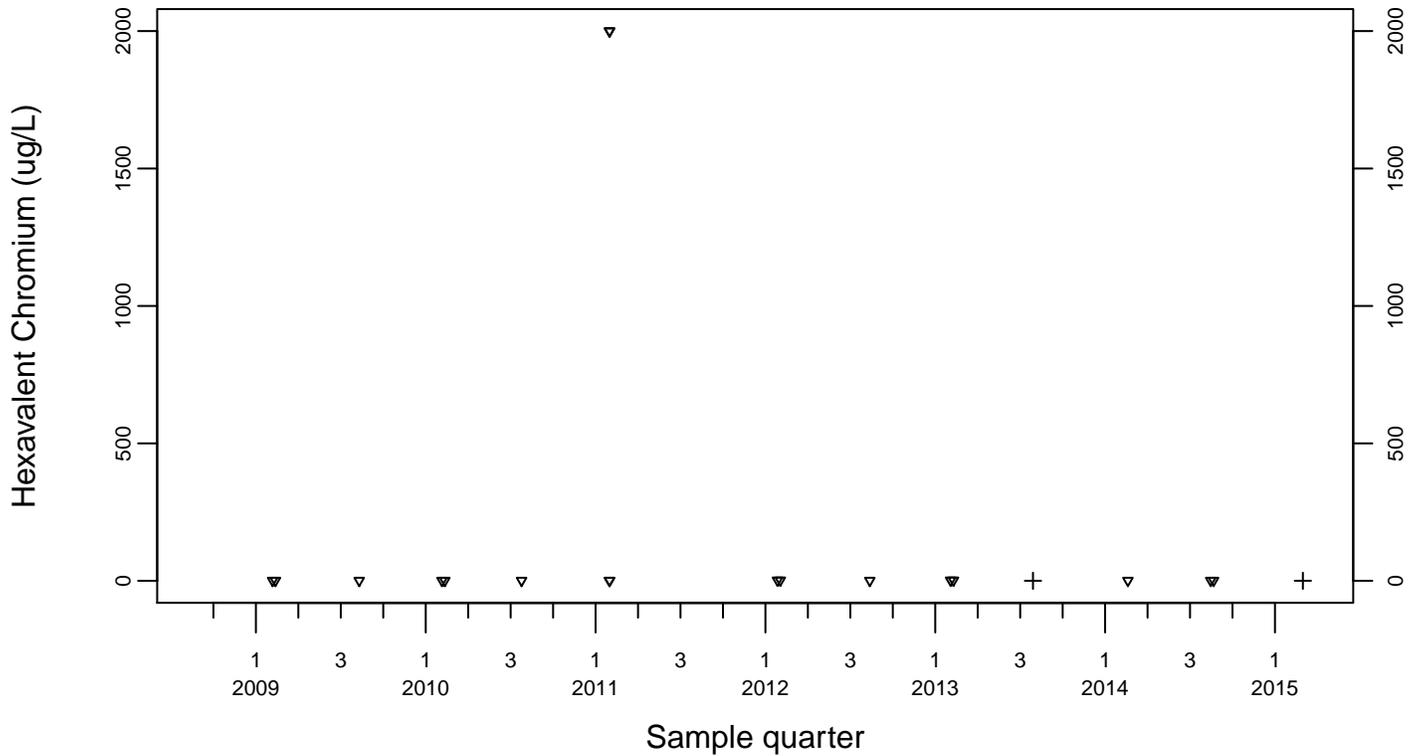
Sewage Ponds Ground Water
 Hexavalent Chromium (ug/L)

Crossgradient Monitor Well W-35A-04

- ◆ Above RL
- ▽ Below RL
- + Estimated



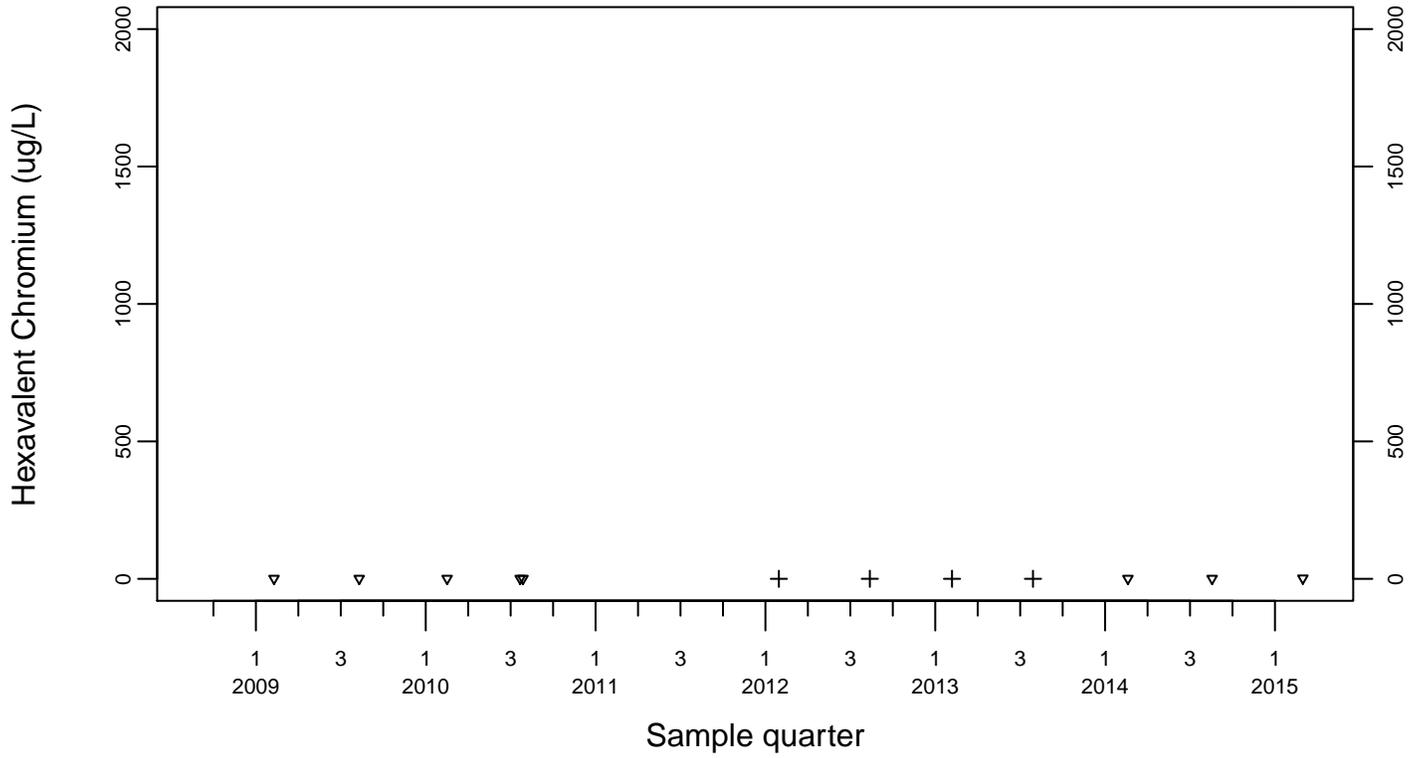
Downgradient Monitor Well W-25N-23



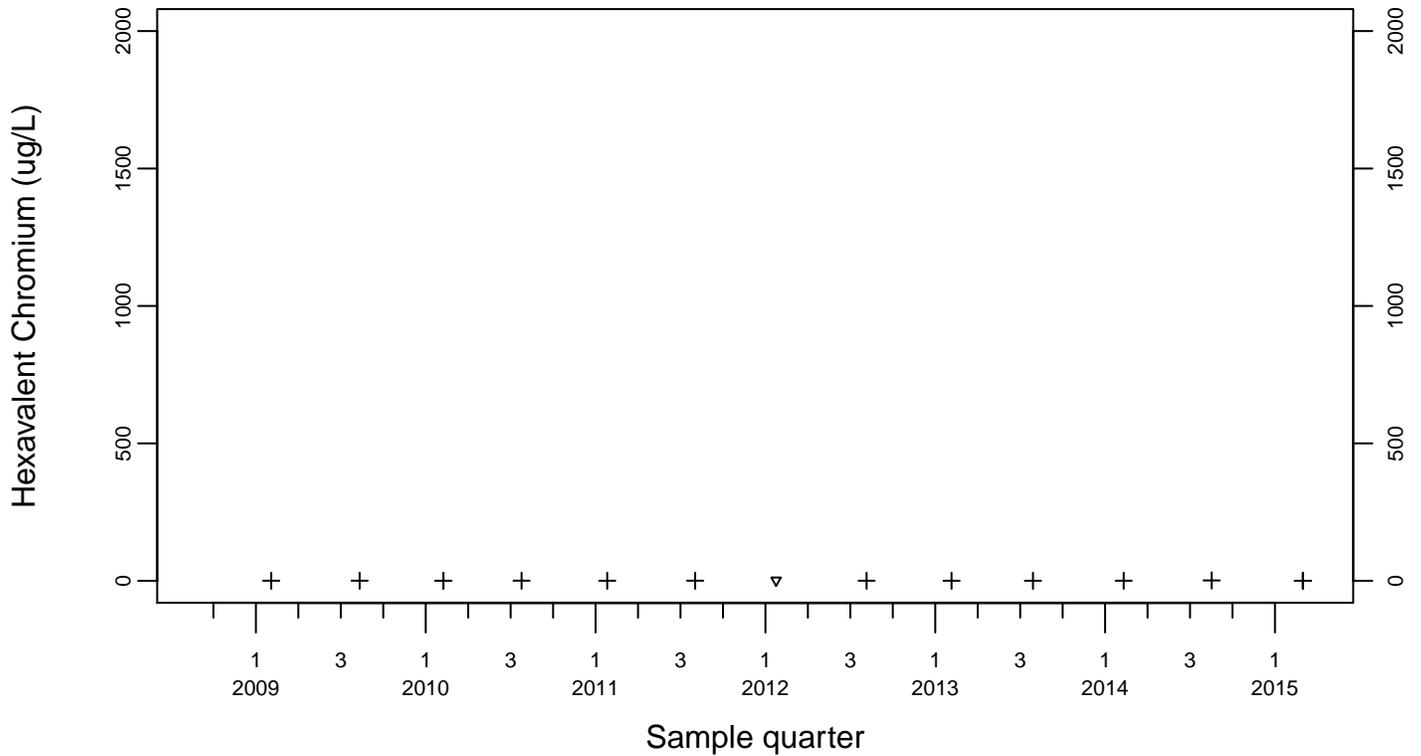
Sewage Ponds Ground Water Hexavalent Chromium (ug/L)

Downgradient Monitor Well W-25N-22

- ◆ Above RL
- ▽ Below RL
- + Estimated



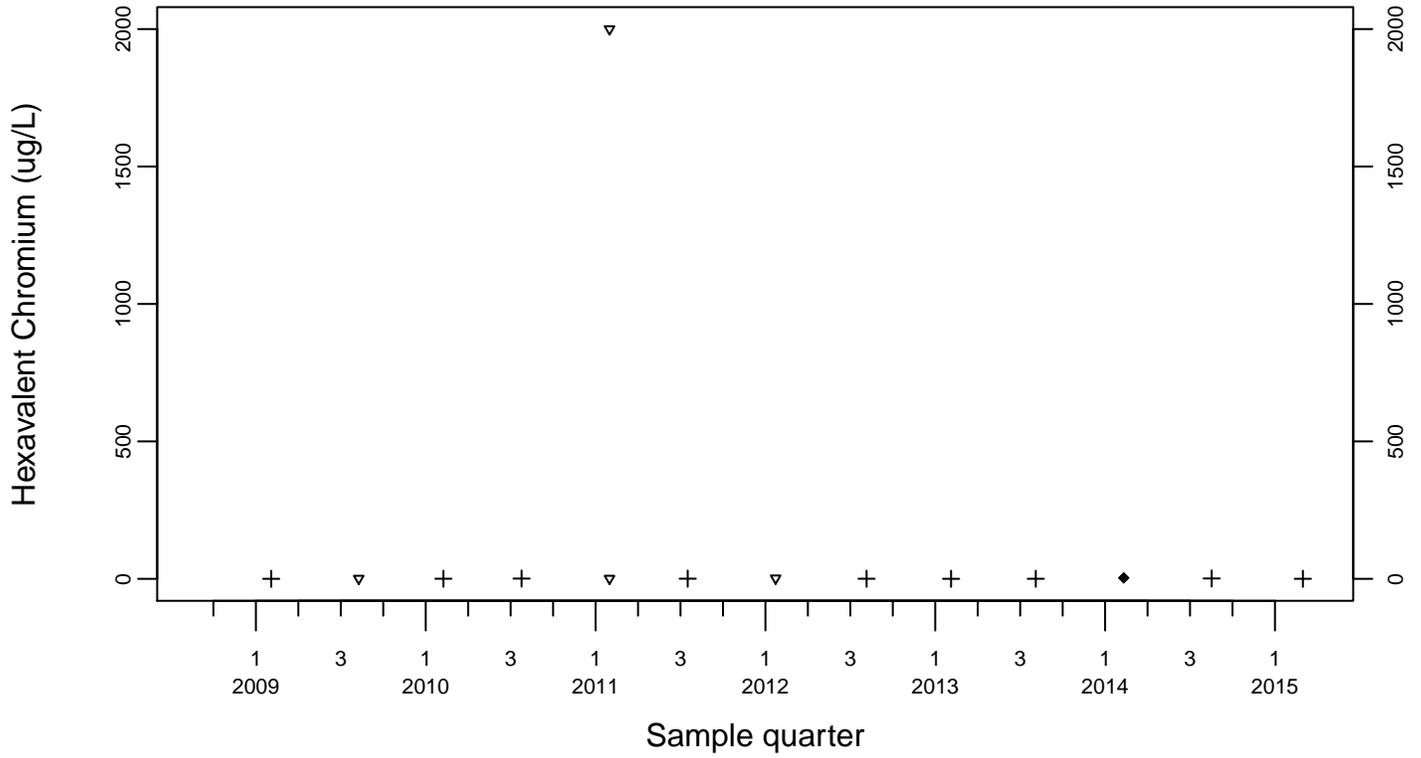
Downgradient Monitor Well W-26R-01



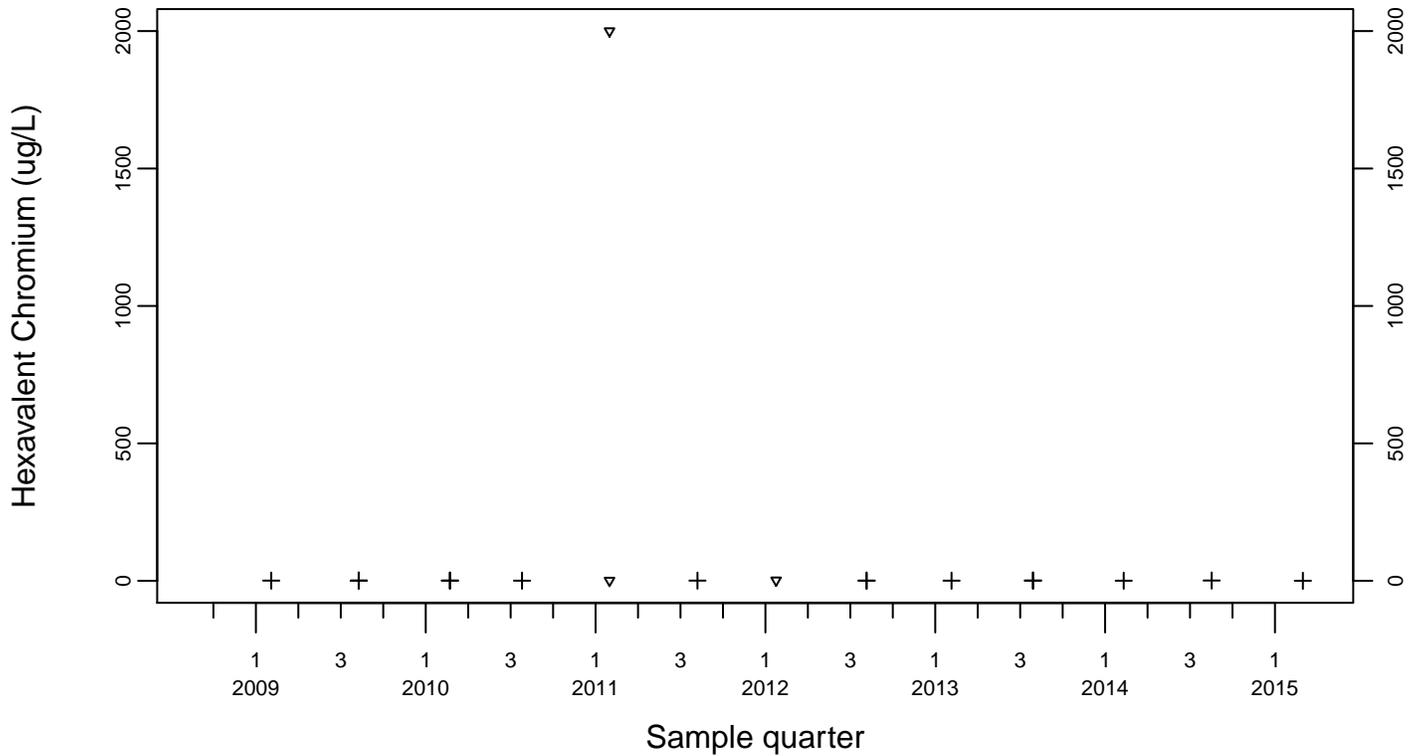
Sewage Ponds Ground Water Hexavalent Chromium (ug/L)

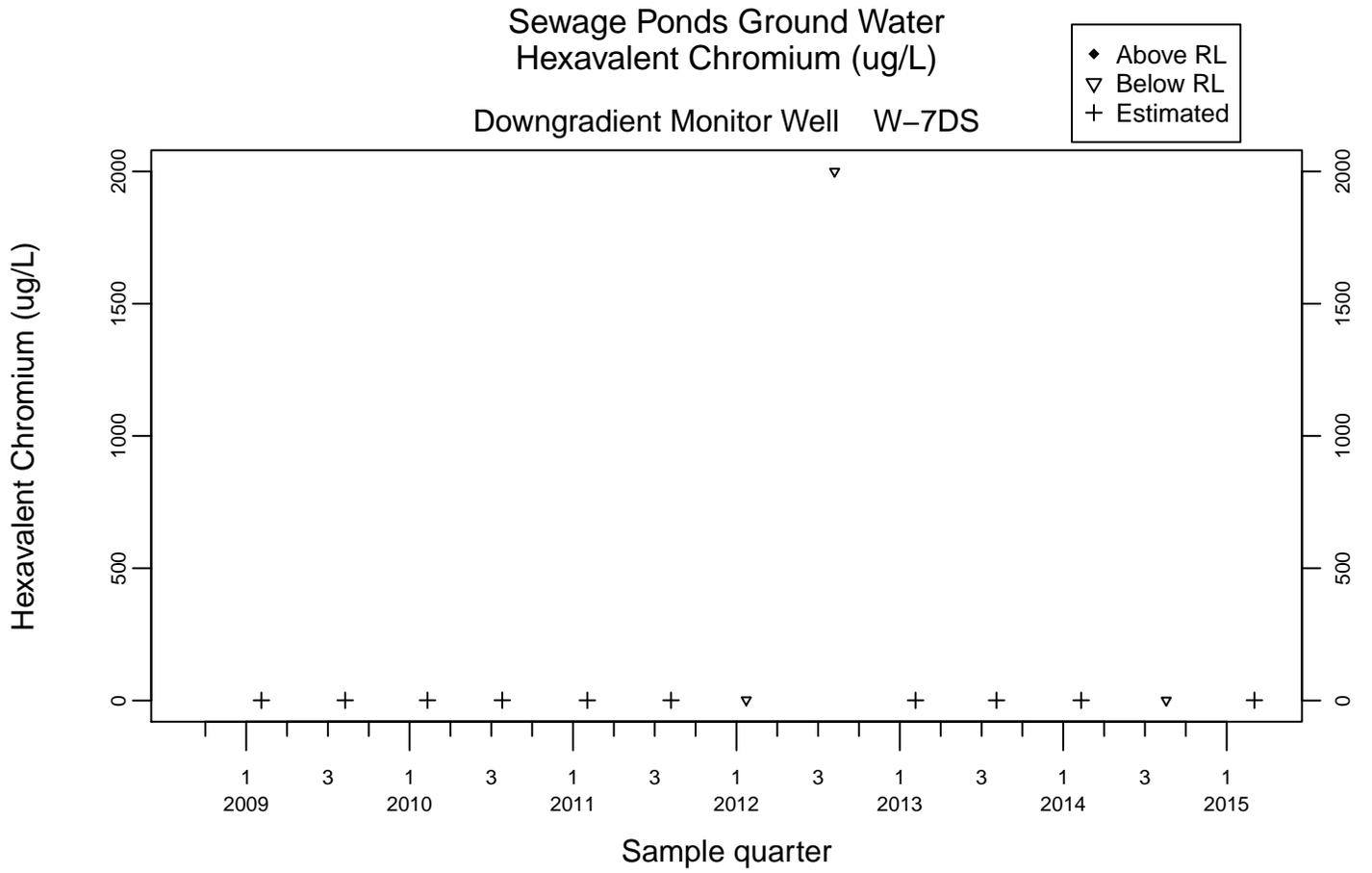
Downgradient Monitor Well W-26R-05

- ◆ Above RL
- ▽ Below RL
- + Estimated



Downgradient Monitor Well W-26R-11

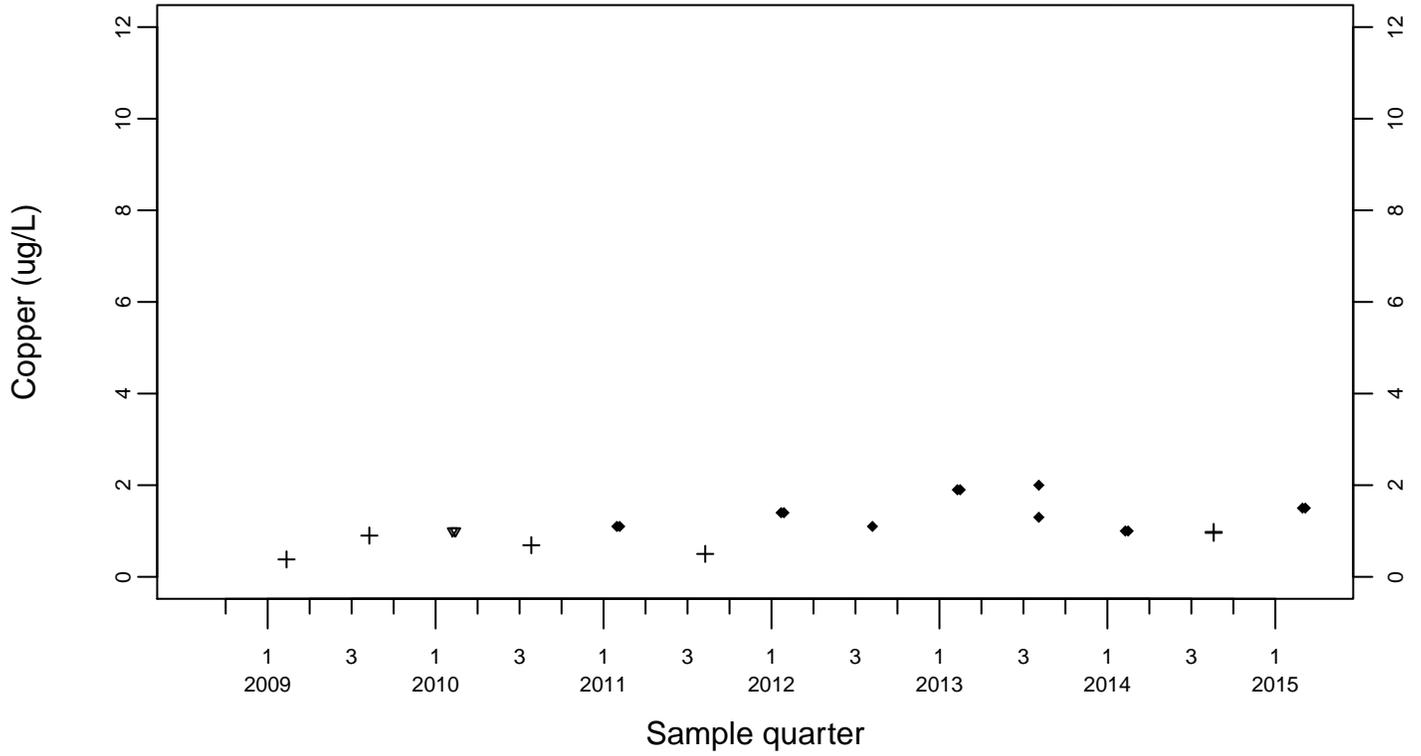




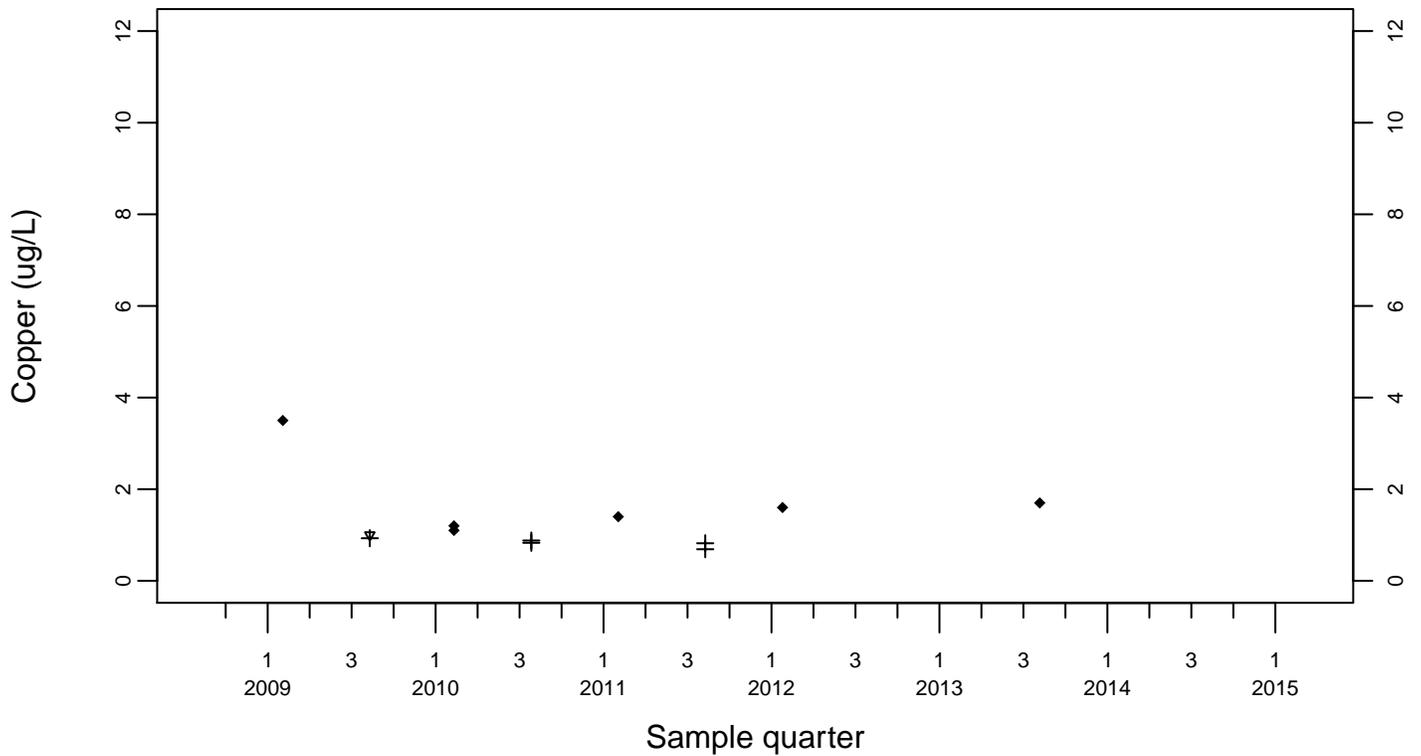
Sewage Ponds Ground Water Copper (ug/L)

Upgradient Monitor Well W-7ES

- ◆ Above RL
- ▽ Below RL
- + Estimated



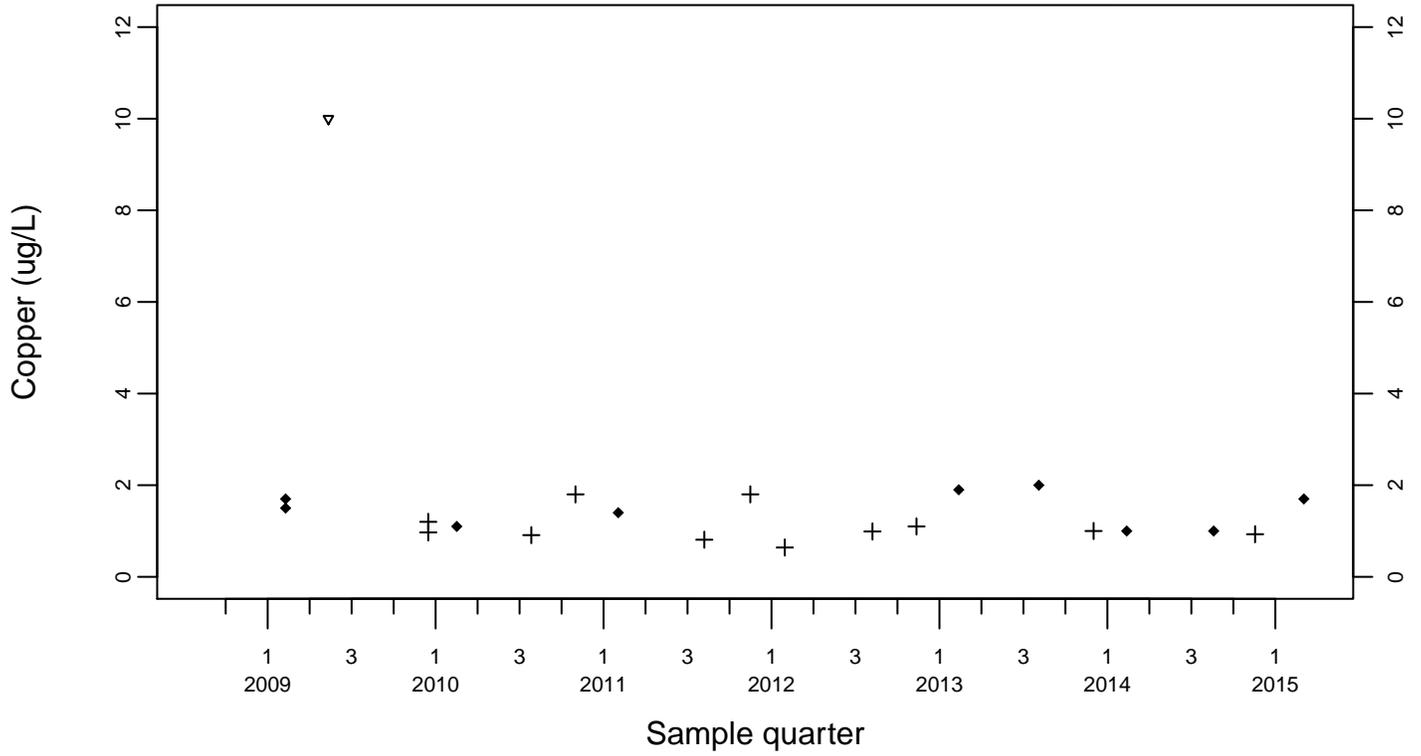
Upgradient Monitor Well W-7PS



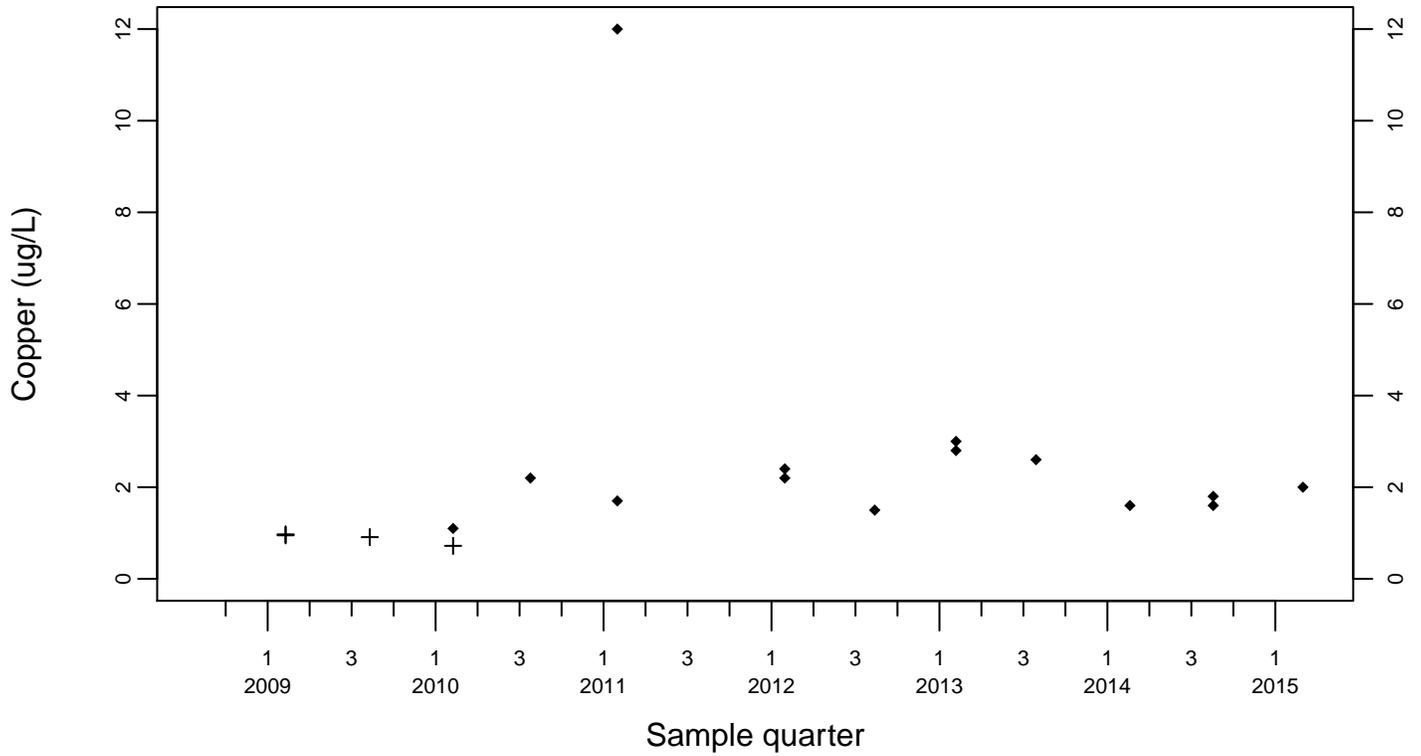
Sewage Ponds Ground Water
 Copper (ug/L)

Crossgradient Monitor Well W-35A-04

- ◆ Above RL
- ▽ Below RL
- + Estimated



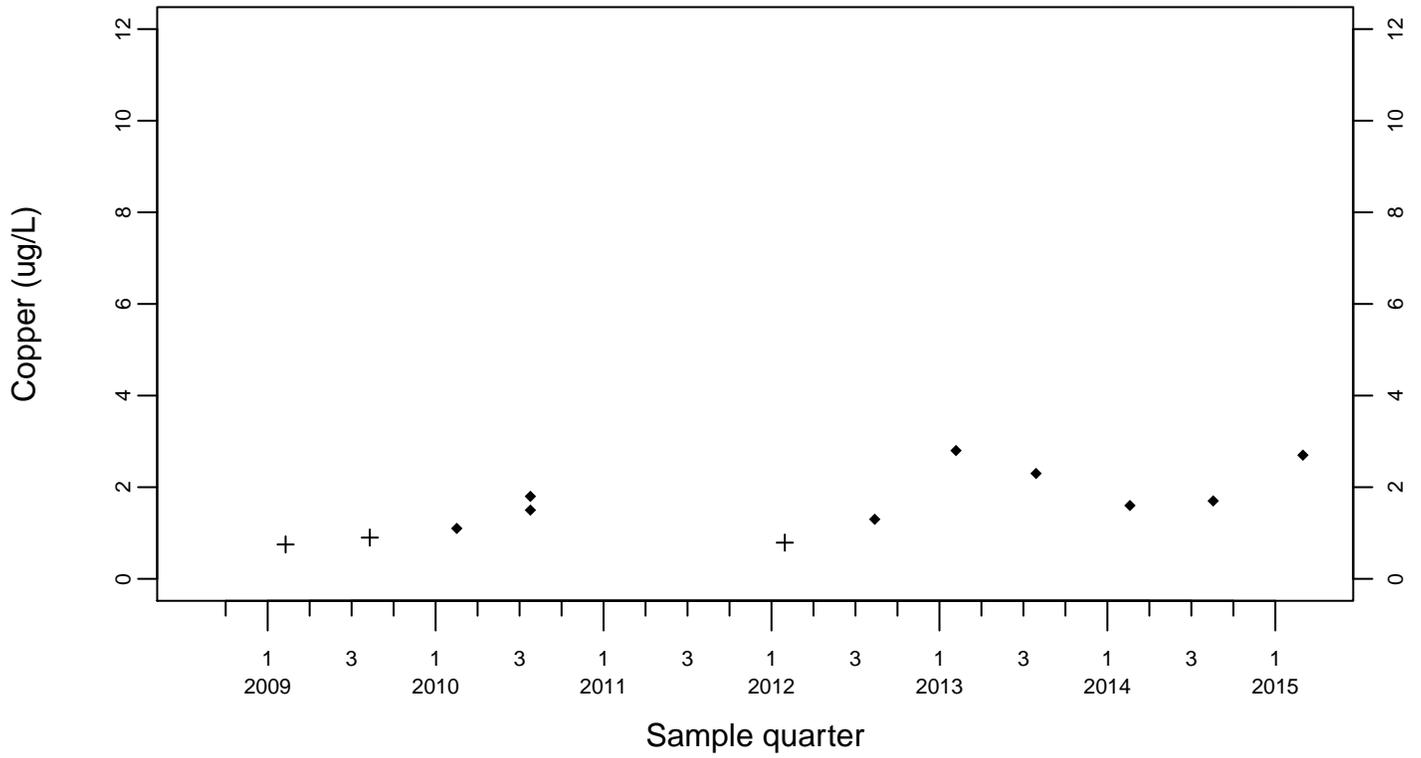
Downgradient Monitor Well W-25N-23



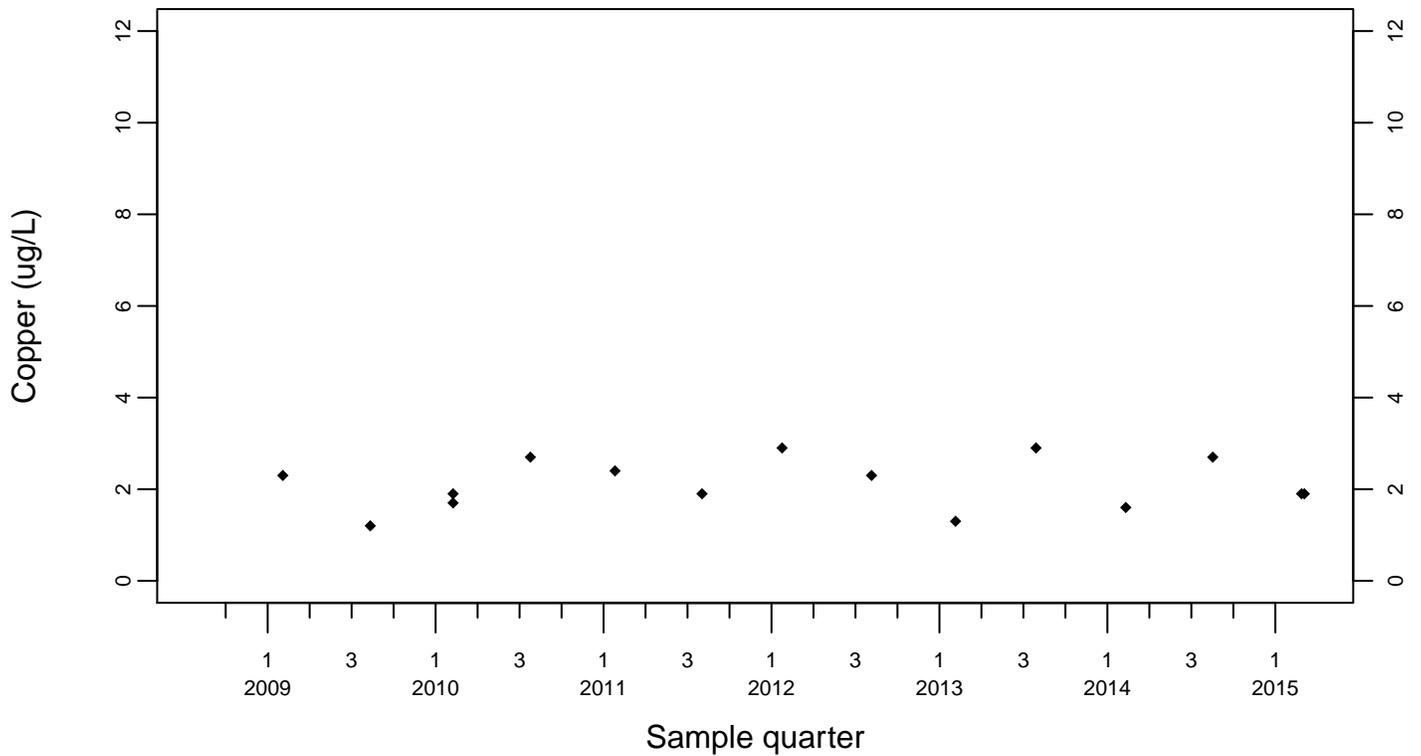
Sewage Ponds Ground Water Copper (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
+ Estimated



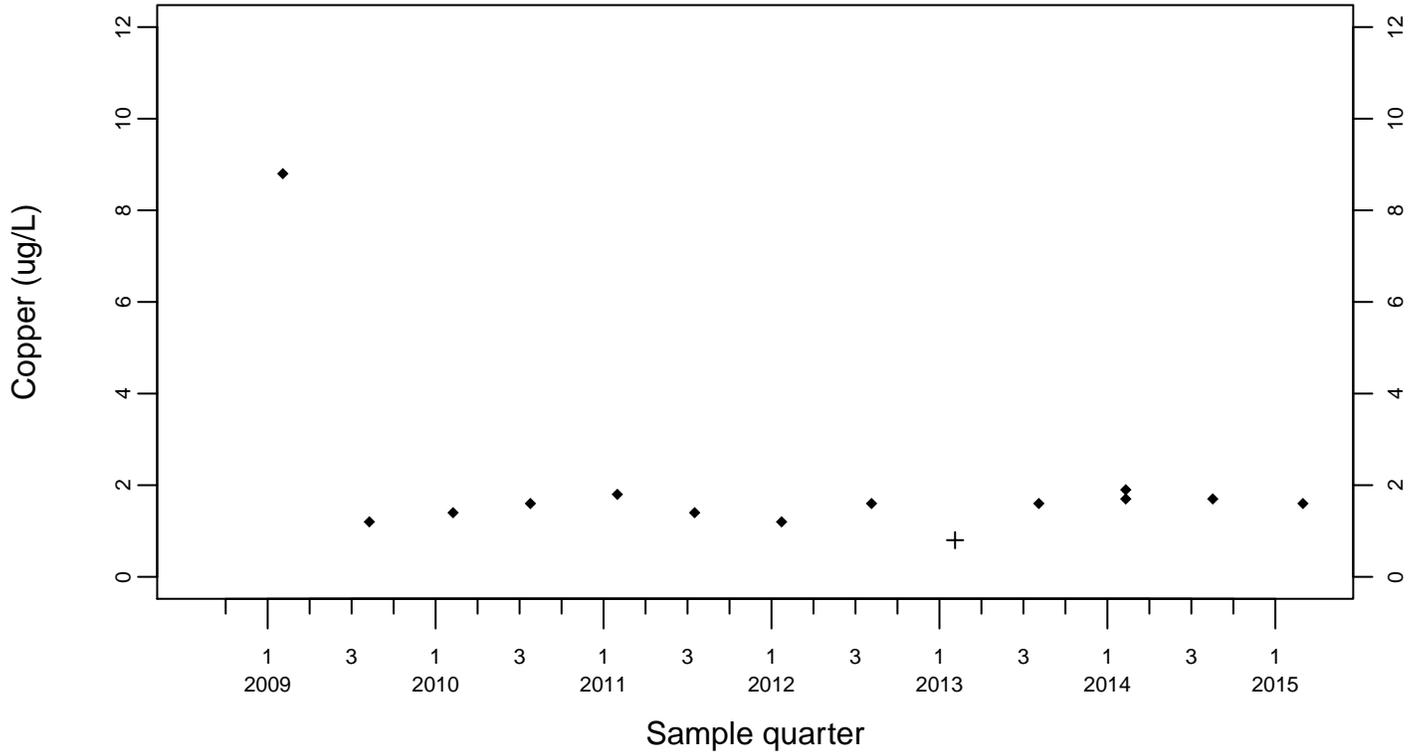
Downgradient Monitor Well W-26R-01



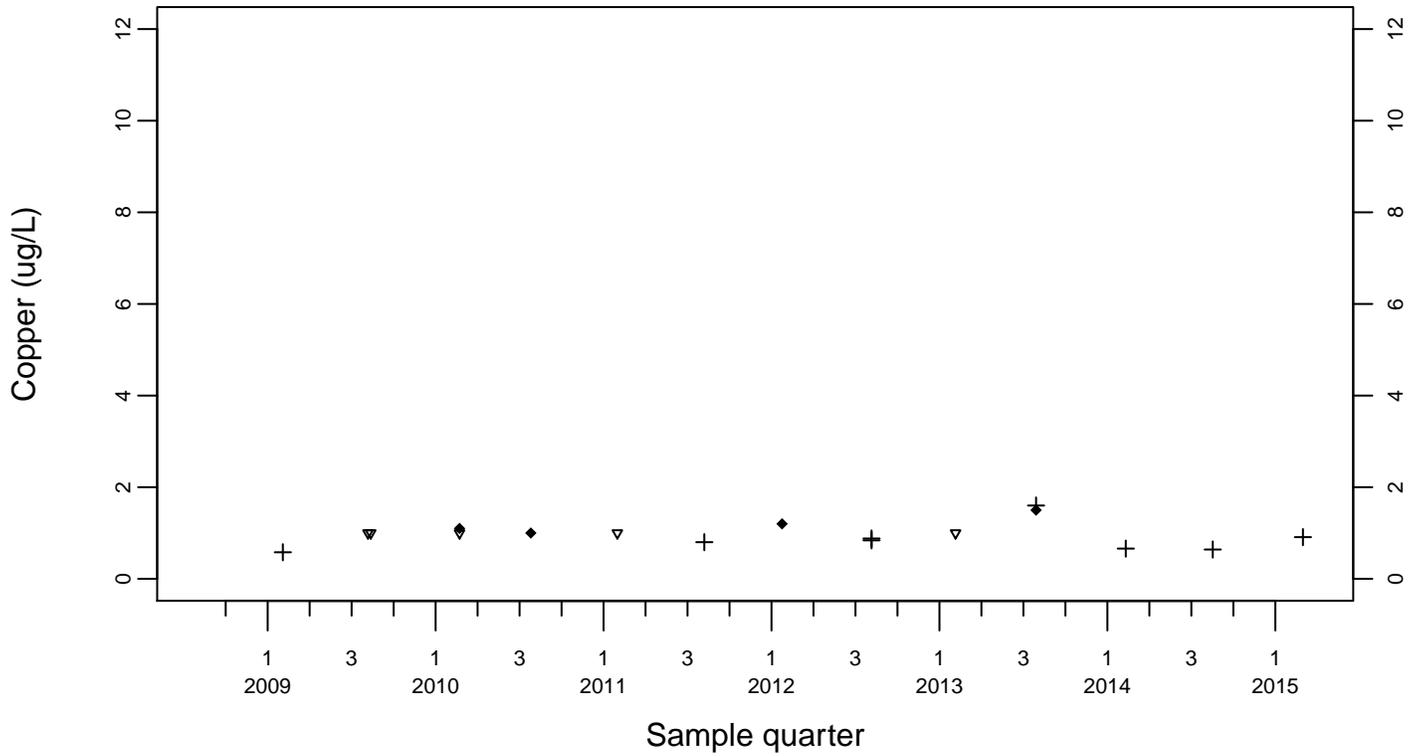
Sewage Ponds Ground Water Copper (ug/L)

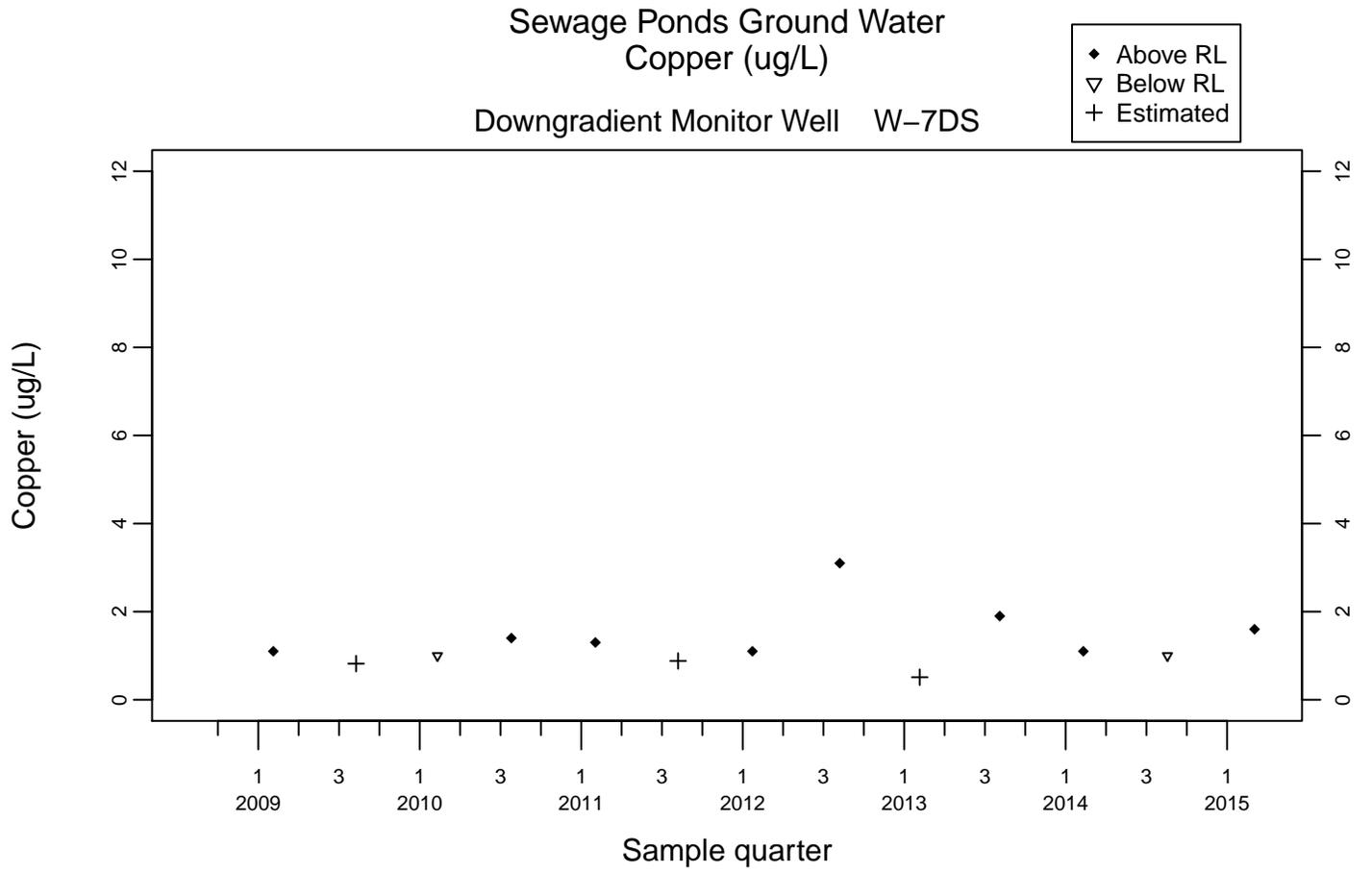
Downgradient Monitor Well W-26R-05

◆ Above RL
+ Estimated



Downgradient Monitor Well W-26R-11

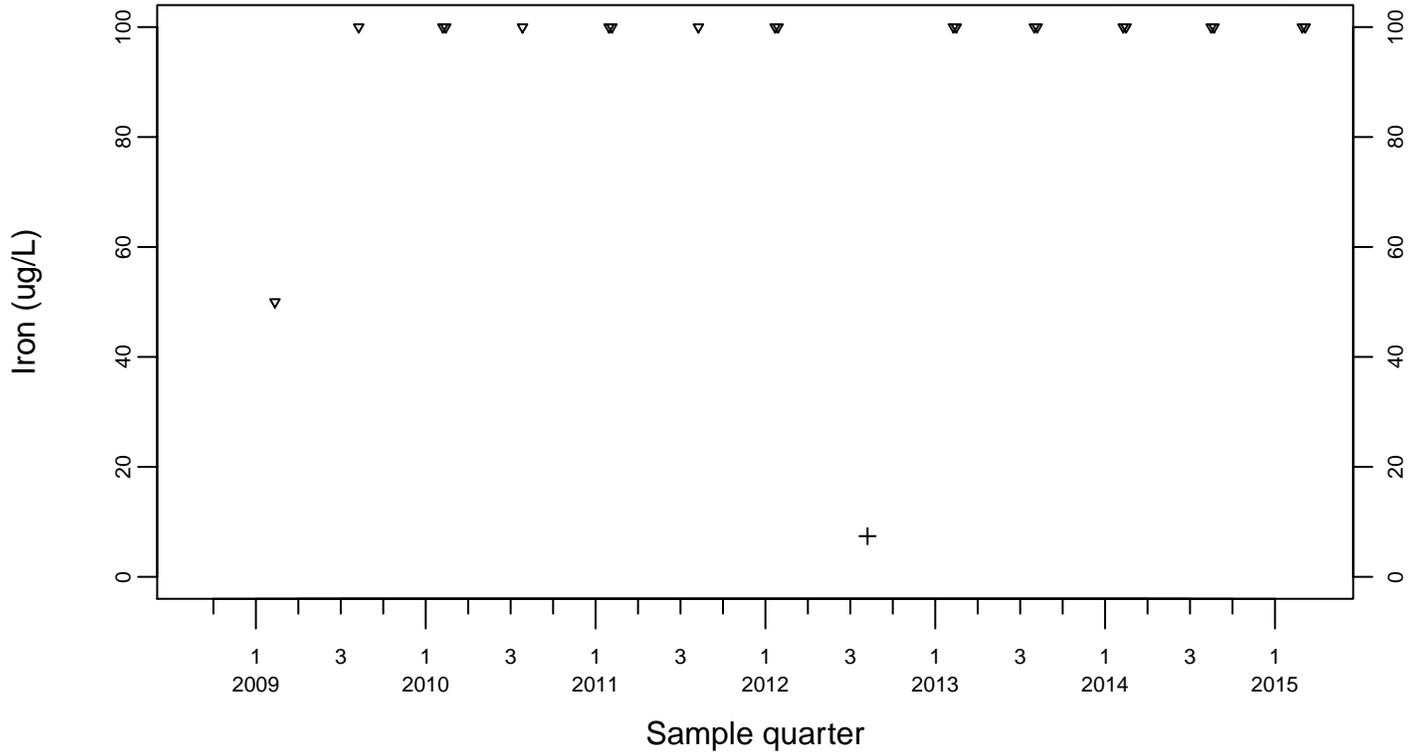




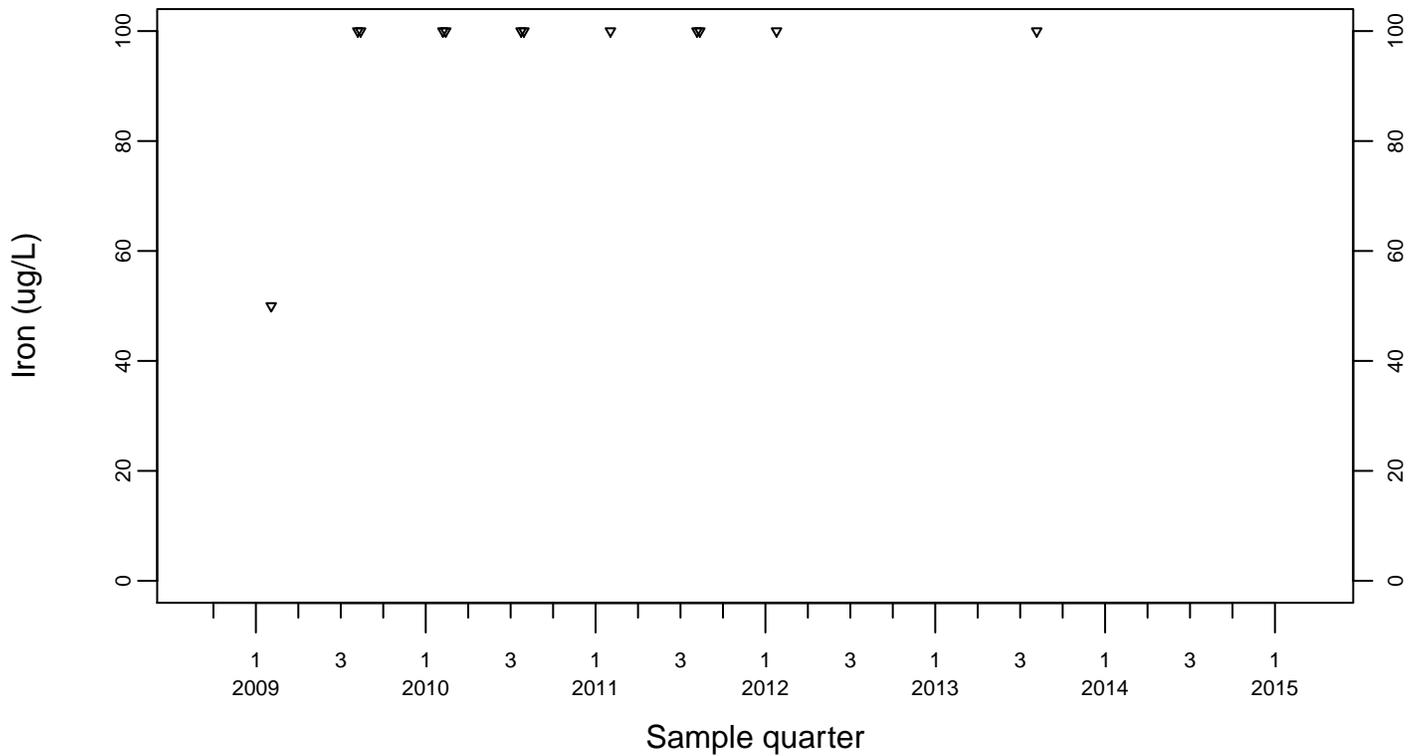
Sewage Ponds Ground Water Iron (ug/L)

Upgradient Monitor Well W-7ES

- ◆ Above RL
- ▽ Below RL
- + Estimated



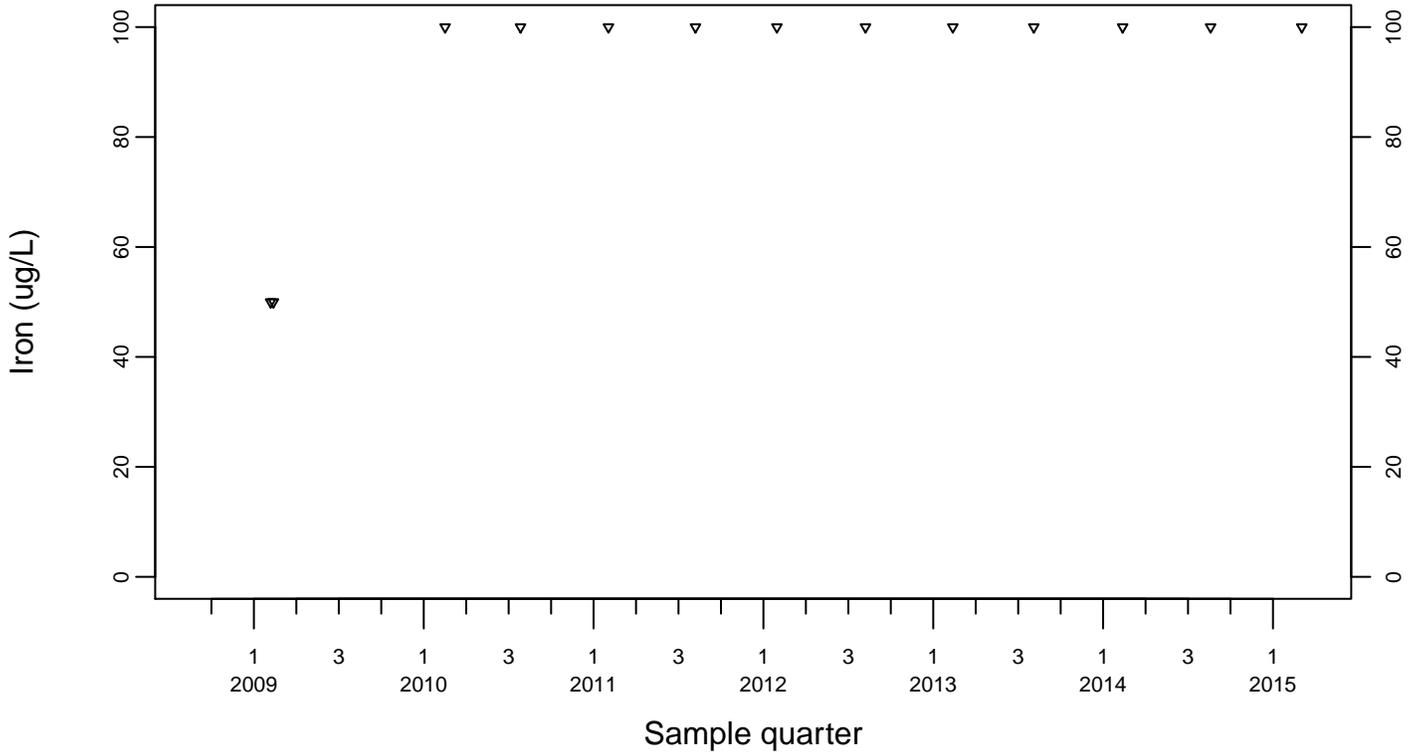
Upgradient Monitor Well W-7PS



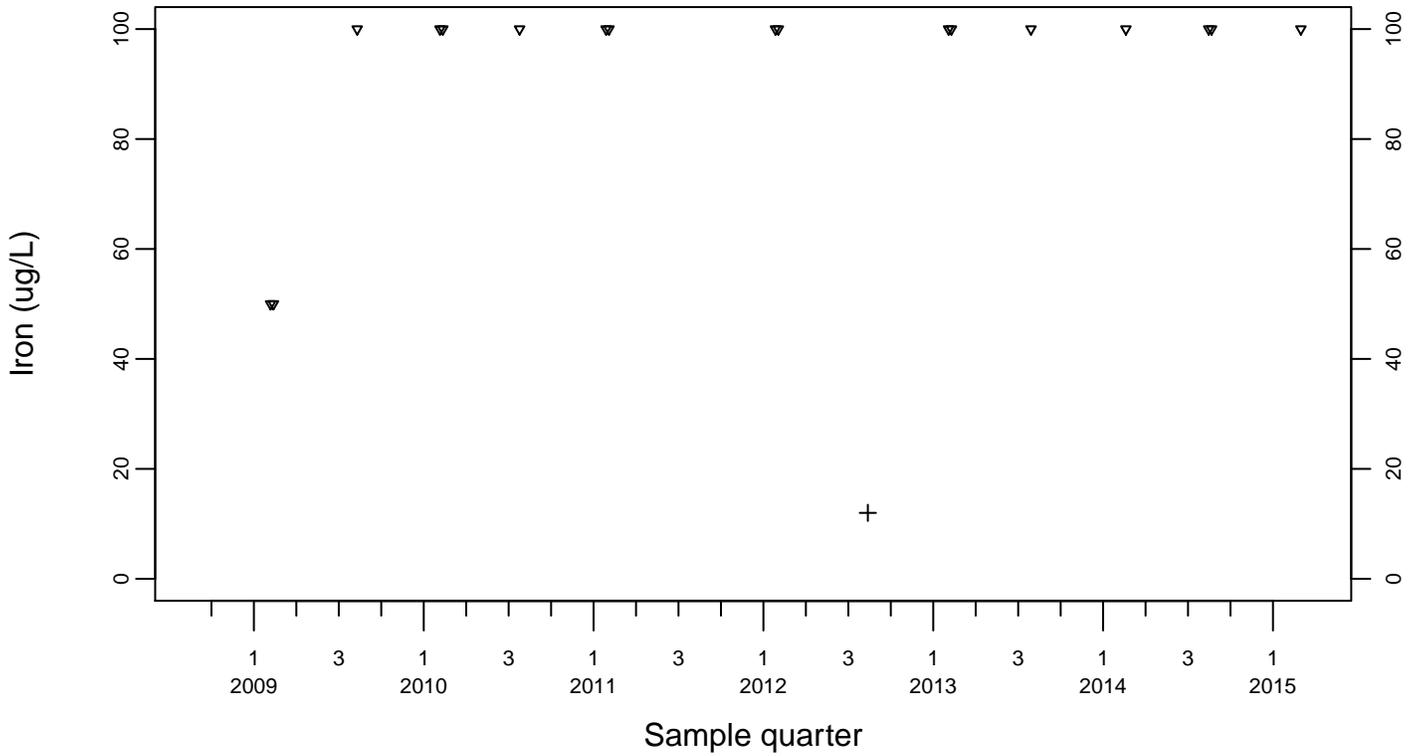
Sewage Ponds Ground Water Iron (ug/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



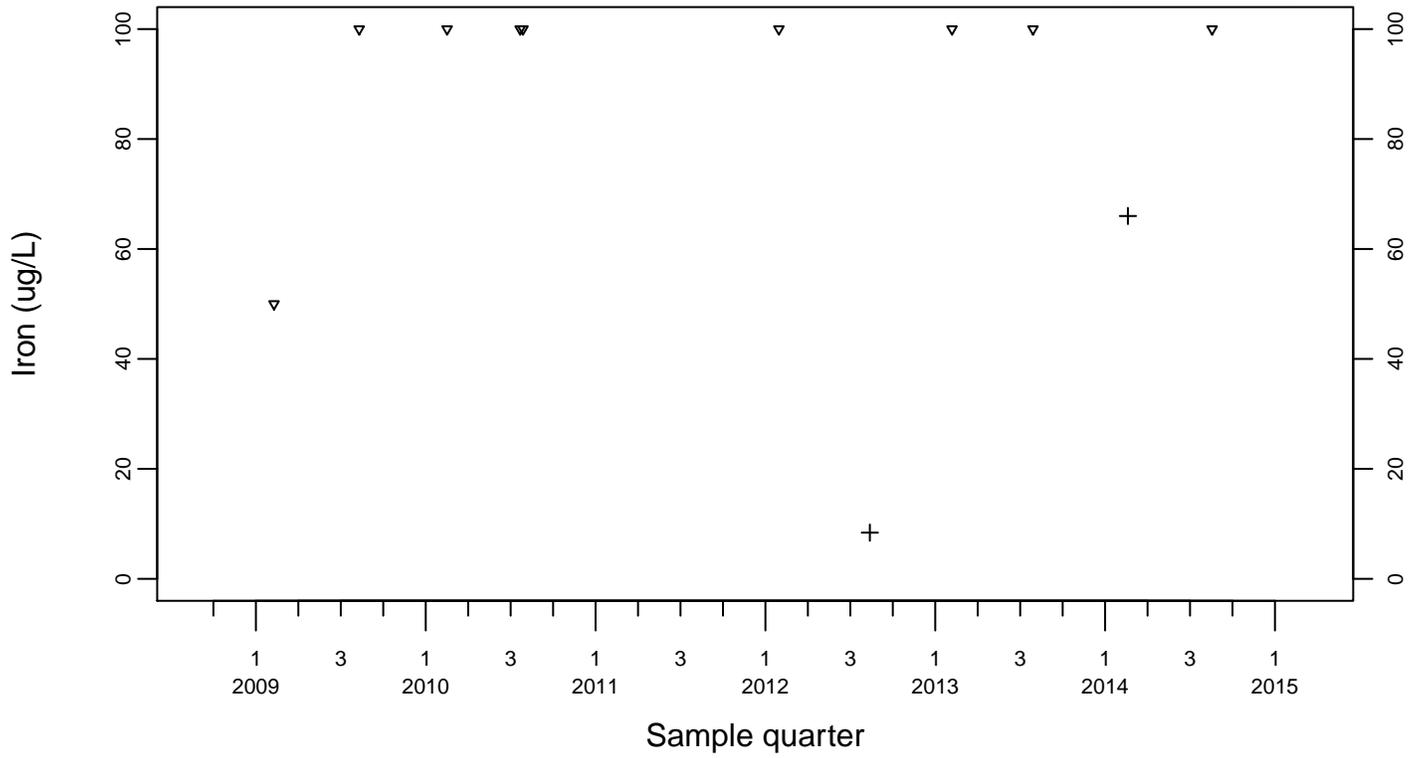
Downgradient Monitor Well W-25N-23



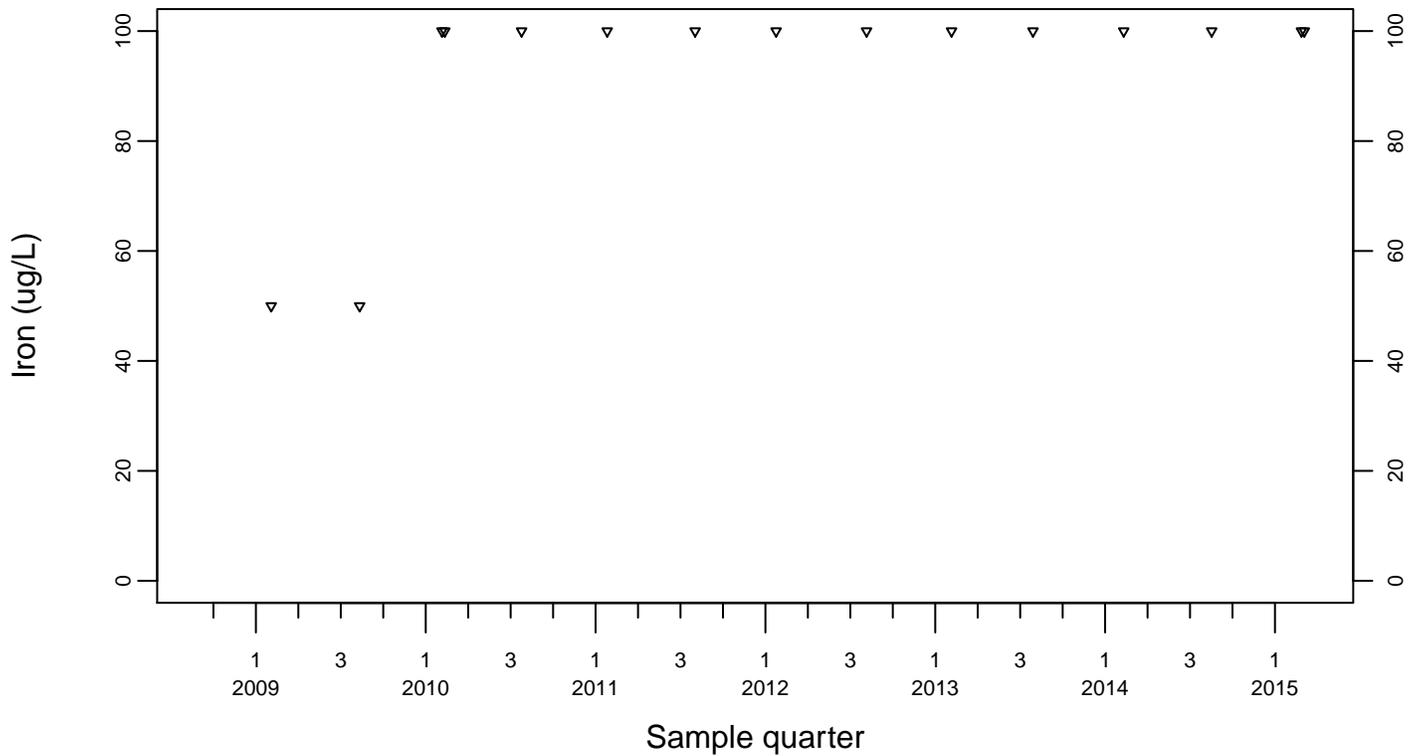
Sewage Ponds Ground Water Iron (ug/L)

Downgradient Monitor Well W-25N-22

- ◆ Above RL
- ▽ Below RL
- + Estimated



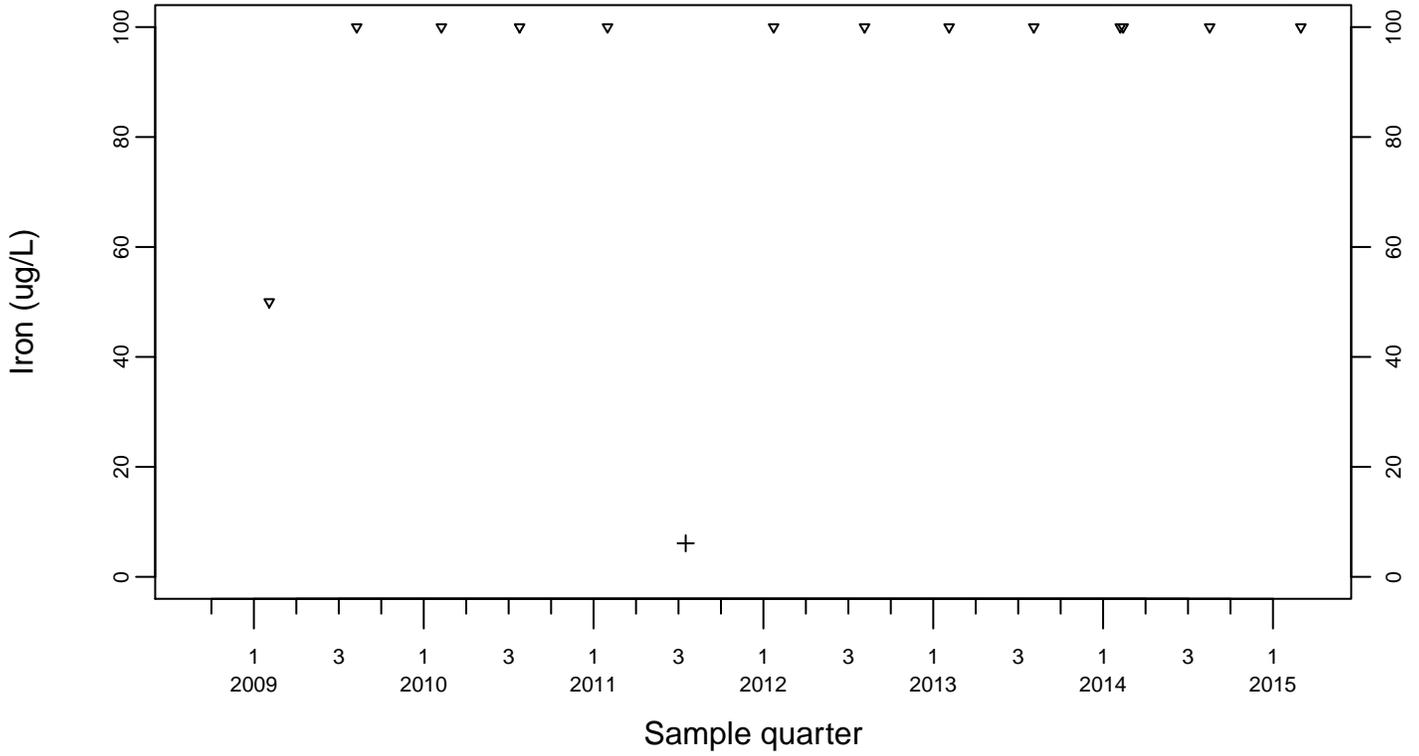
Downgradient Monitor Well W-26R-01



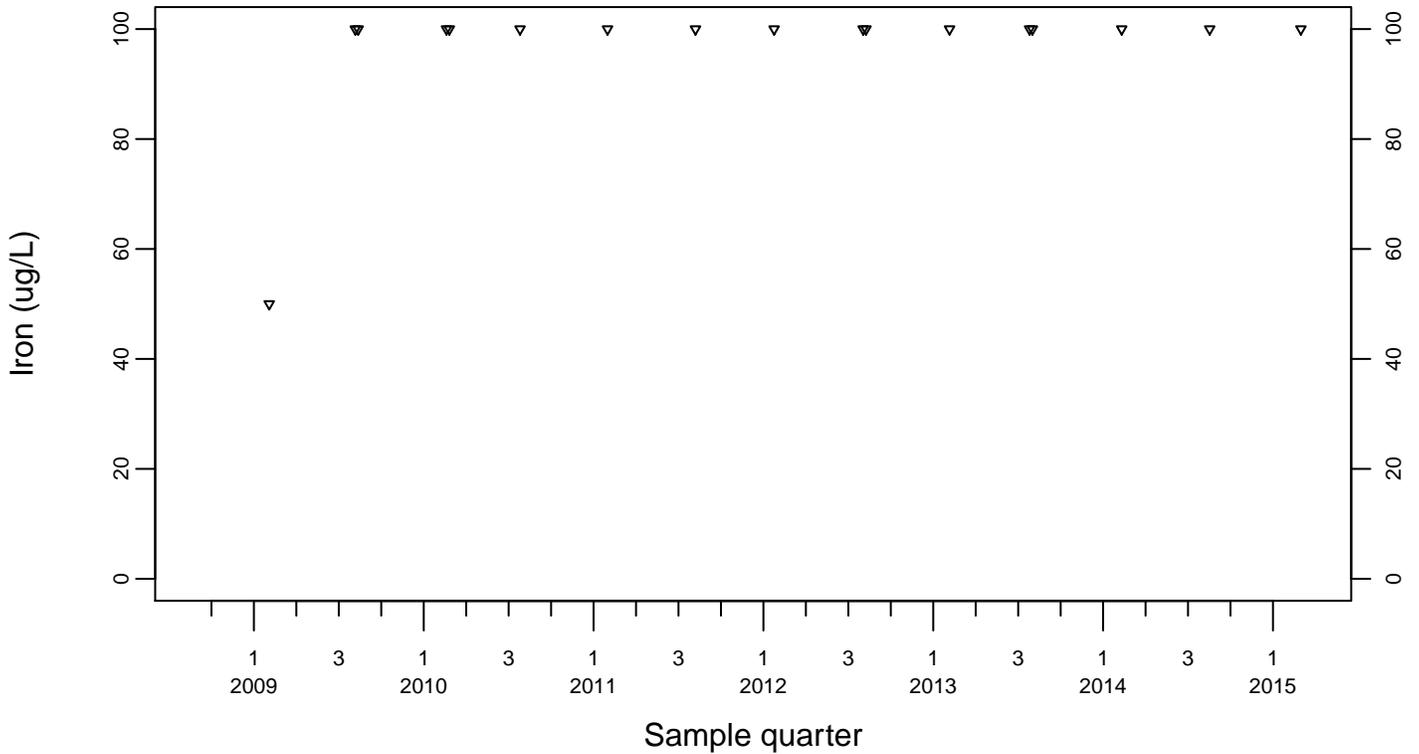
Sewage Ponds Ground Water Iron (ug/L)

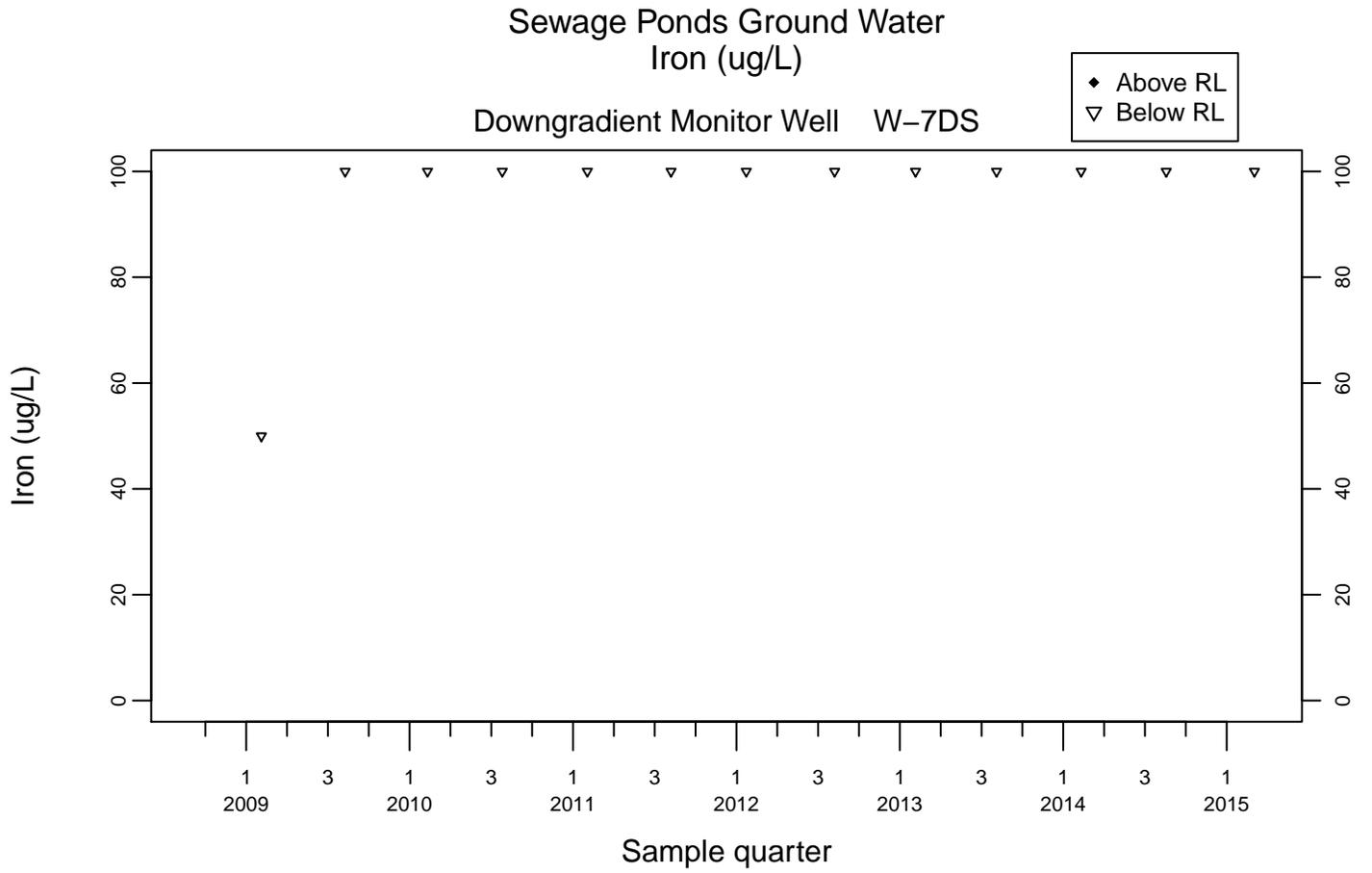
Downgradient Monitor Well W-26R-05

- ◆ Above RL
- ▽ Below RL
- + Estimated



Downgradient Monitor Well W-26R-11

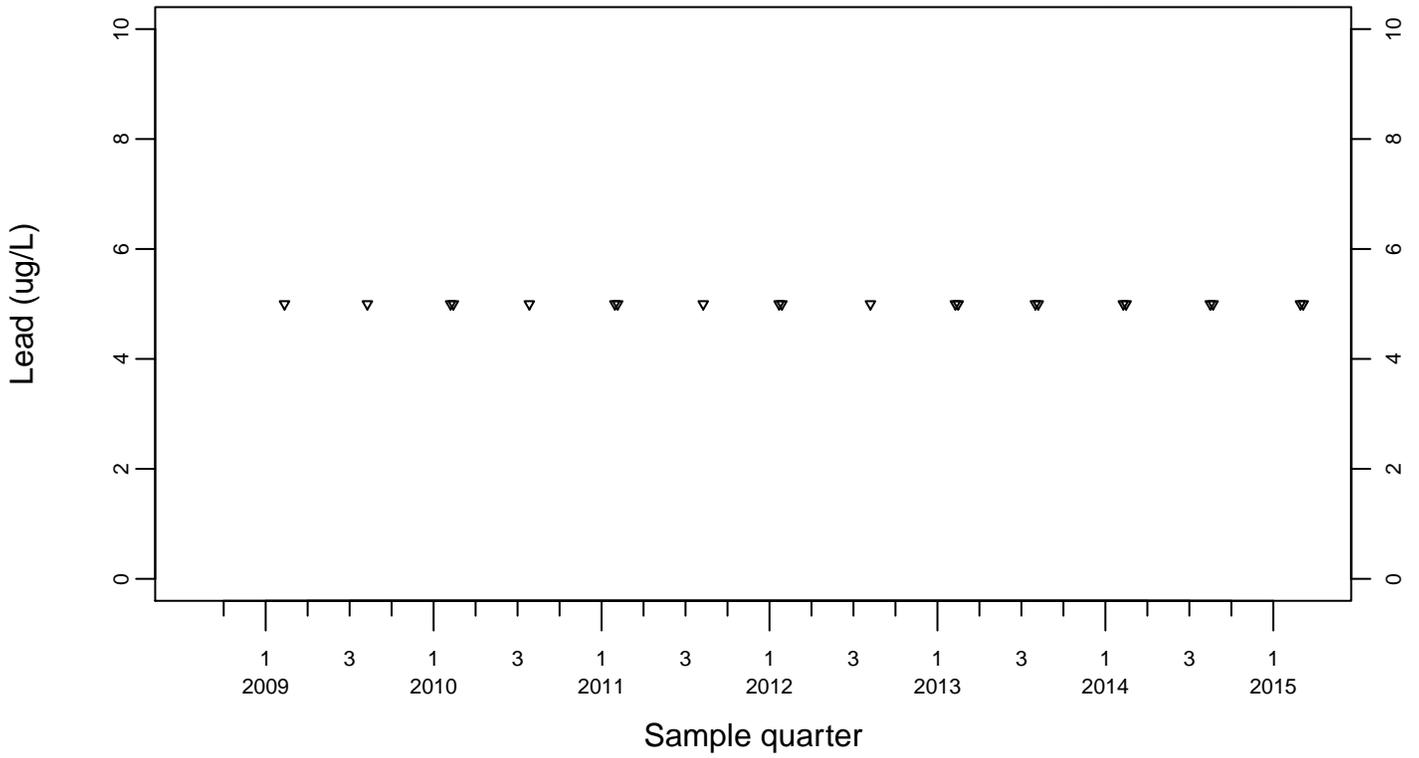




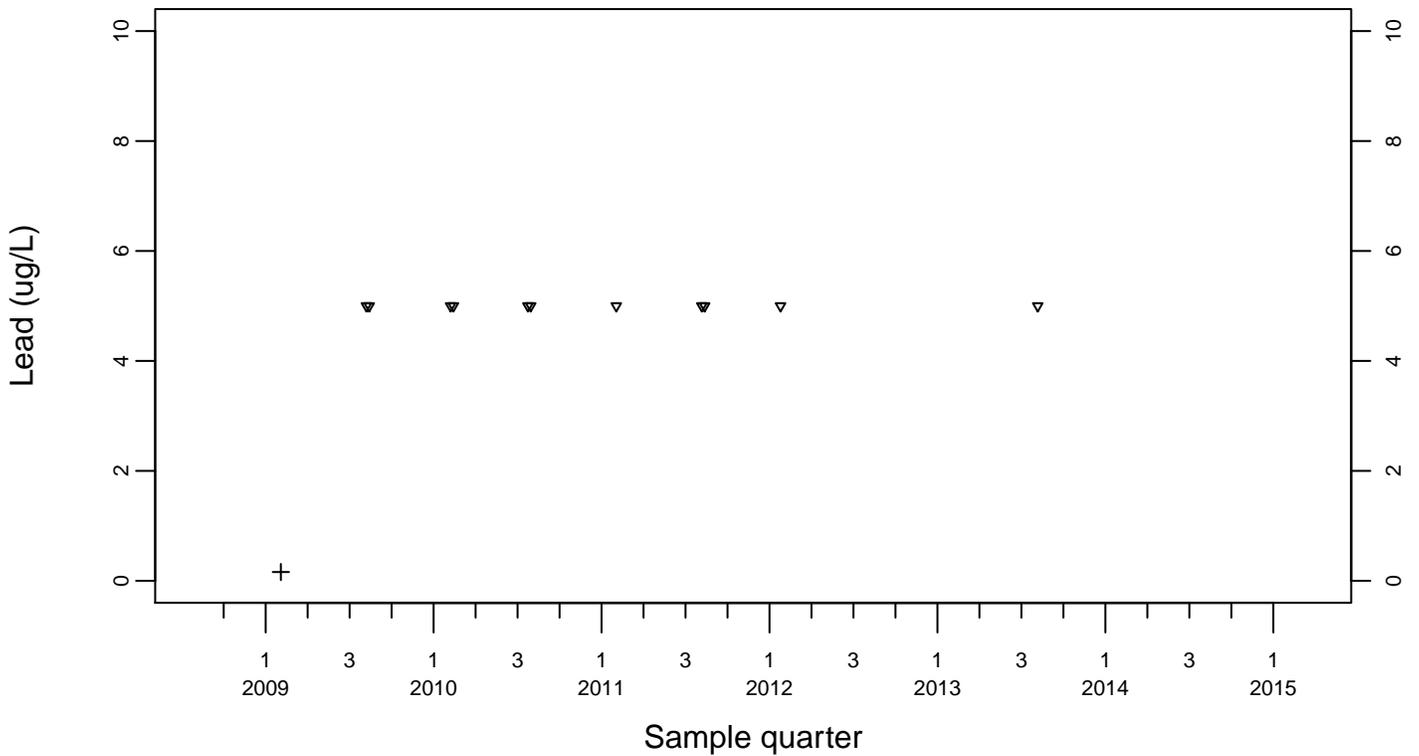
Sewage Ponds Ground Water Lead (ug/L)

Upgradient Monitor Well W-7ES

- ◆ Above RL
- ▽ Below RL
- + Estimated



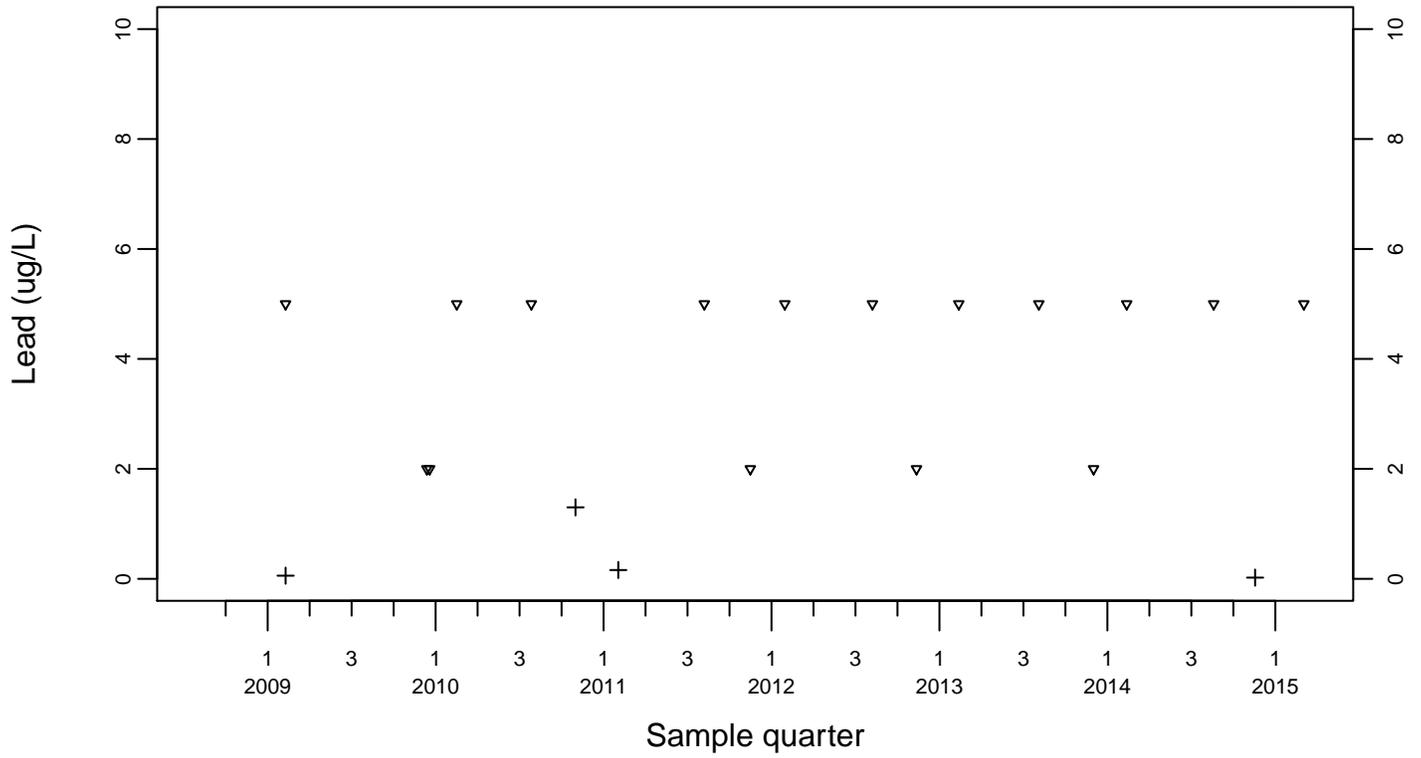
Upgradient Monitor Well W-7PS



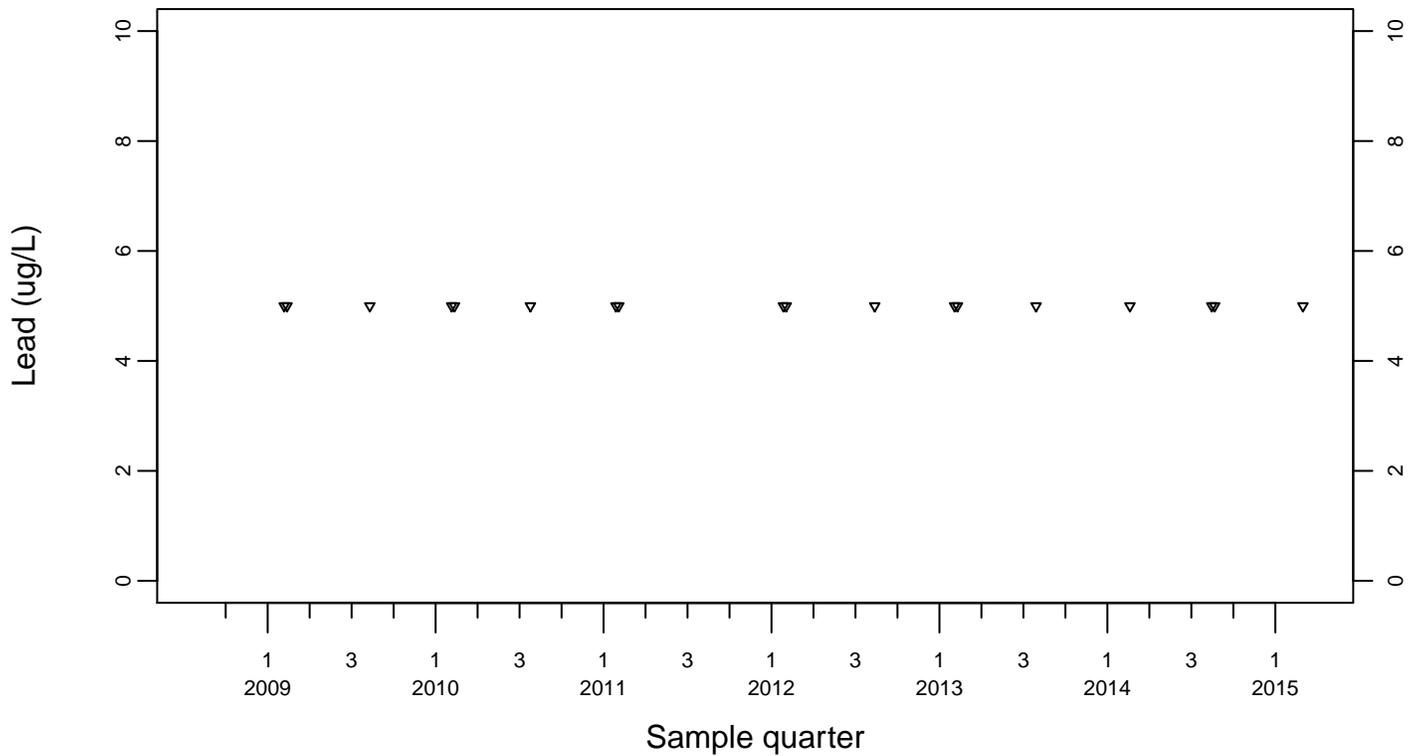
Sewage Ponds Ground Water Lead (ug/L)

Crossgradient Monitor Well W-35A-04

- ◆ Above RL
- ▽ Below RL
- + Estimated



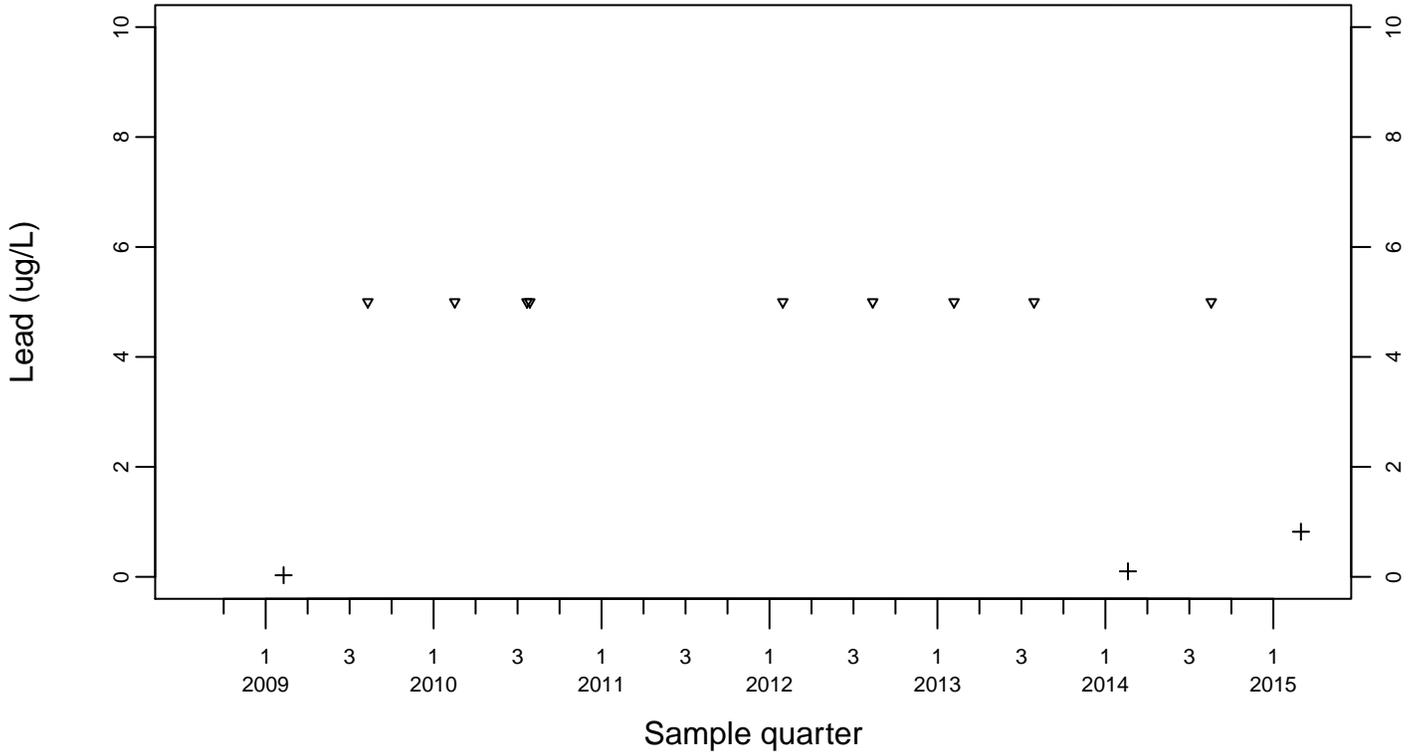
Downgradient Monitor Well W-25N-23



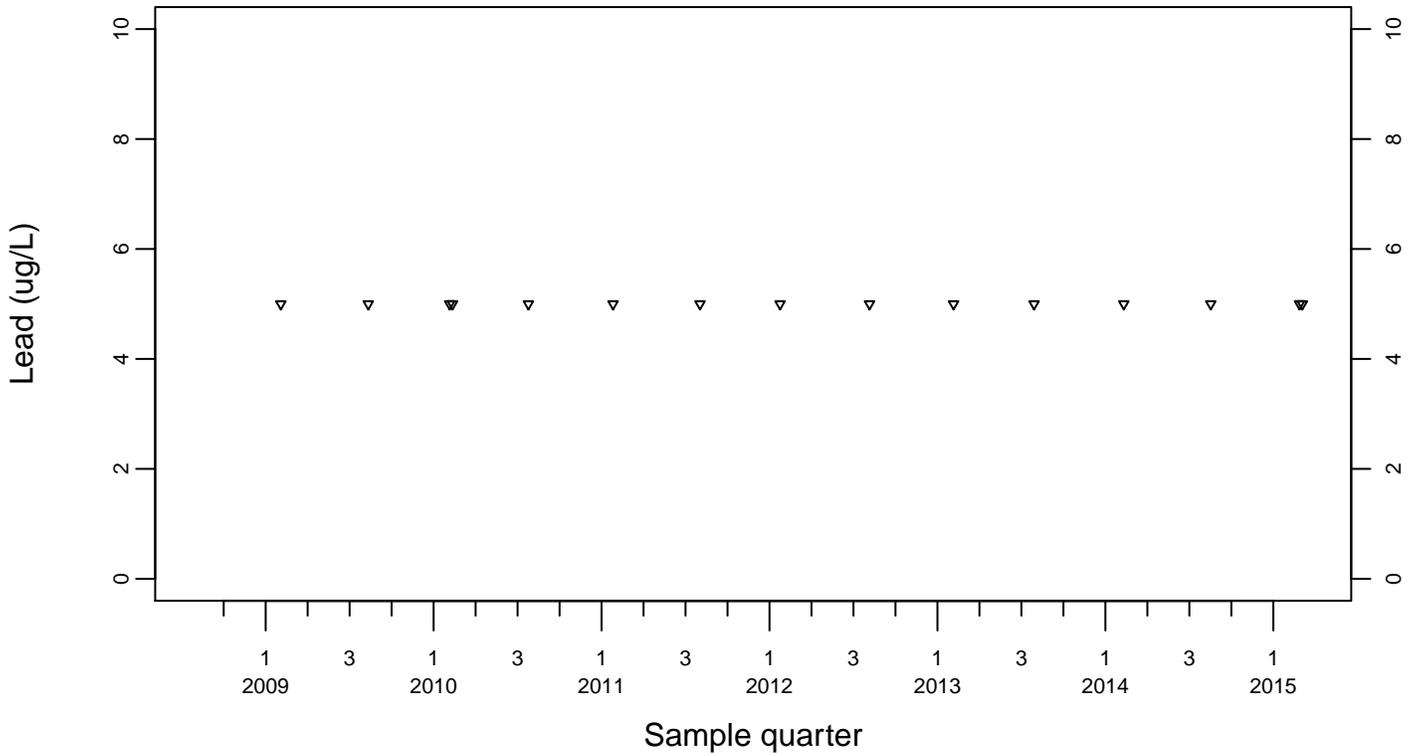
Sewage Ponds Ground Water Lead (ug/L)

Downgradient Monitor Well W-25N-22

- ◆ Above RL
- ▽ Below RL
- + Estimated



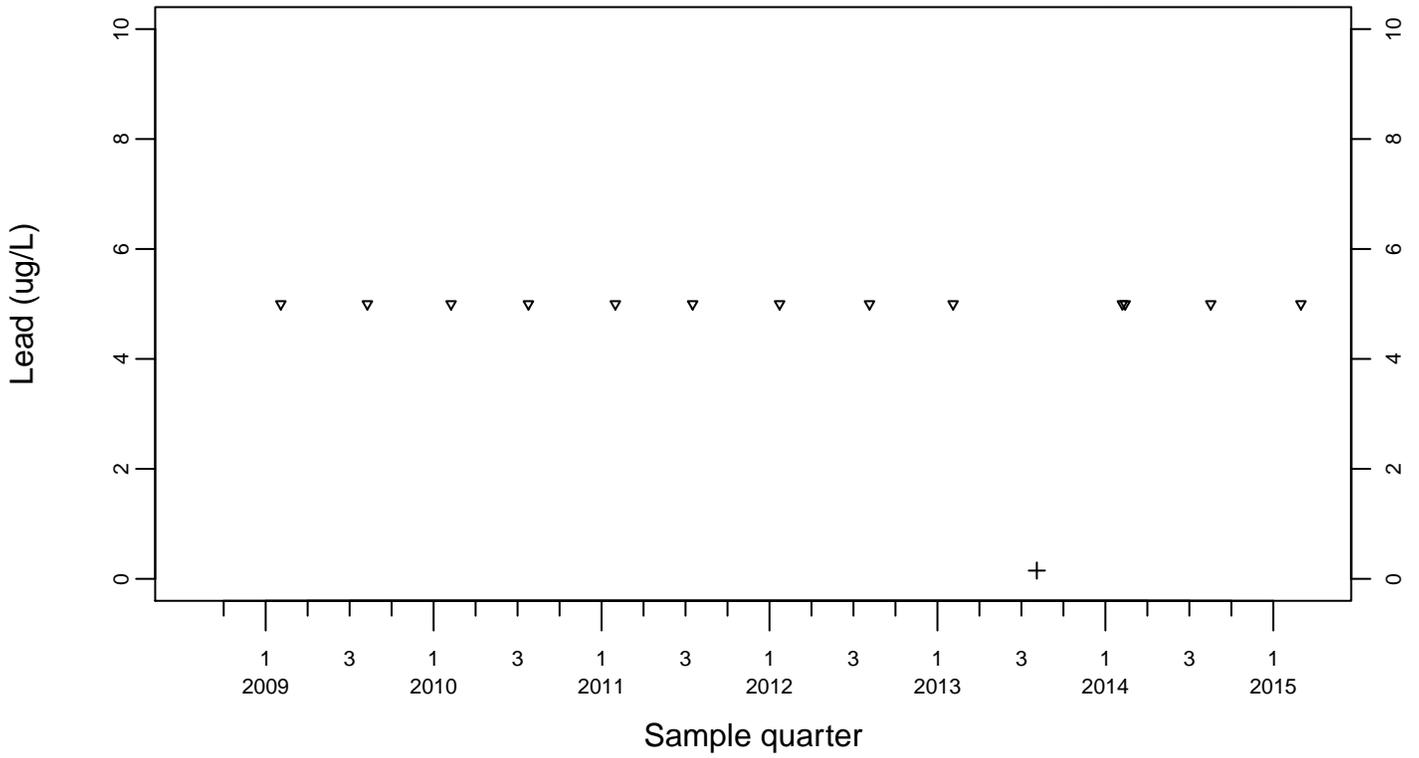
Downgradient Monitor Well W-26R-01



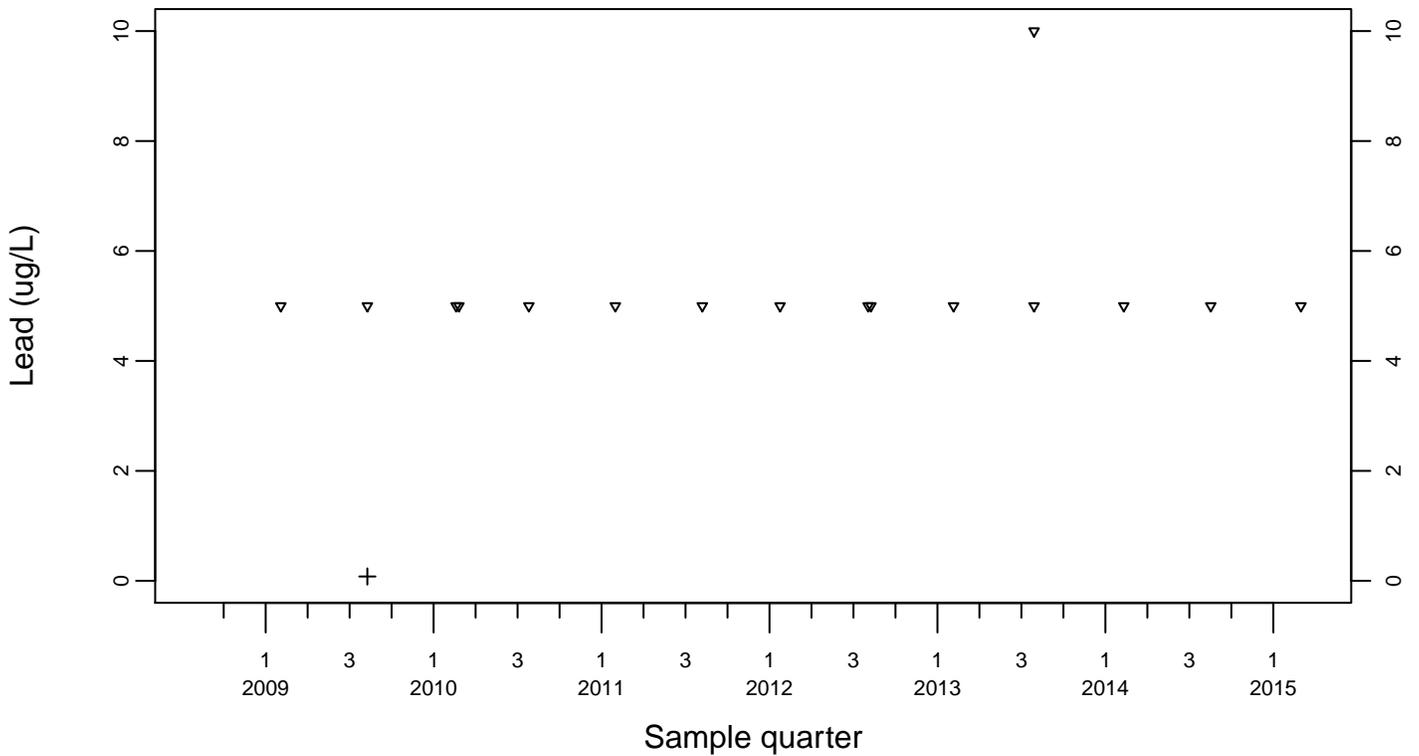
Sewage Ponds Ground Water Lead (ug/L)

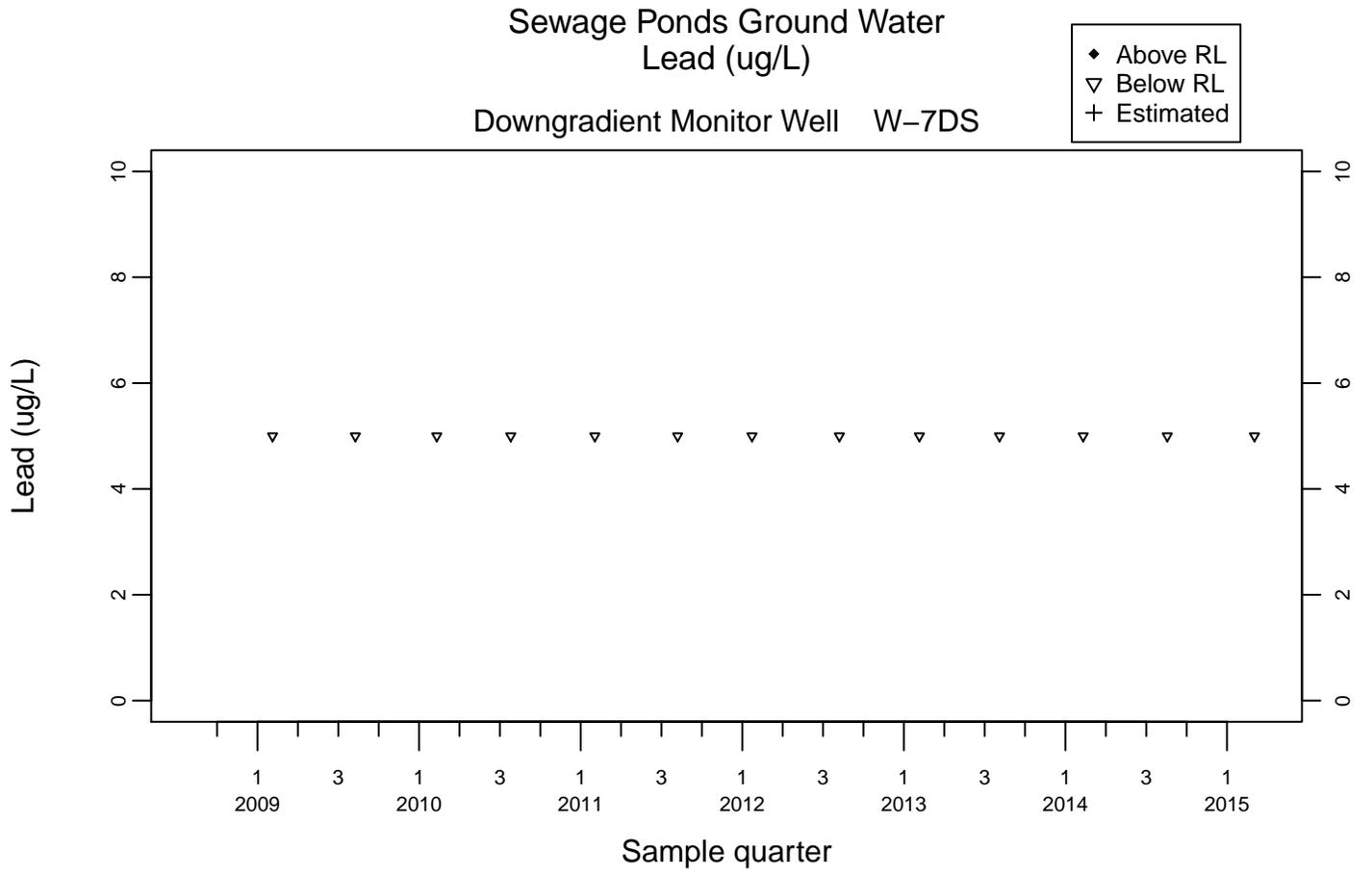
Downgradient Monitor Well W-26R-05

- ◆ Above RL
- ▽ Below RL
- + Estimated



Downgradient Monitor Well W-26R-11

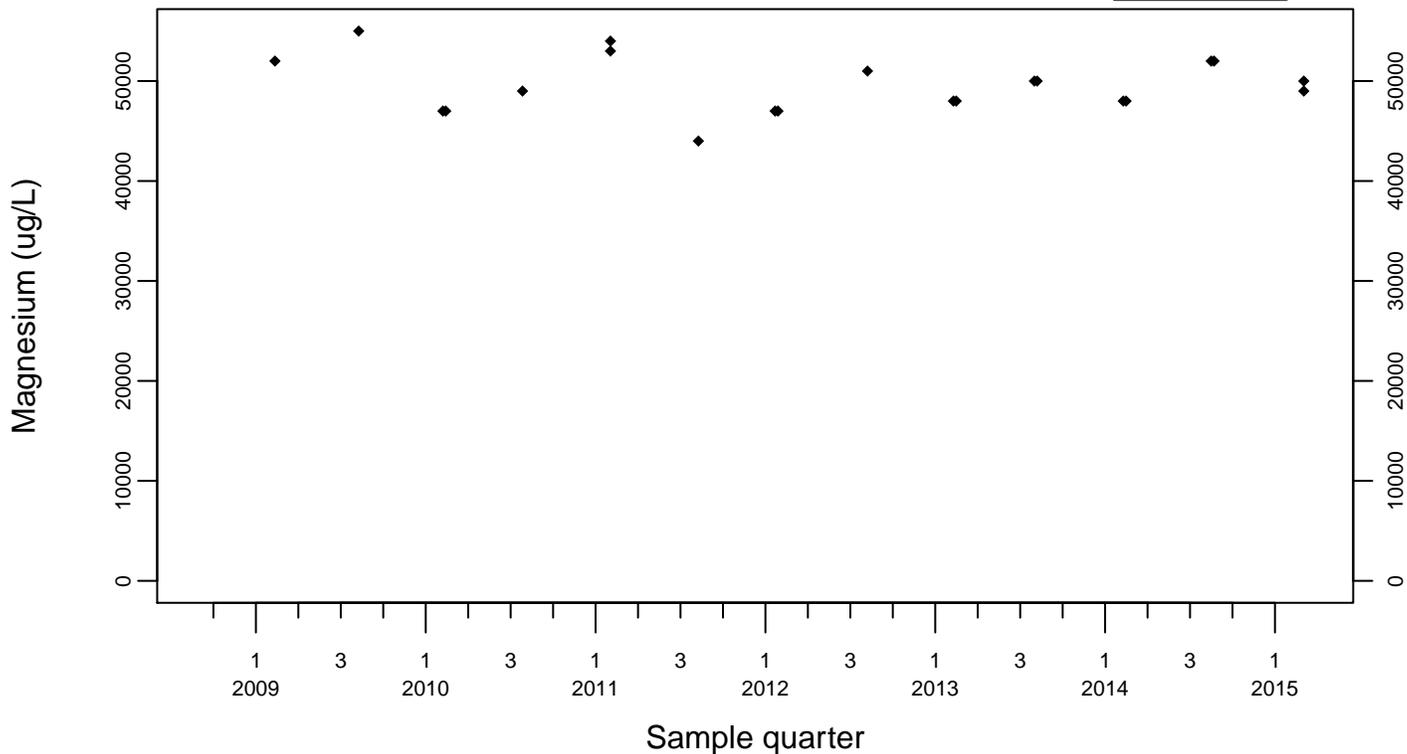




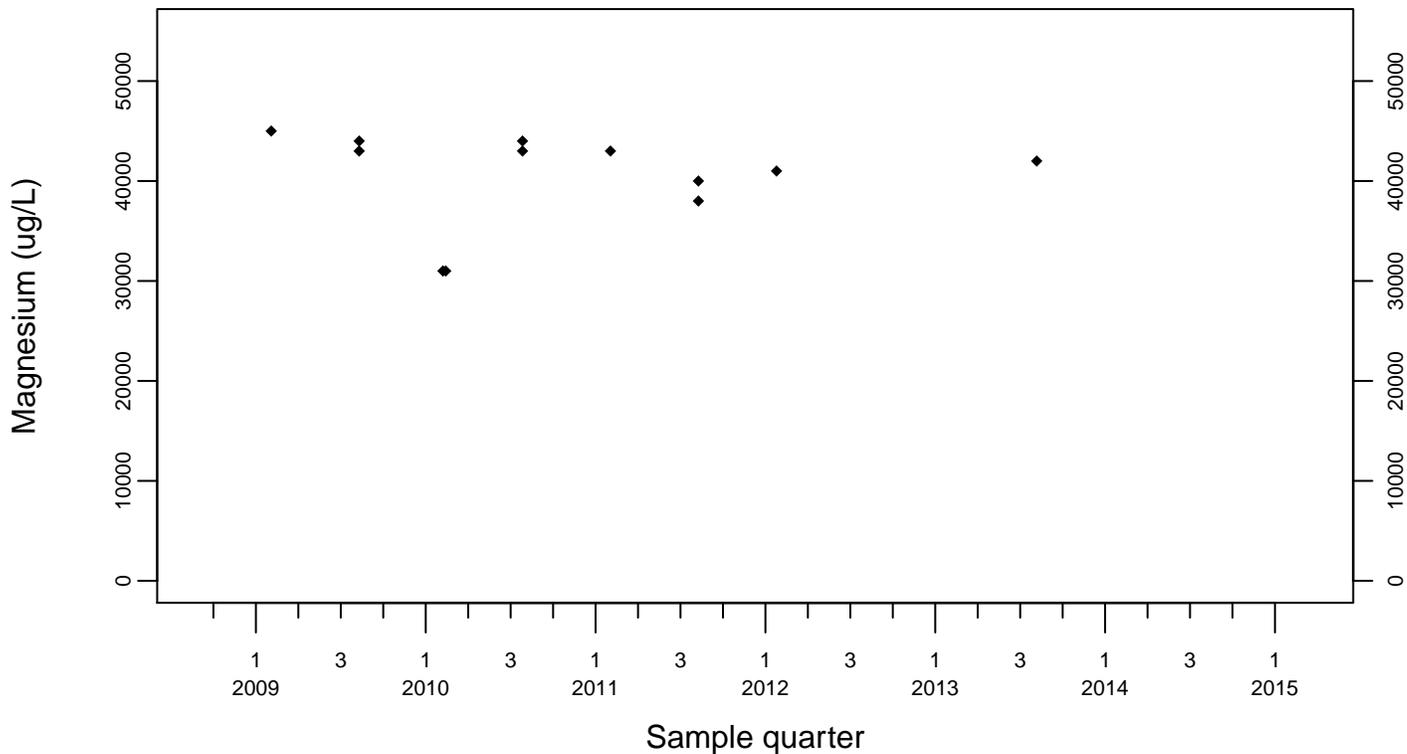
Sewage Ponds Ground Water
 Magnesium (ug/L)

Upgradient Monitor Well W-7ES

◆ Above RL
 ▼ Below RL



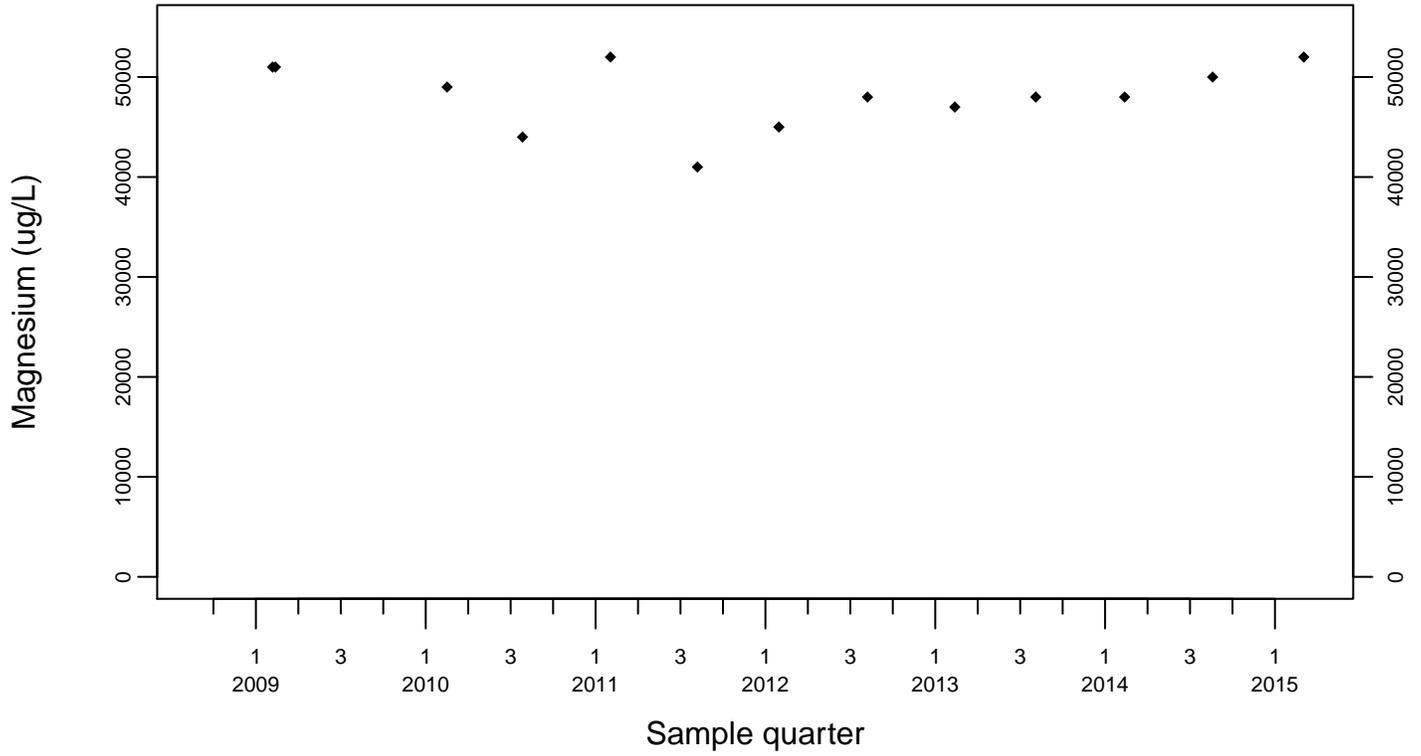
Upgradient Monitor Well W-7PS



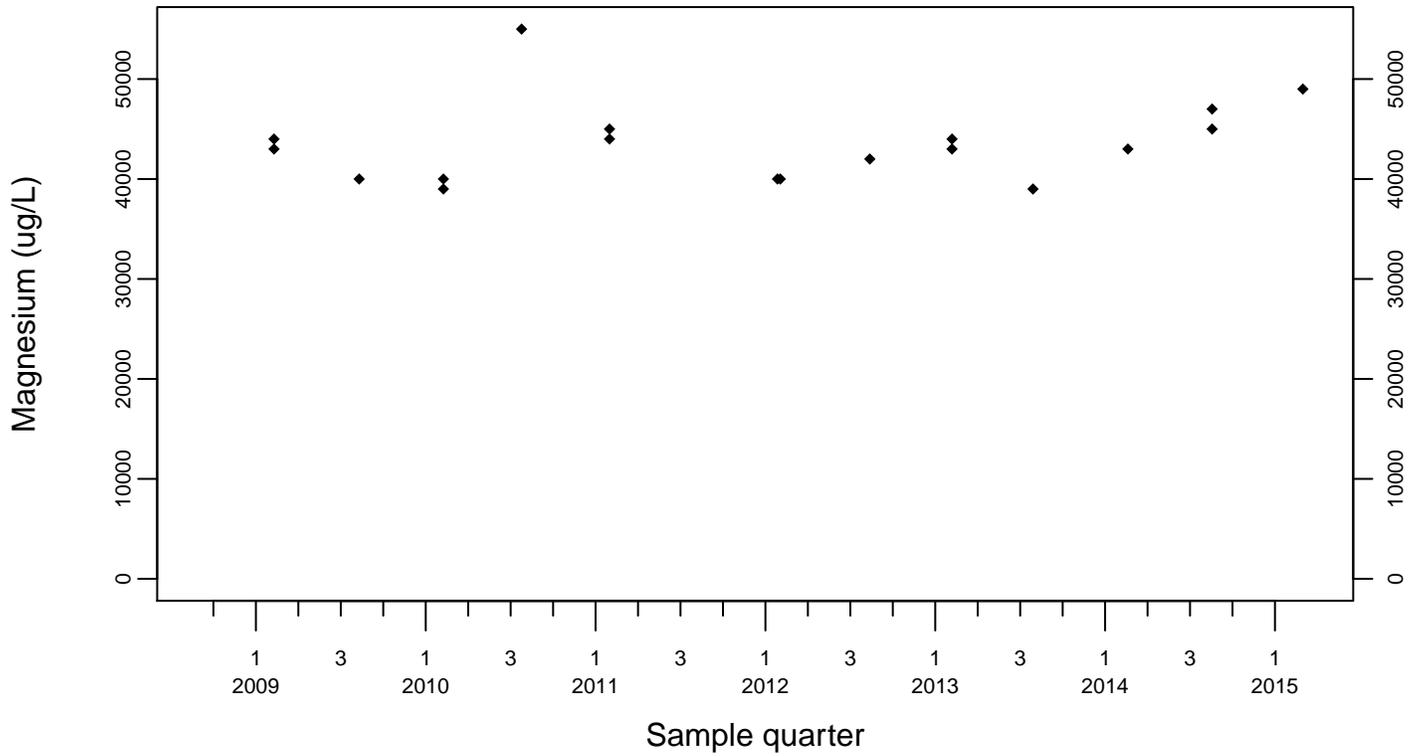
Sewage Ponds Ground Water Magnesium (ug/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



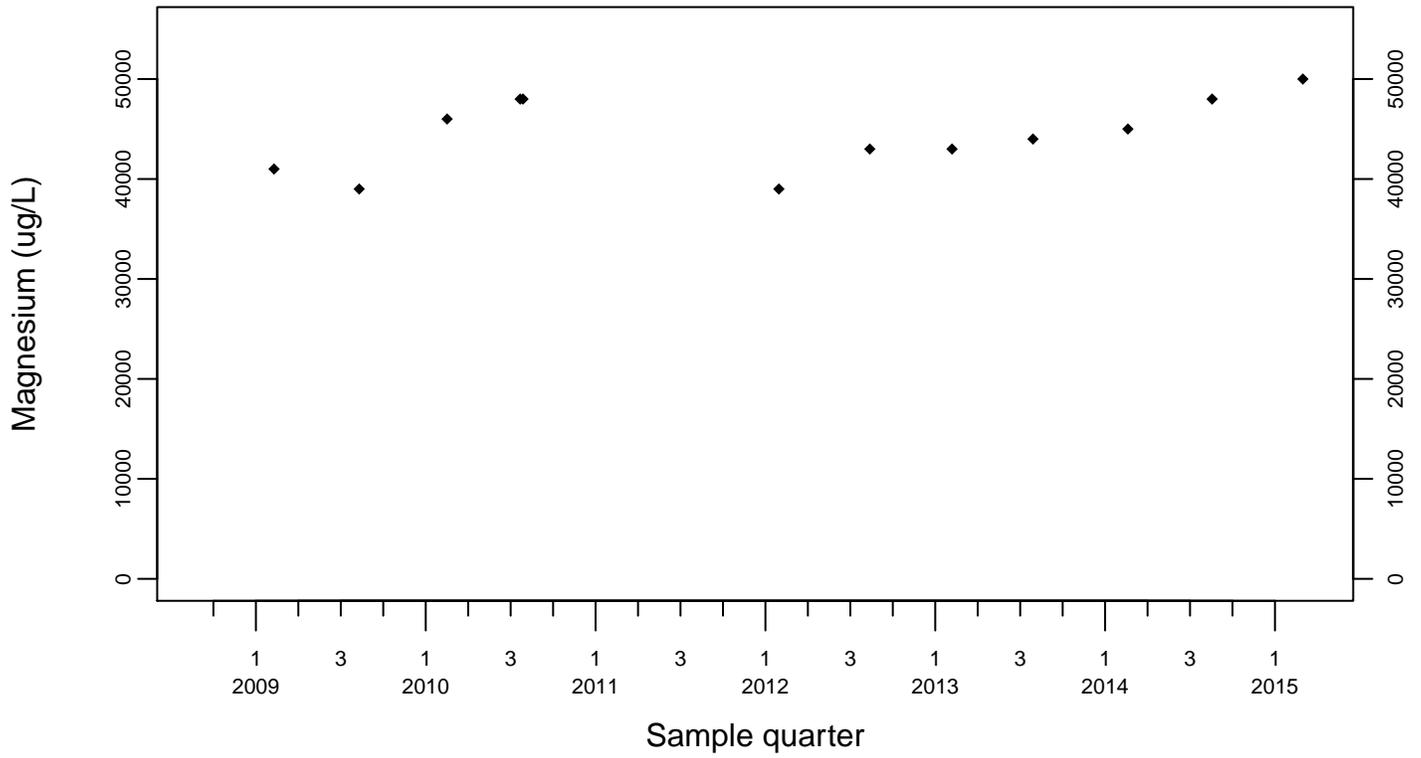
Downgradient Monitor Well W-25N-23



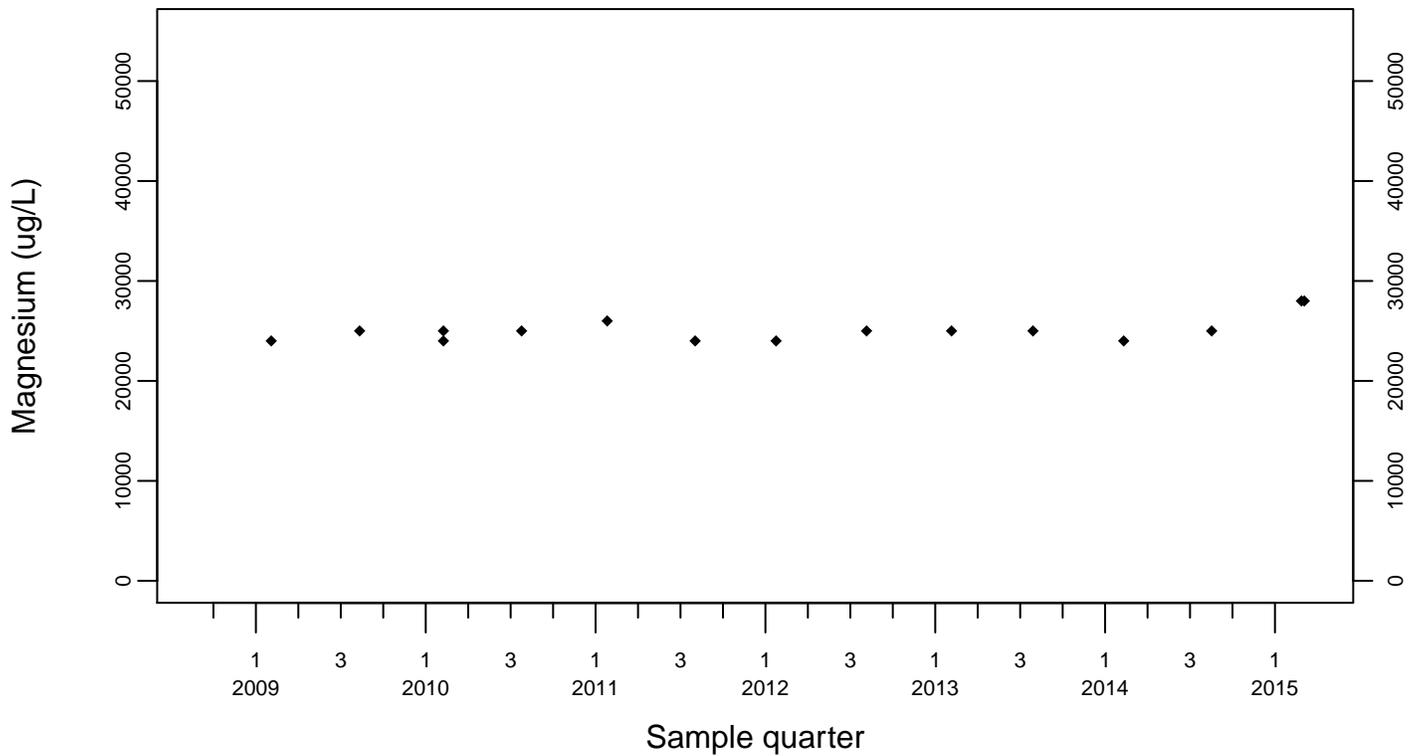
Sewage Ponds Ground Water Magnesium (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



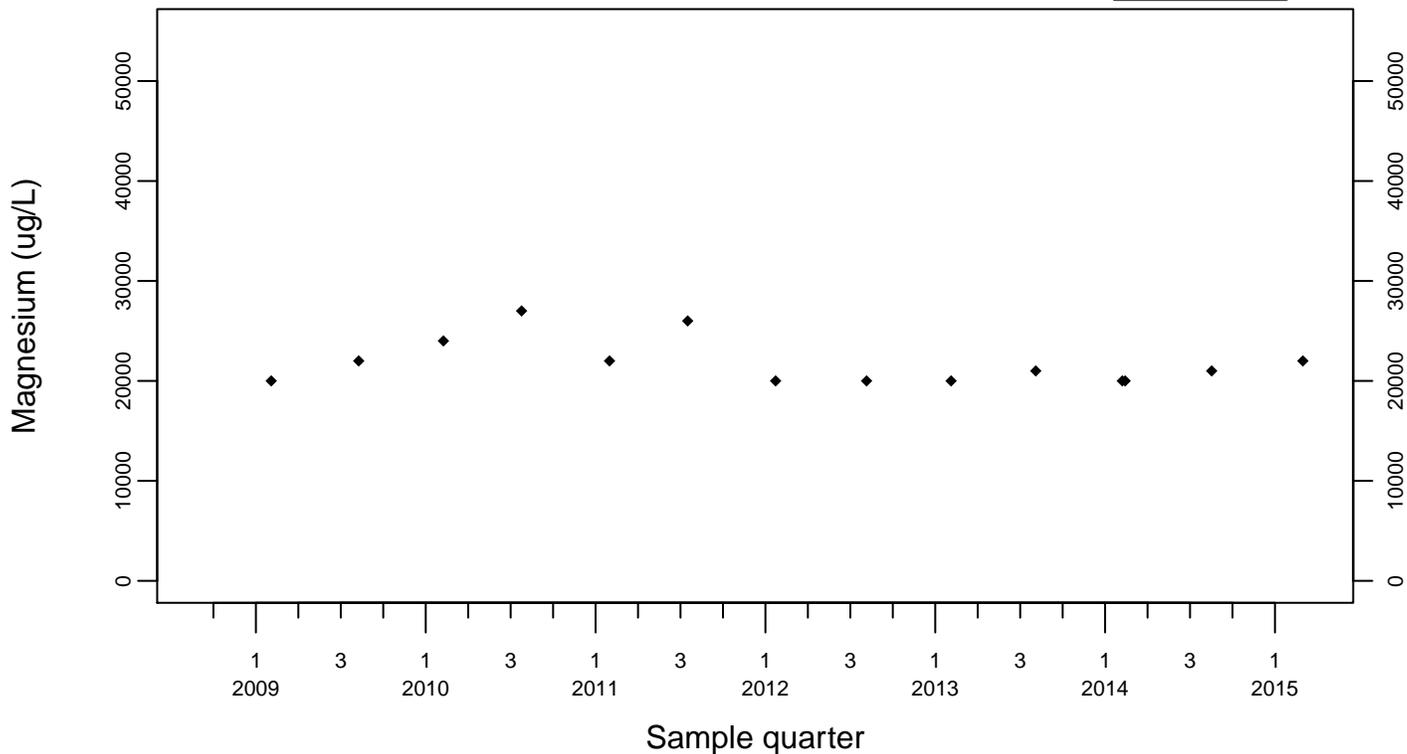
Downgradient Monitor Well W-26R-01



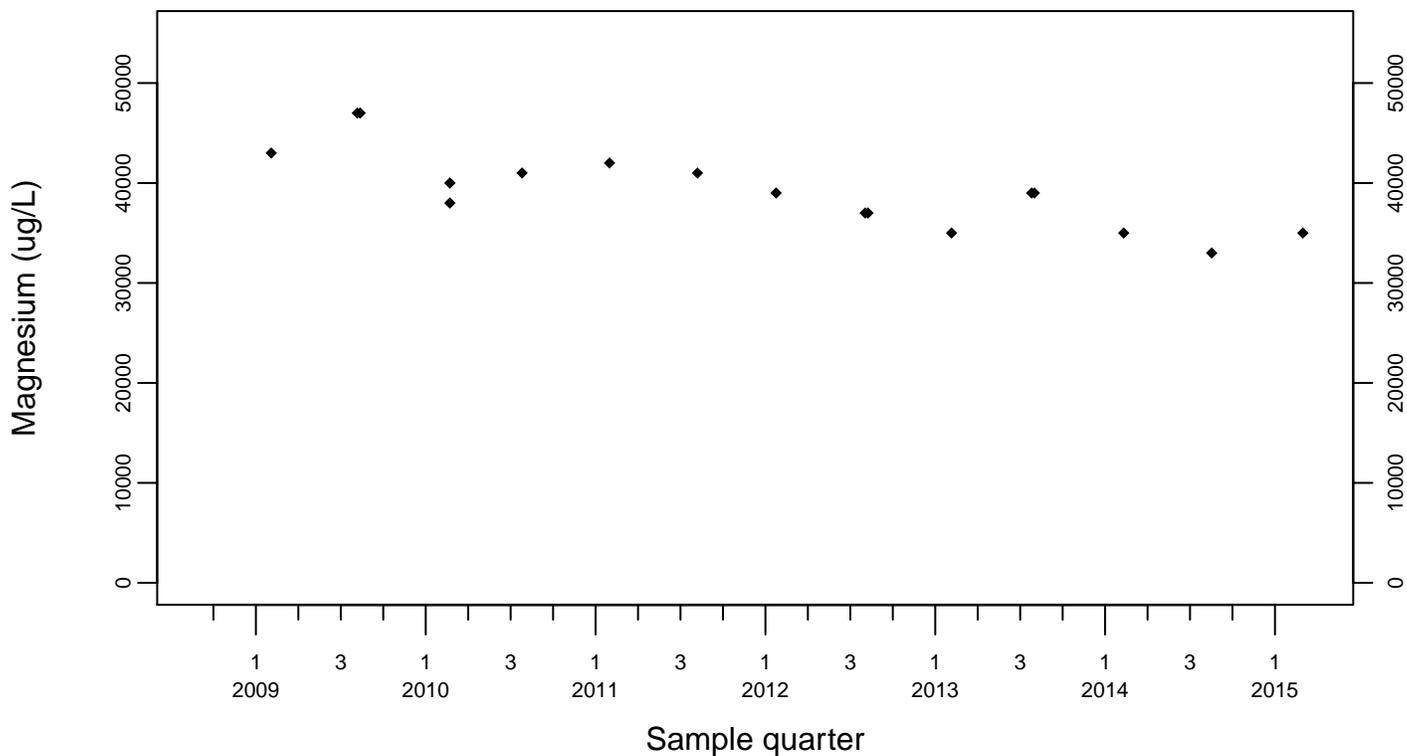
Sewage Ponds Ground Water Magnesium (ug/L)

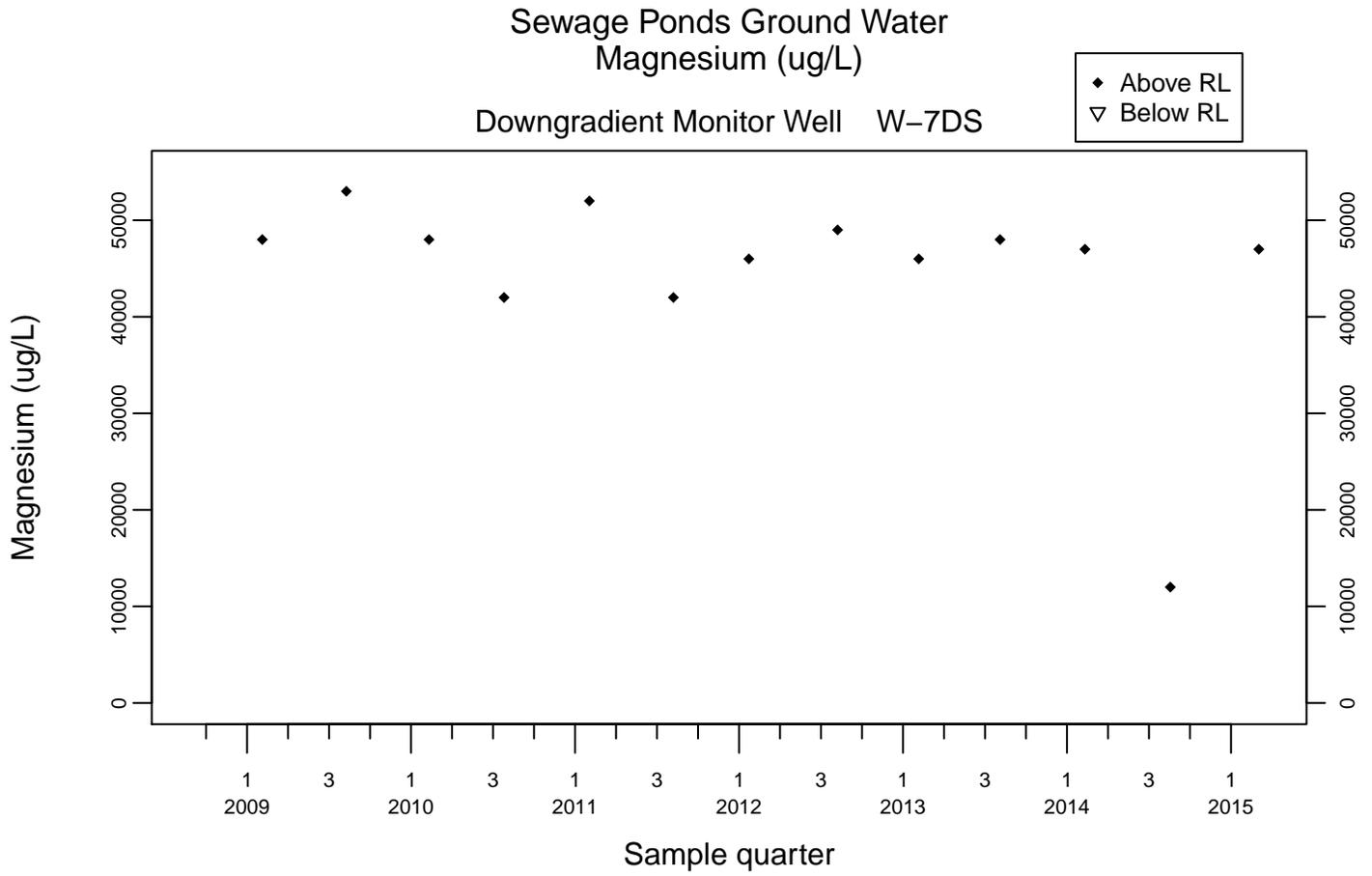
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

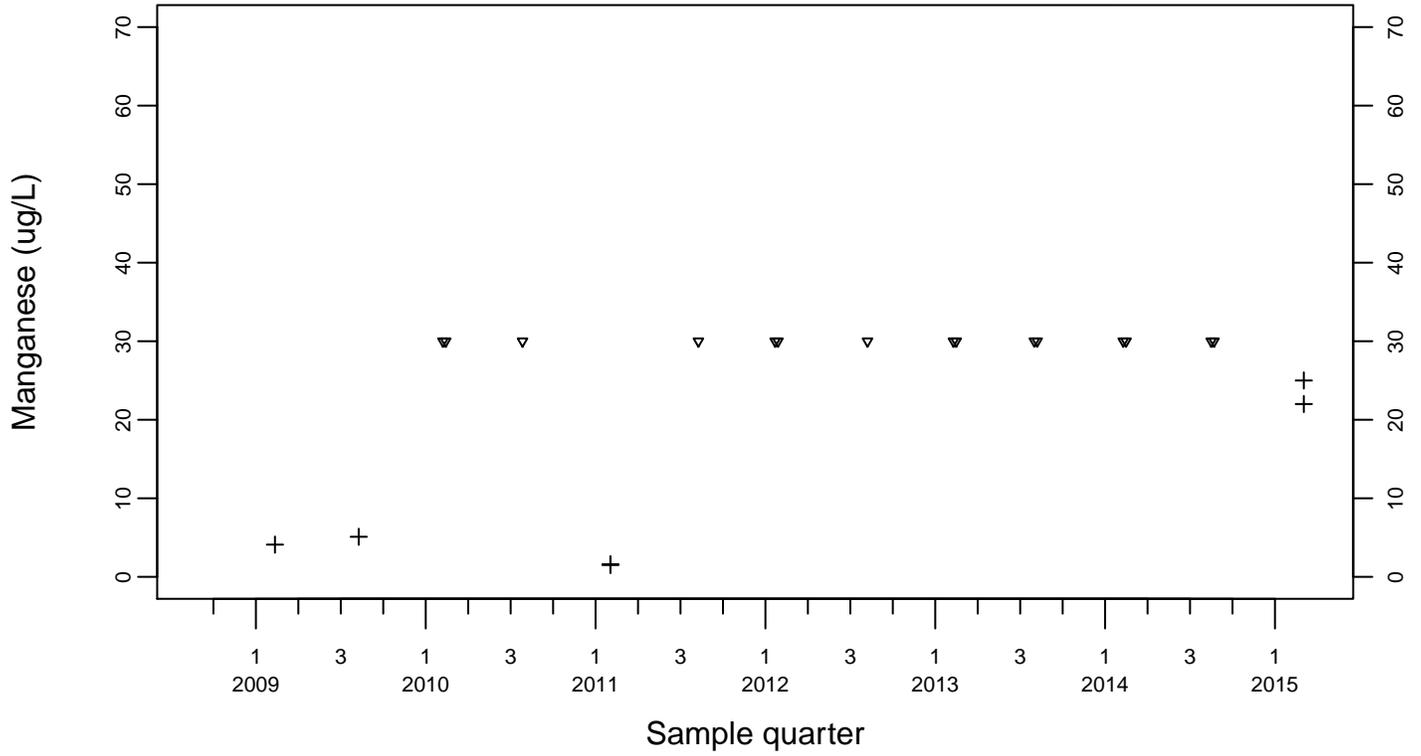




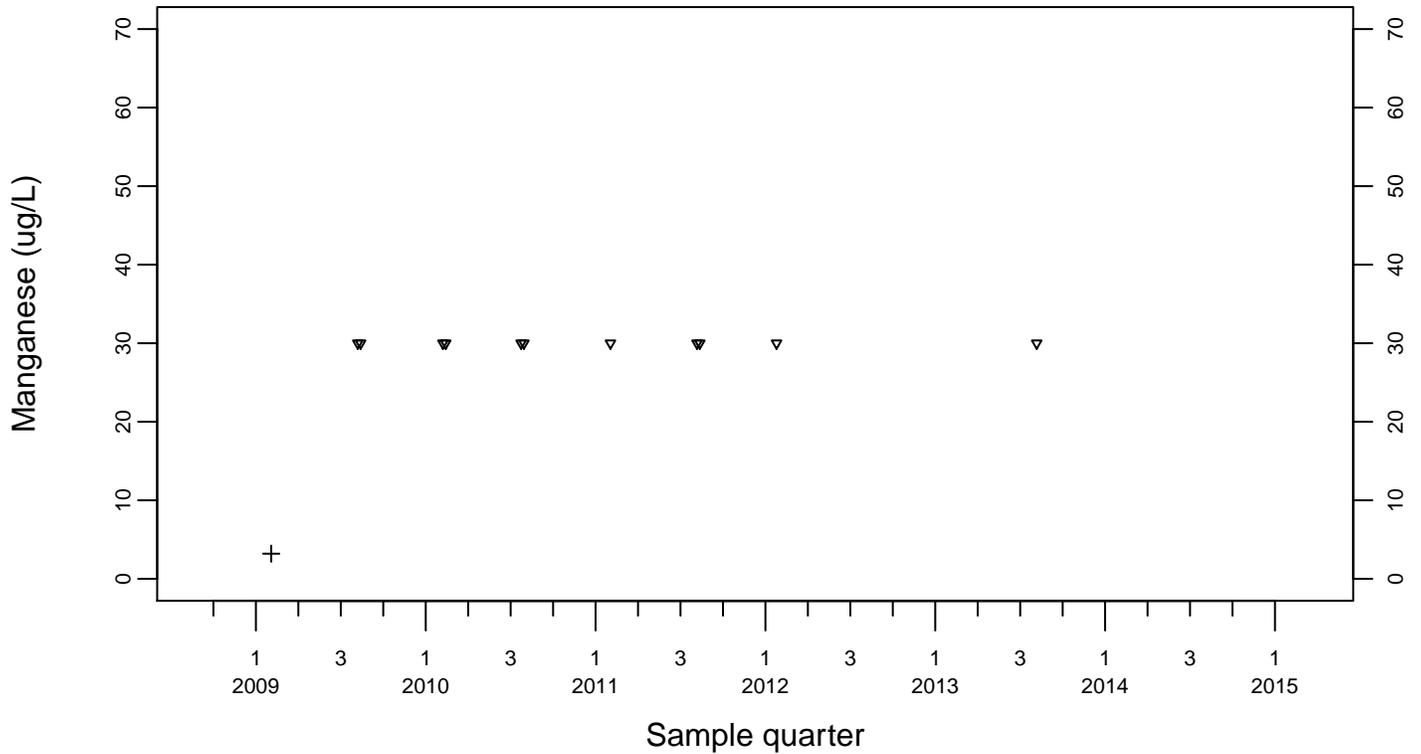
Sewage Ponds Ground Water Manganese (ug/L)

Upgradient Monitor Well W-7ES

- ◆ Above RL
- ▽ Below RL
- + Estimated



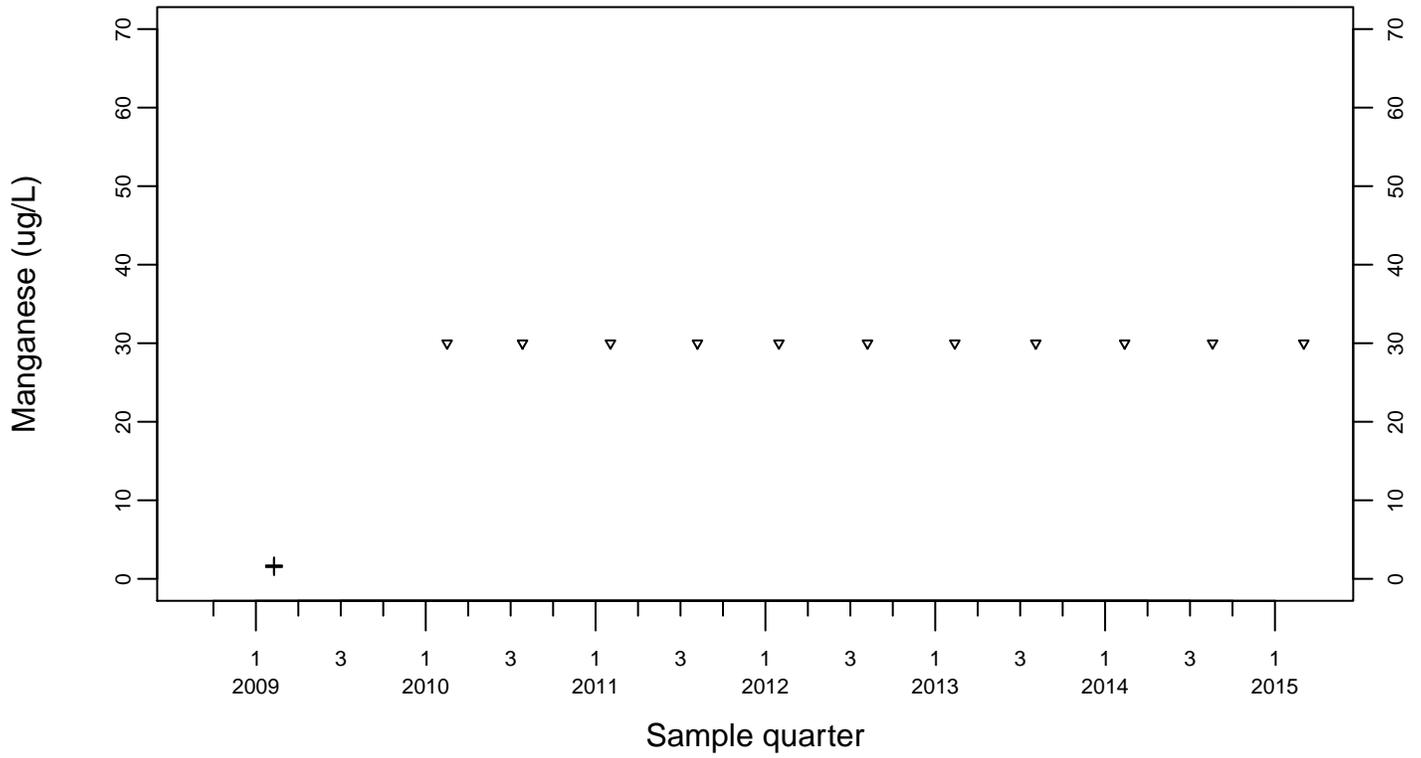
Upgradient Monitor Well W-7PS



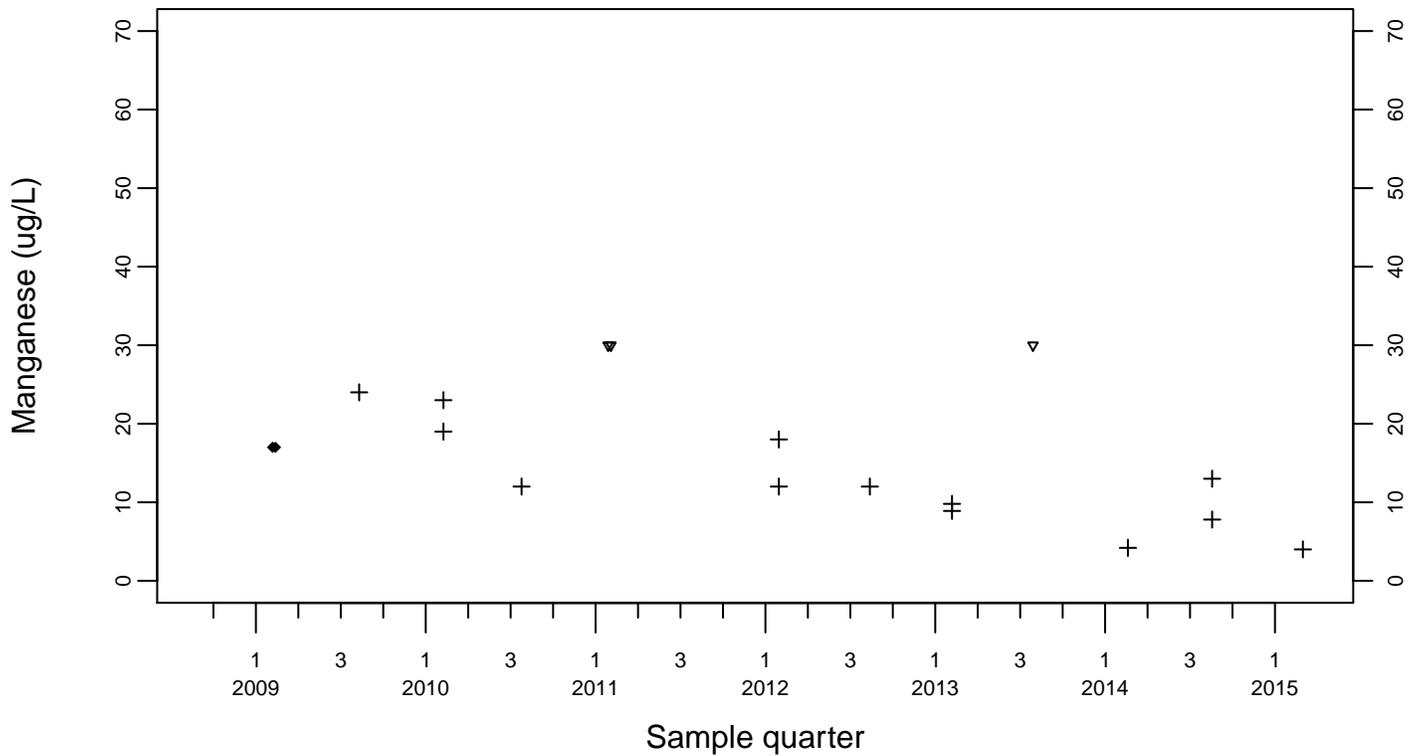
Sewage Ponds Ground Water
 Manganese (ug/L)

Crossgradient Monitor Well W-35A-04

- ◆ Above RL
- ▽ Below RL
- + Estimated



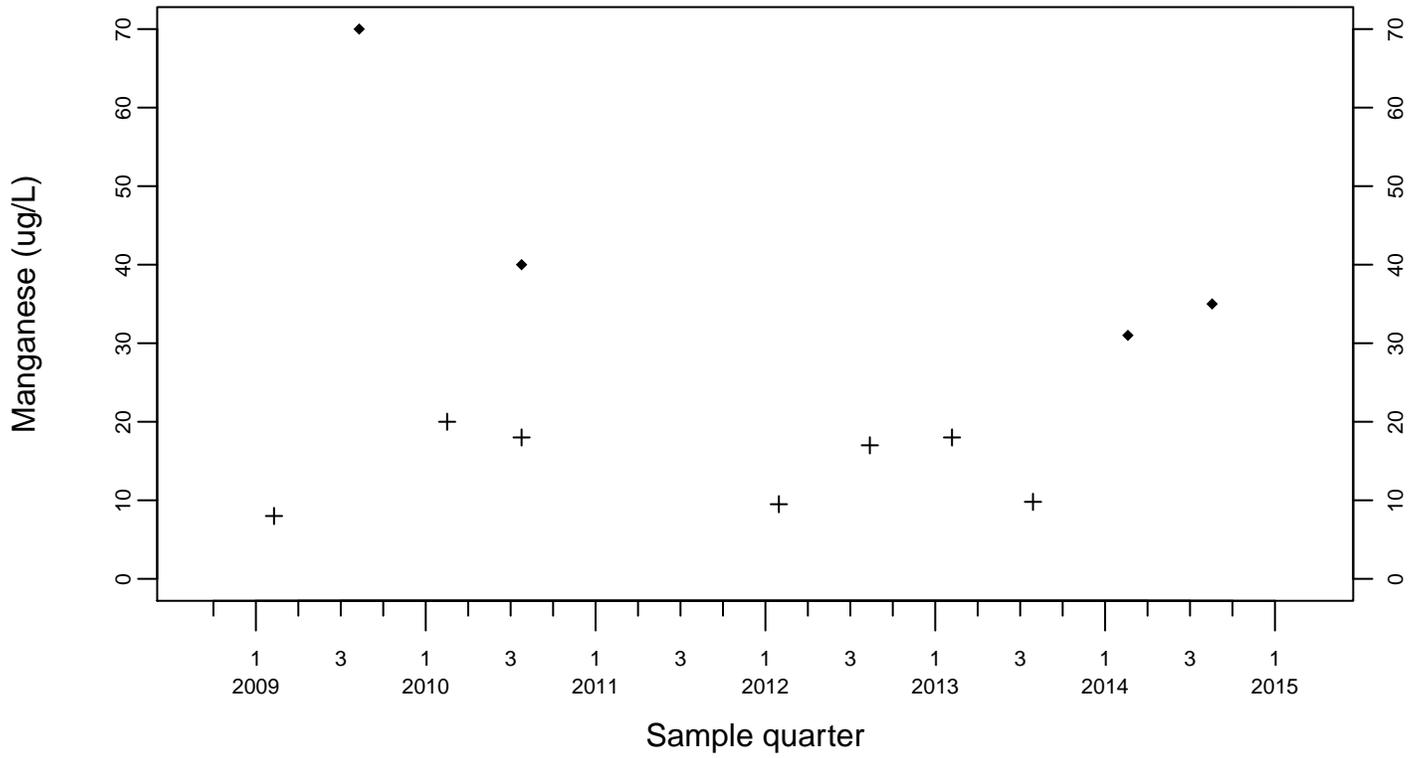
Downgradient Monitor Well W-25N-23



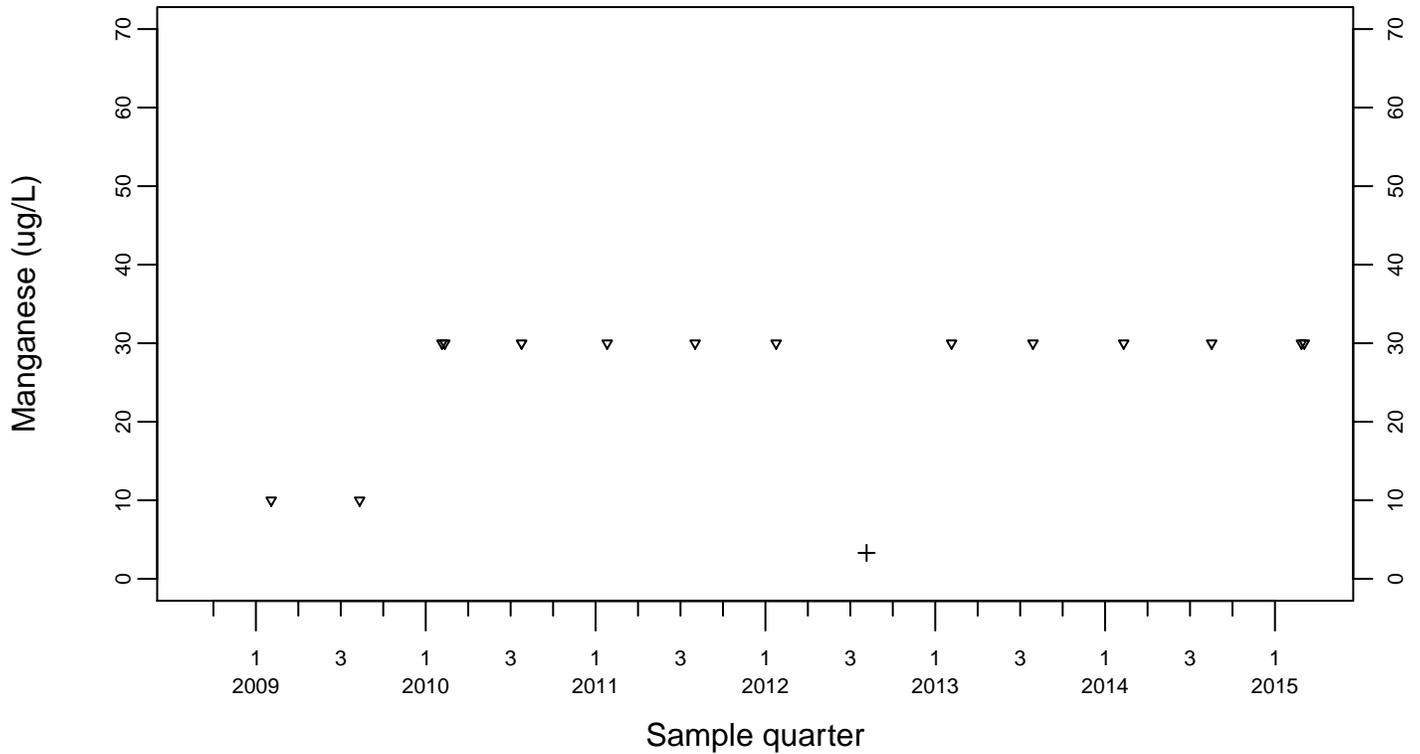
Sewage Ponds Ground Water Manganese (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
+ Estimated



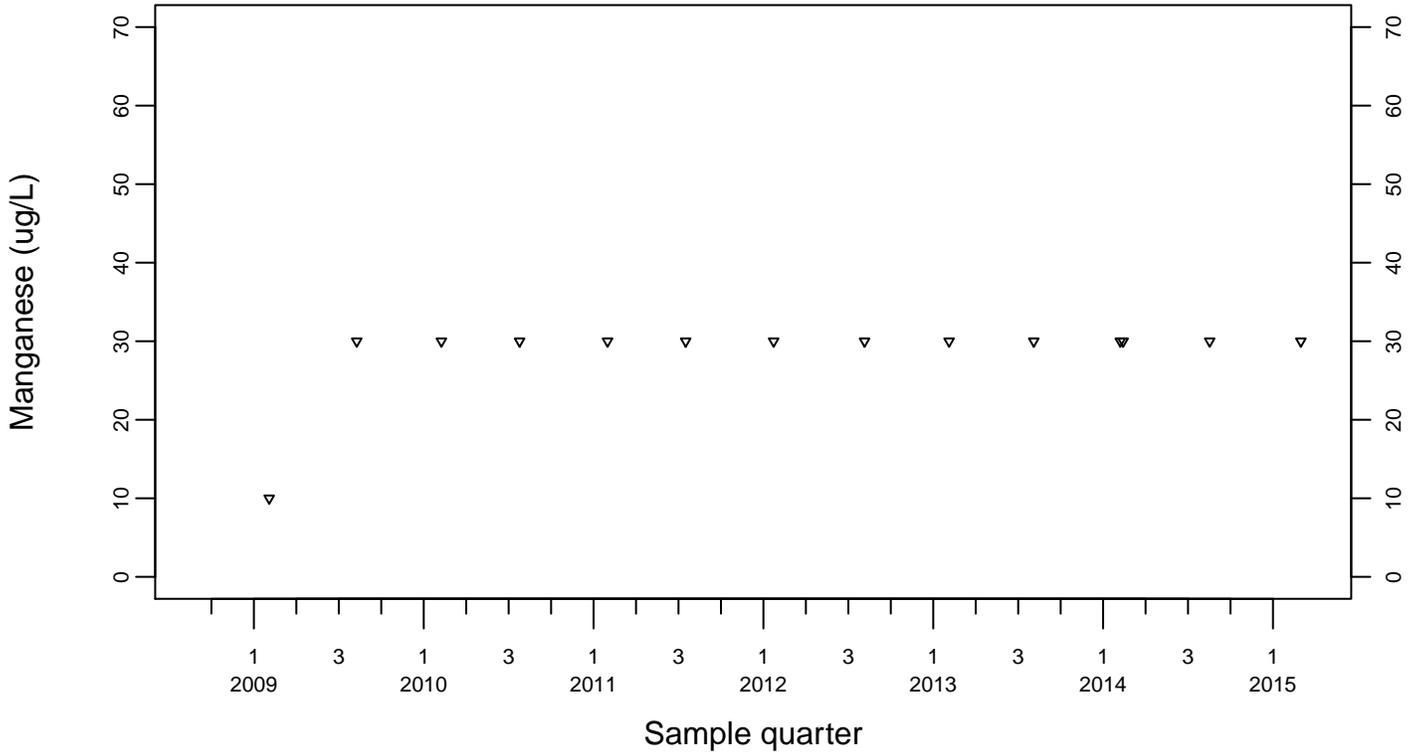
Downgradient Monitor Well W-26R-01



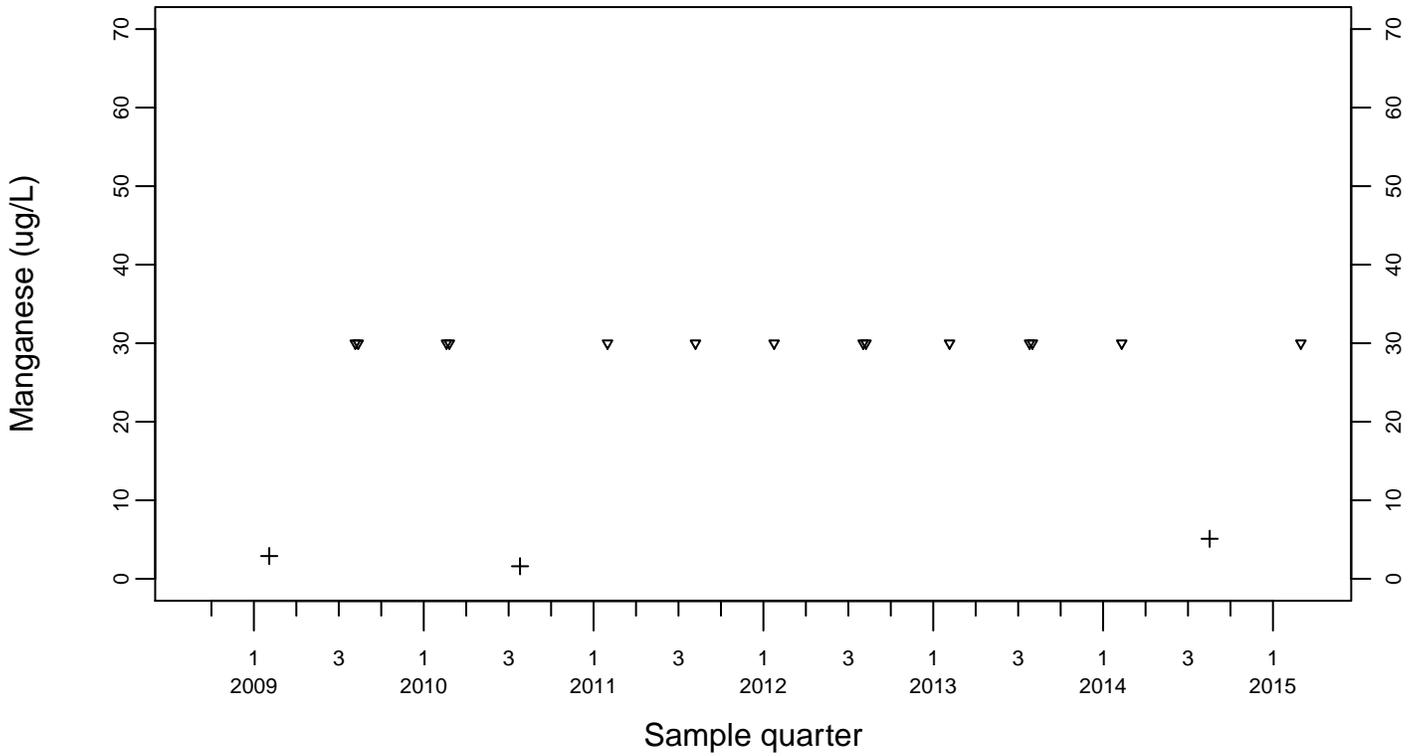
Sewage Ponds Ground Water Manganese (ug/L)

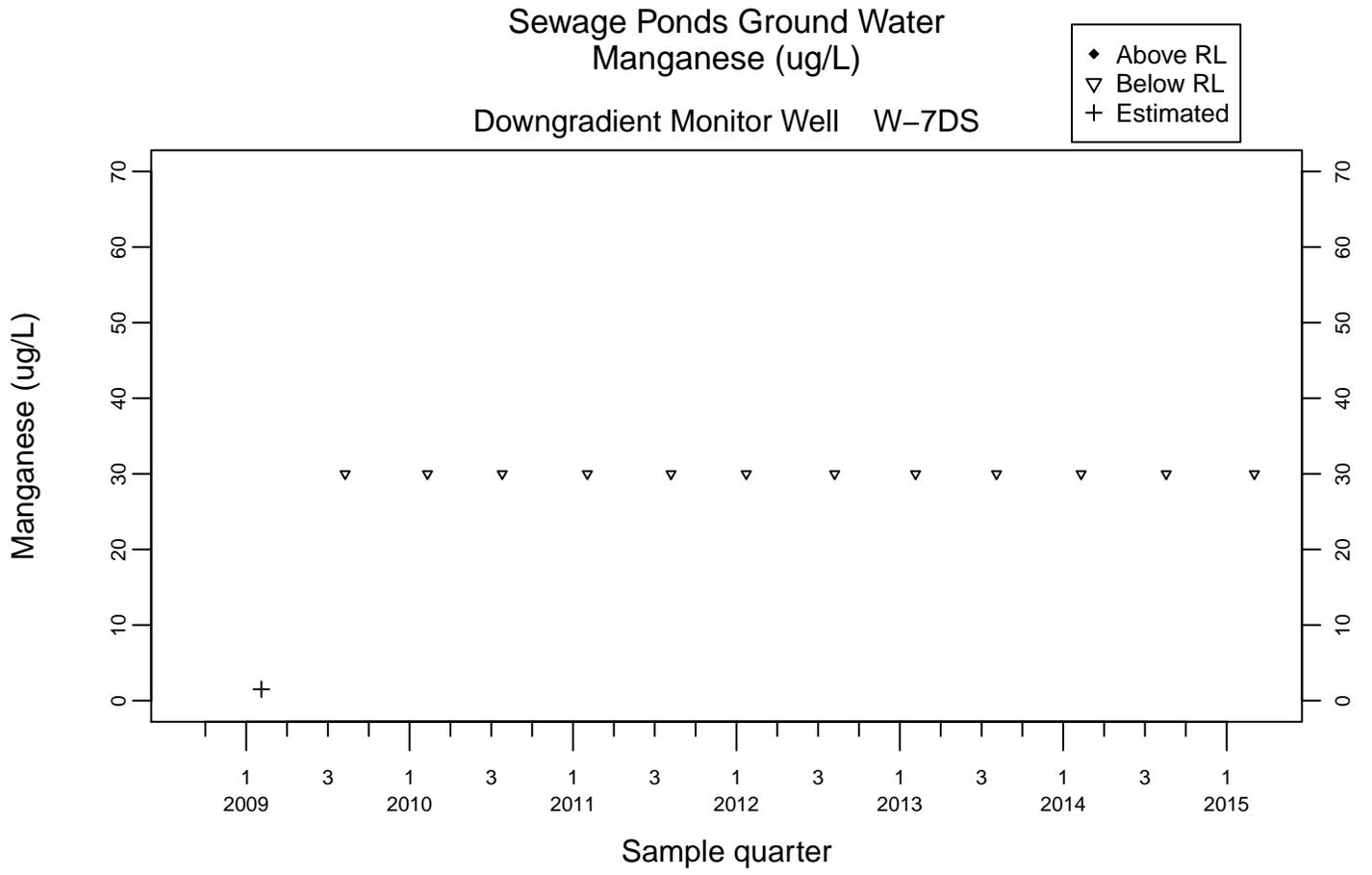
Downgradient Monitor Well W-26R-05

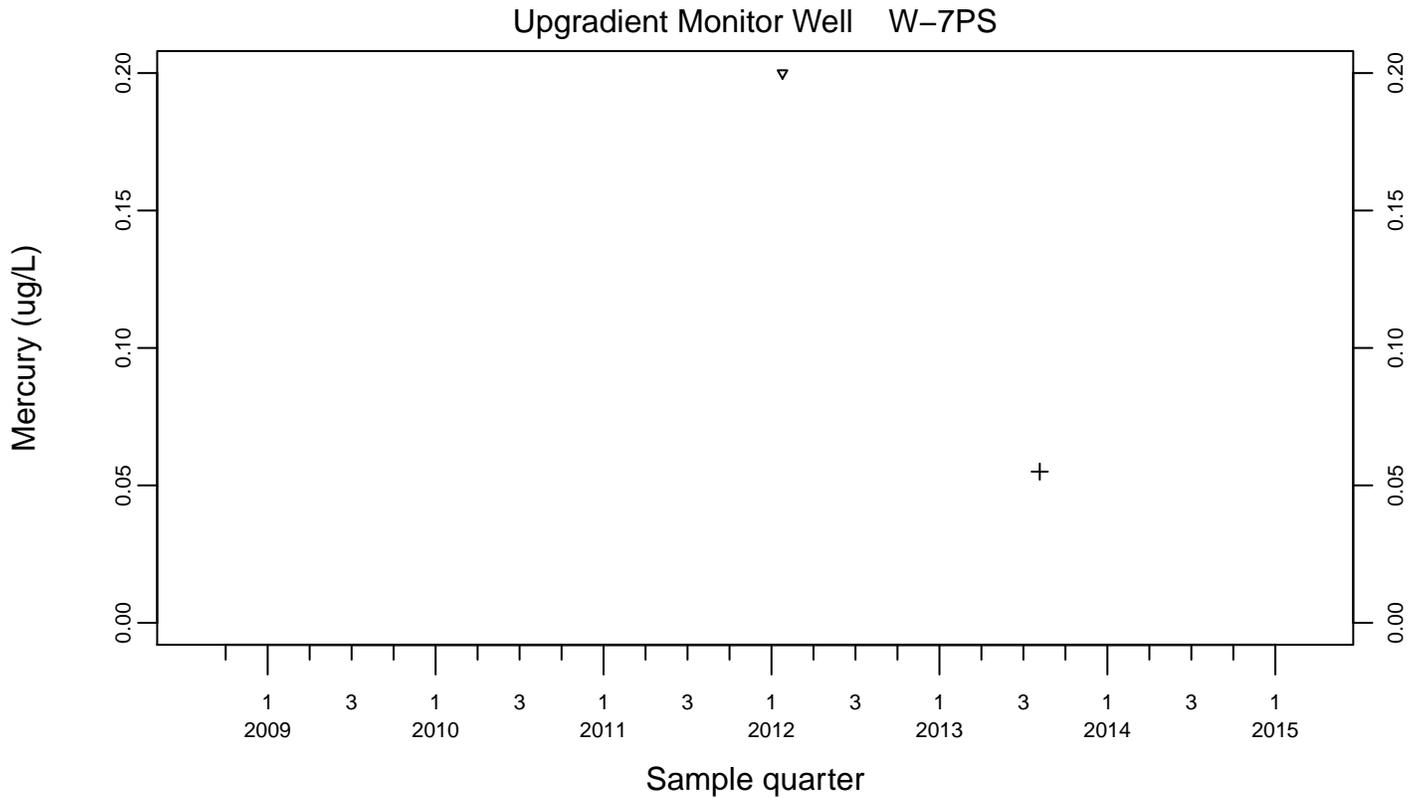
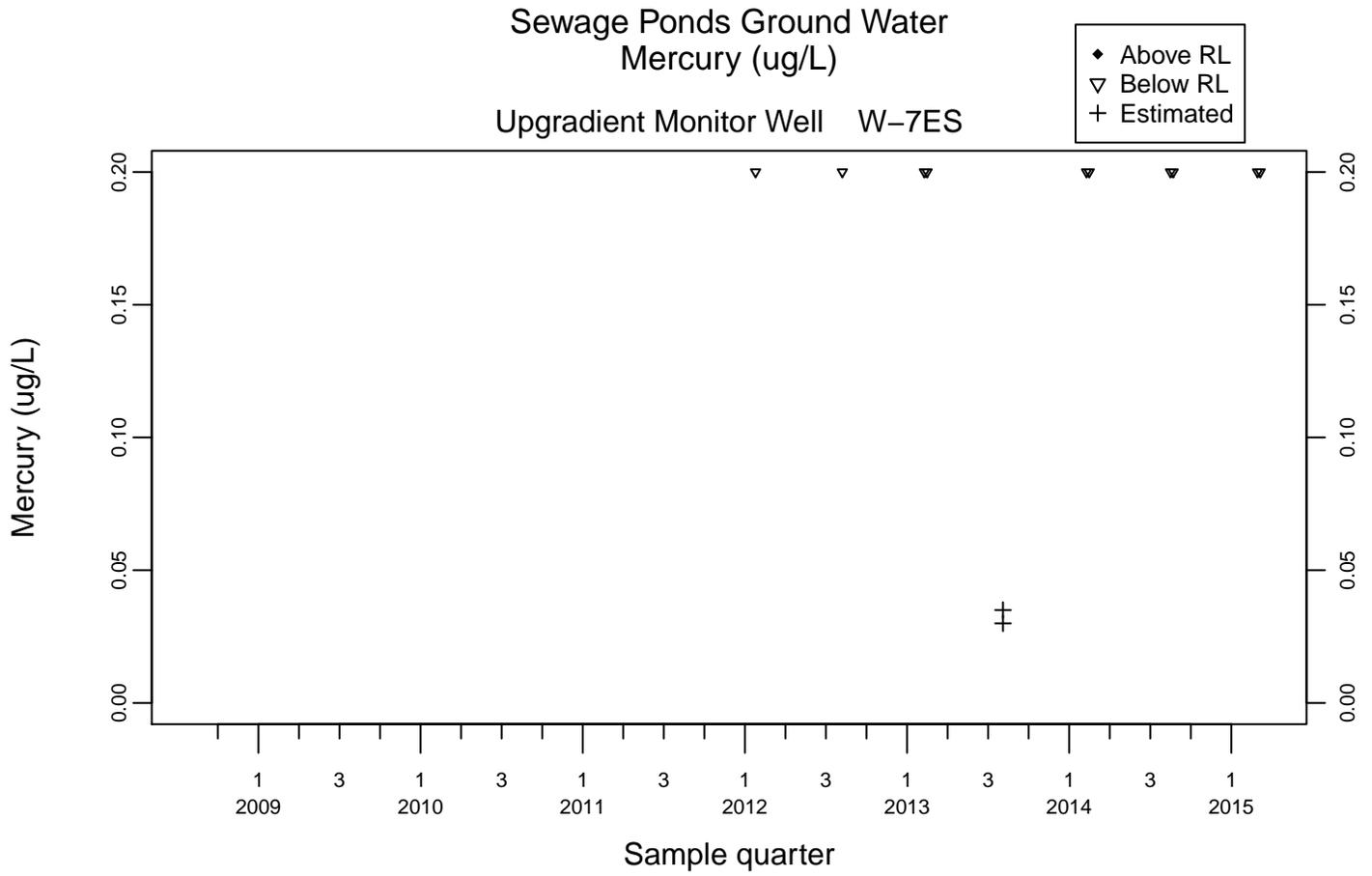
◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11



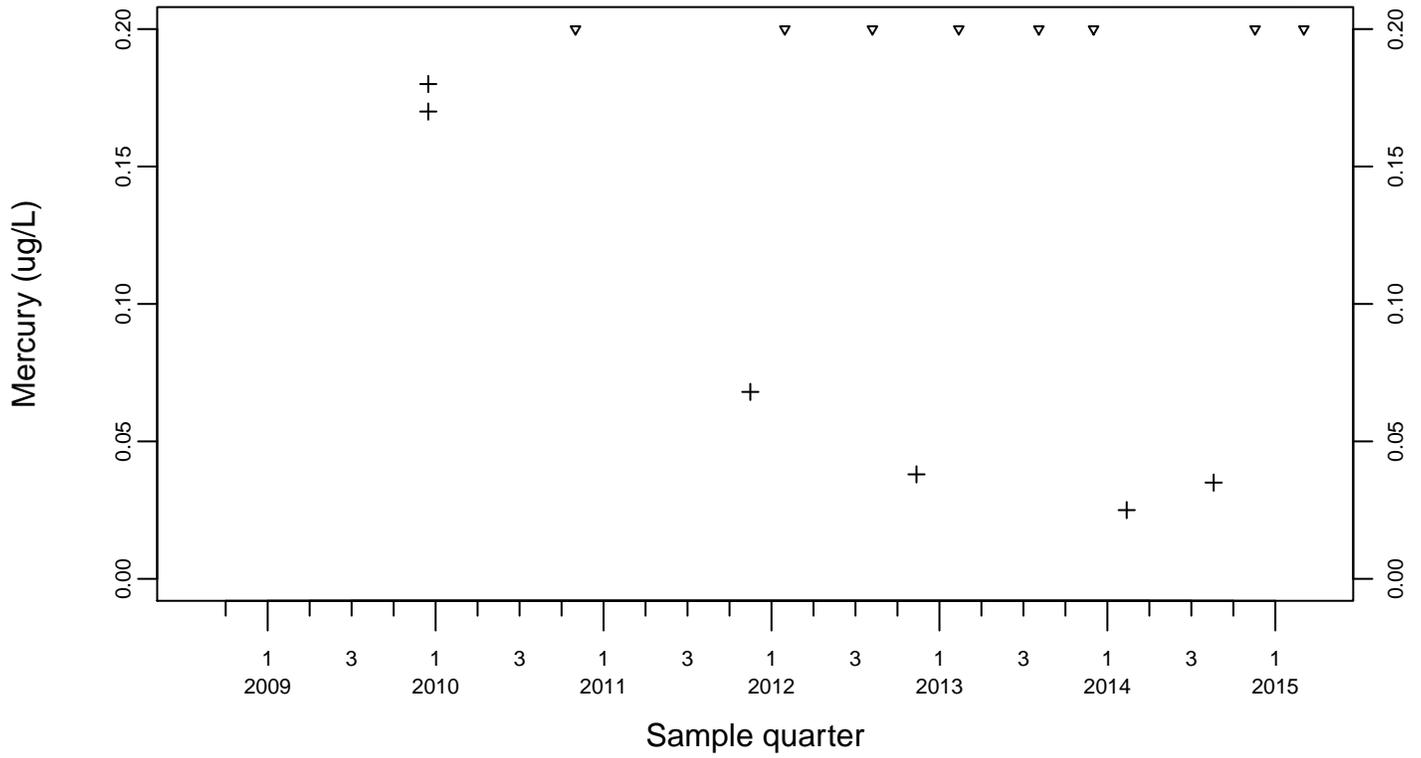




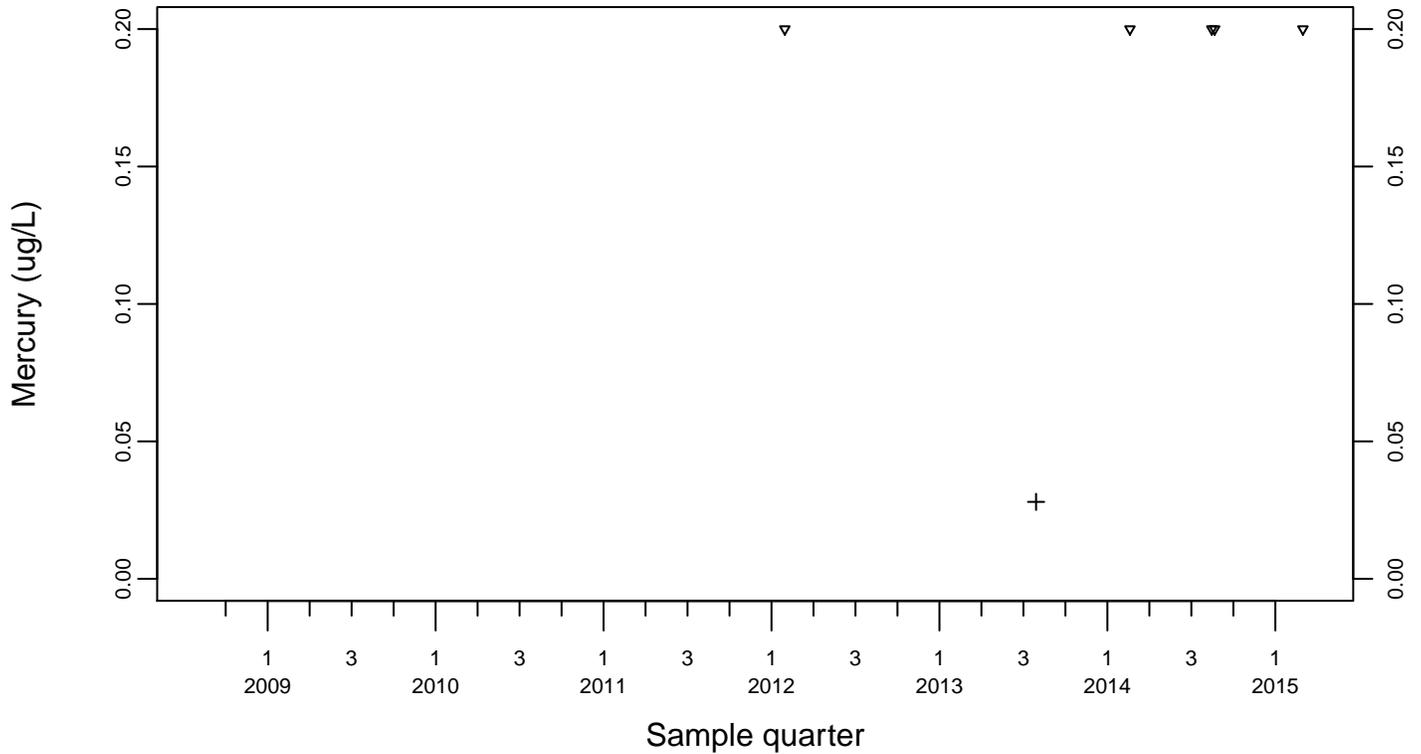
Sewage Ponds Ground Water Mercury (ug/L)

Crossgradient Monitor Well W-35A-04

- ◆ Above RL
- ▽ Below RL
- + Estimated



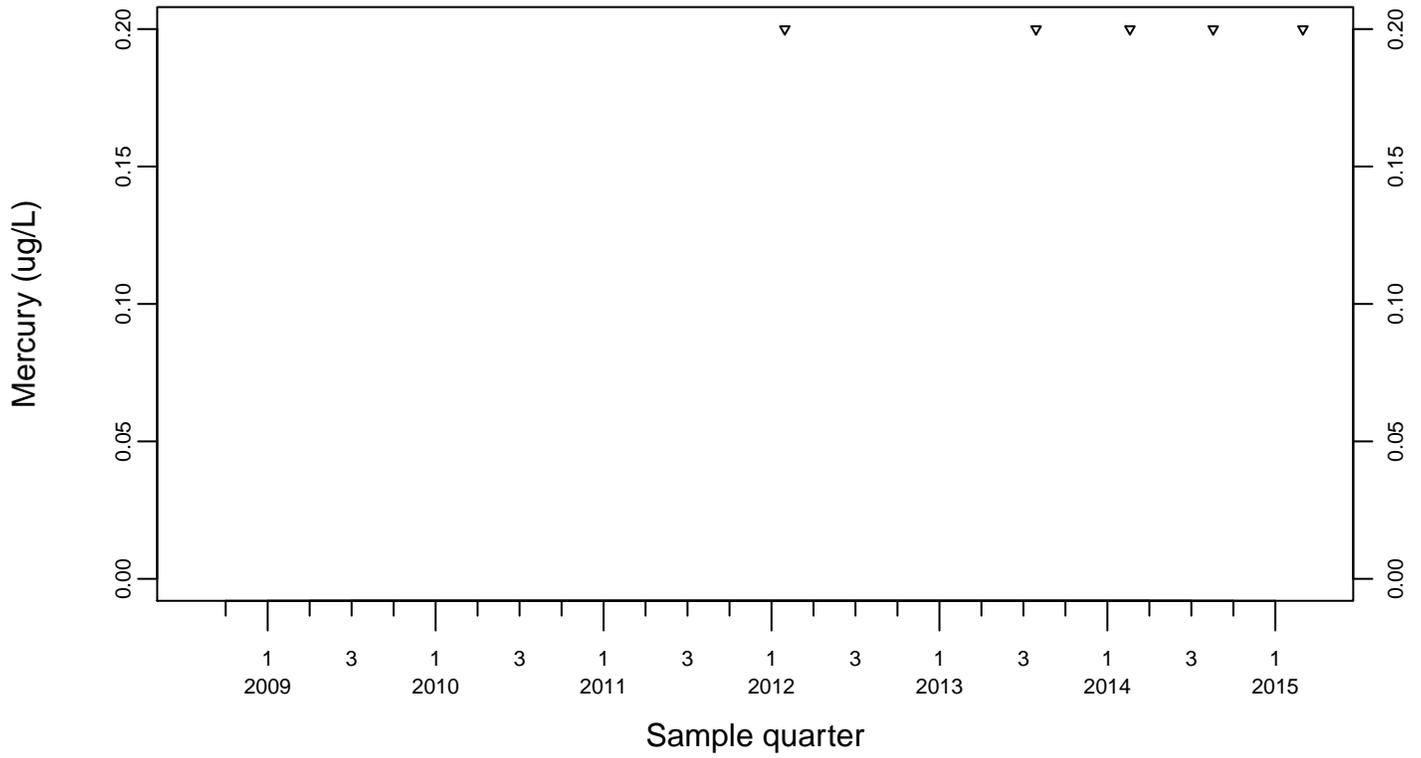
Downgradient Monitor Well W-25N-23



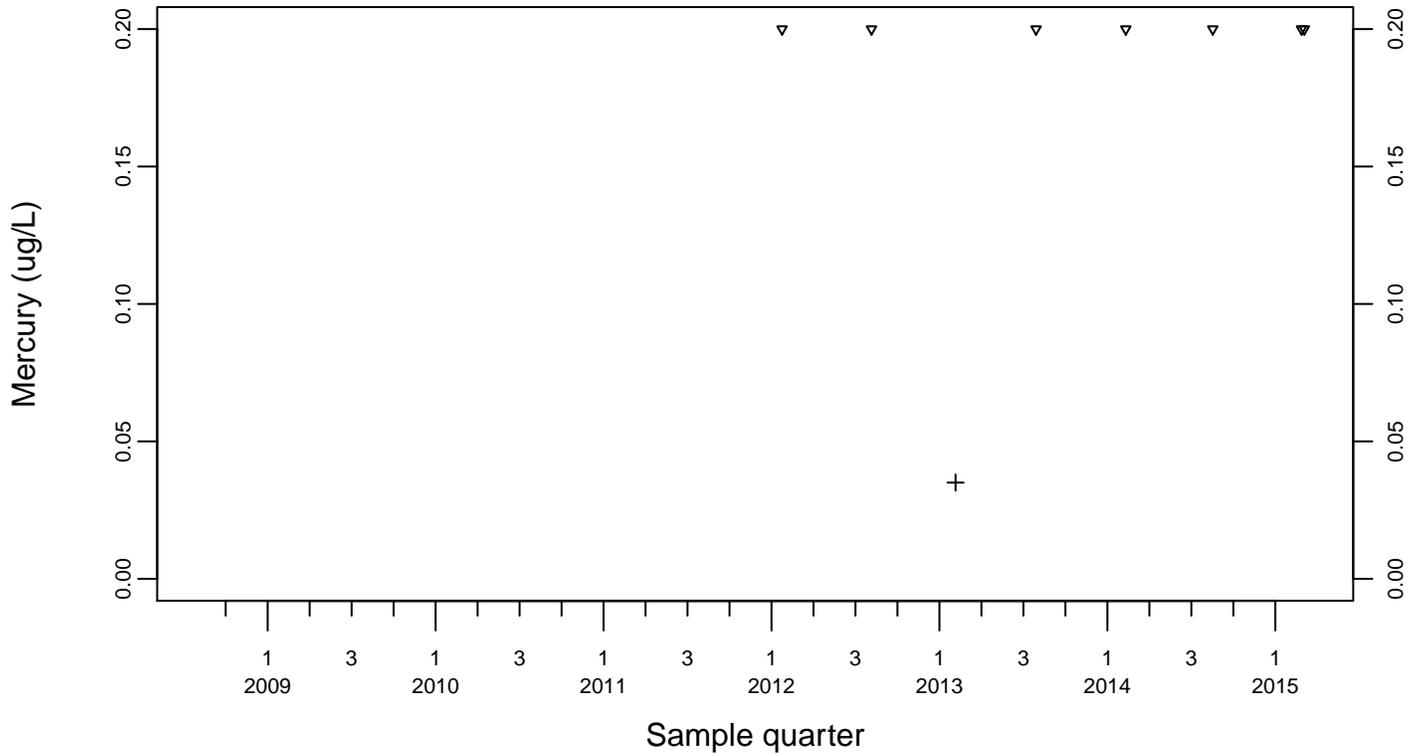
Sewage Ponds Ground Water Mercury (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



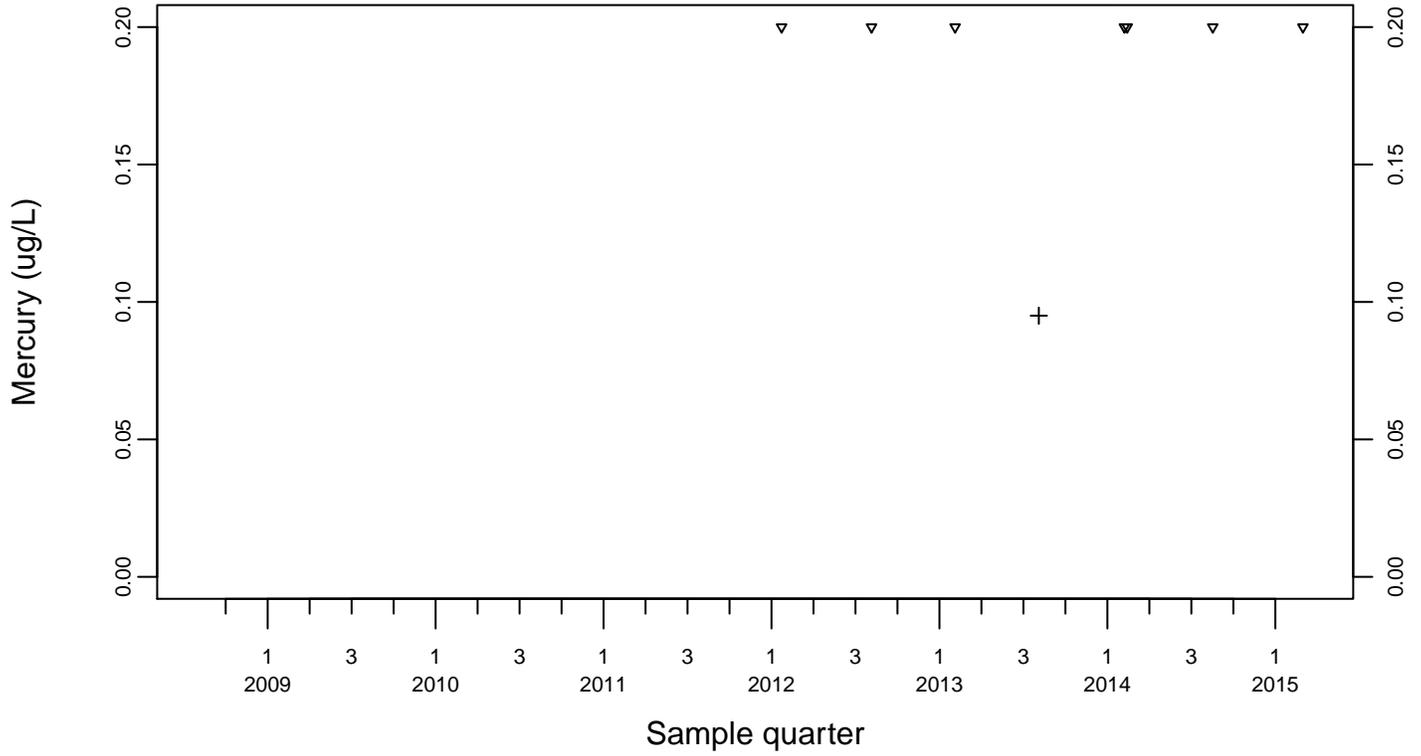
Downgradient Monitor Well W-26R-01



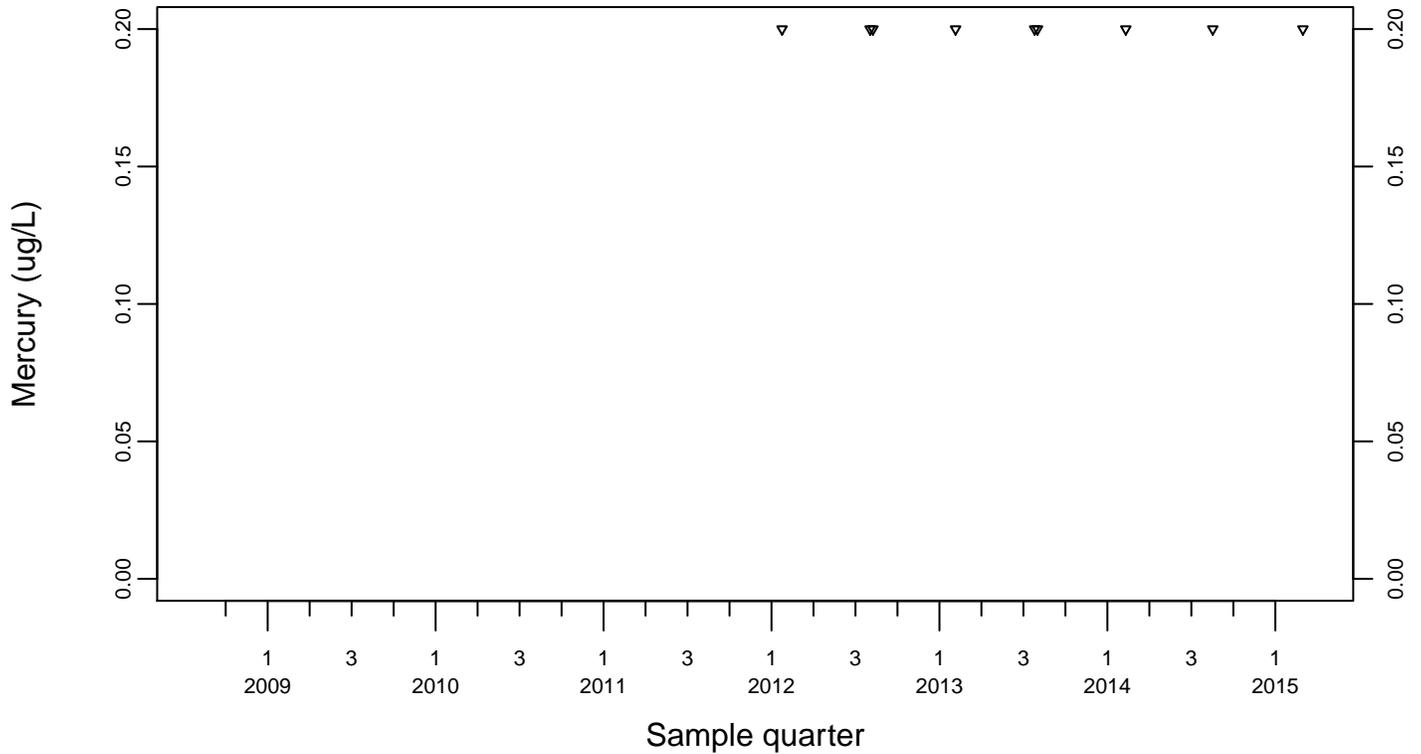
Sewage Ponds Ground Water Mercury (ug/L)

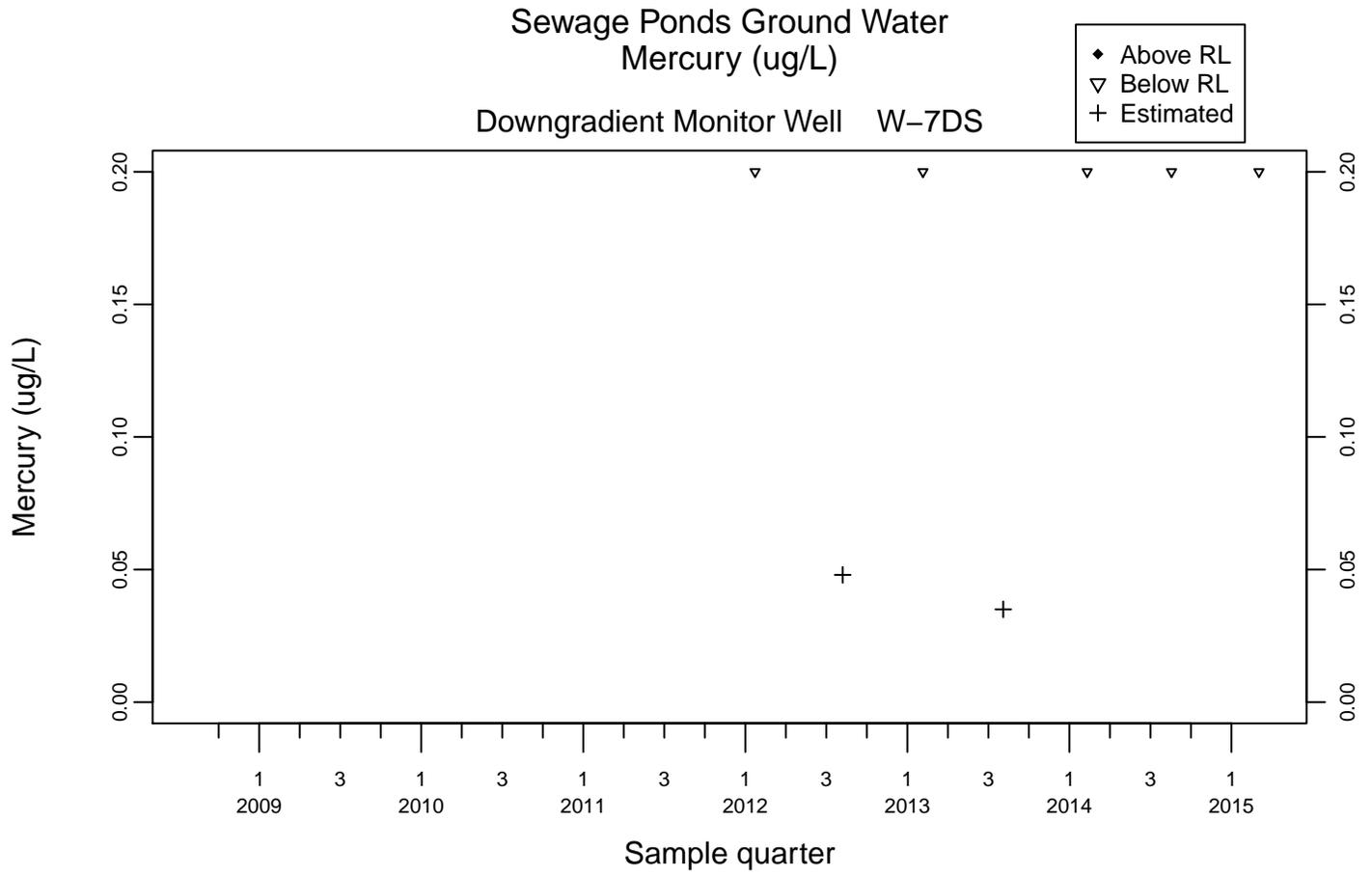
Downgradient Monitor Well W-26R-05

- ◆ Above RL
- ▽ Below RL
- + Estimated



Downgradient Monitor Well W-26R-11

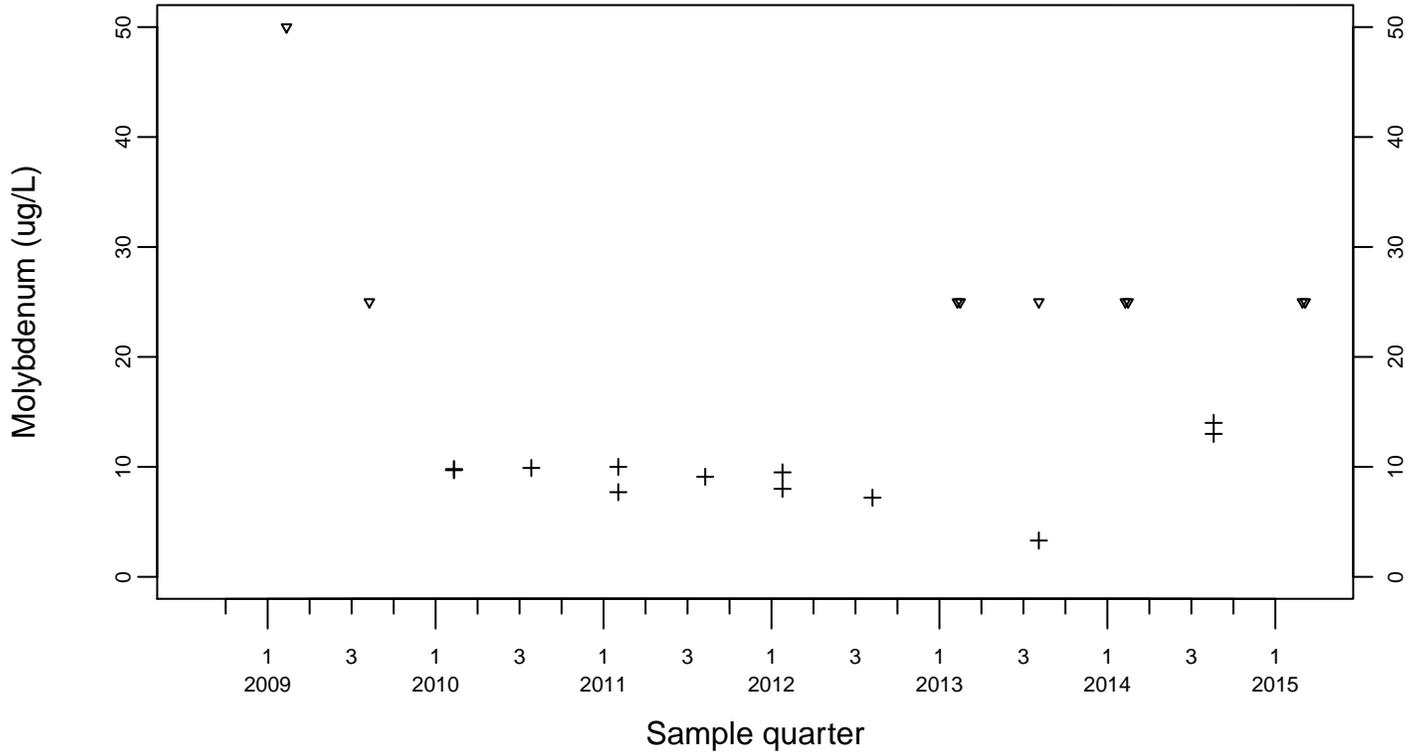




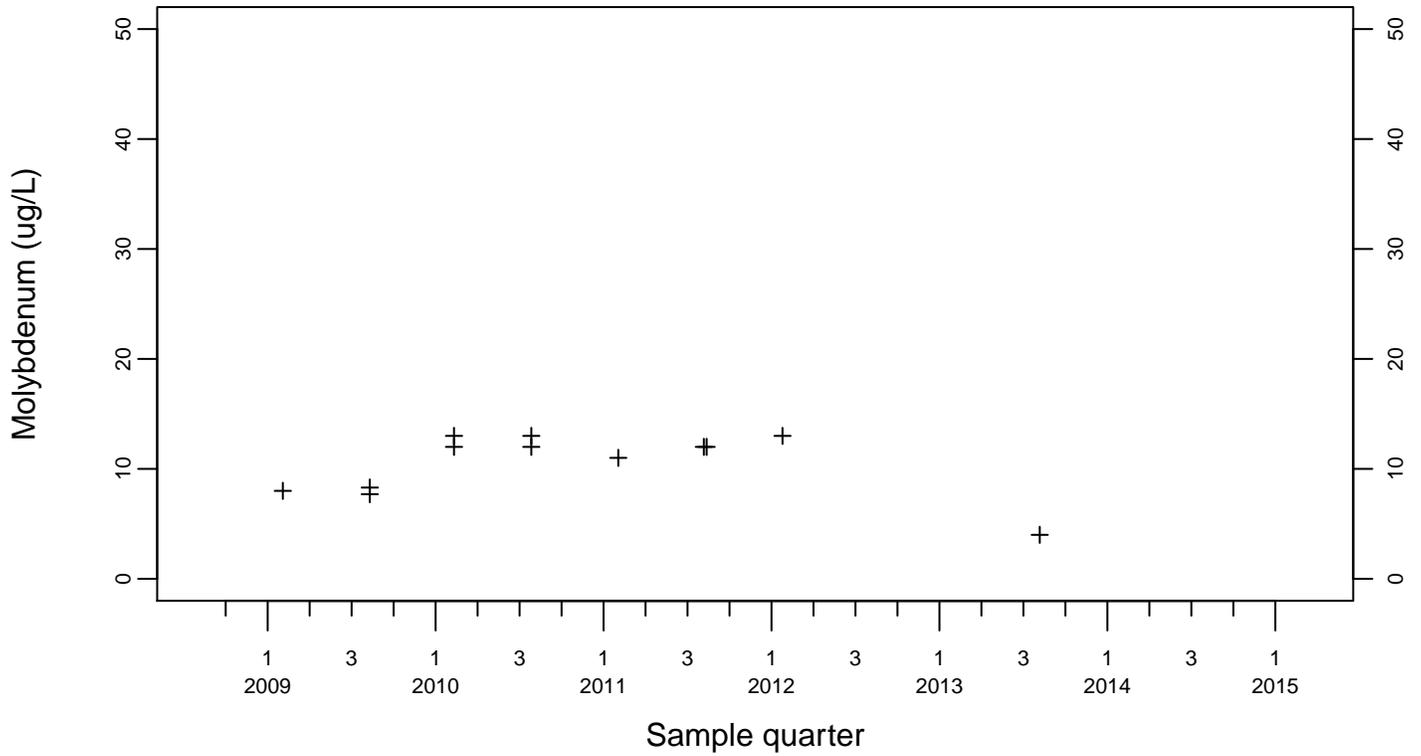
Sewage Ponds Ground Water Molybdenum (ug/L)

Upgradient Monitor Well W-7ES

- ◆ Above RL
- ▽ Below RL
- + Estimated



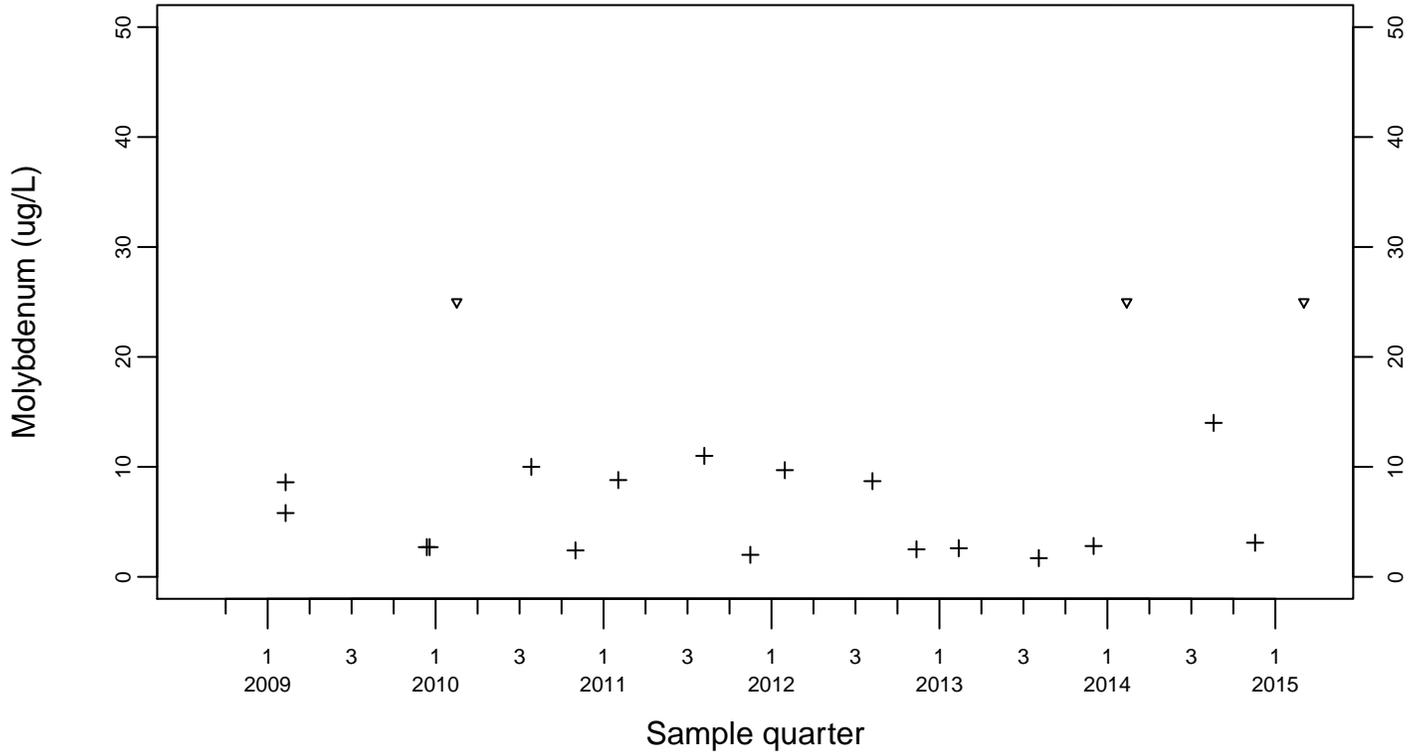
Upgradient Monitor Well W-7PS



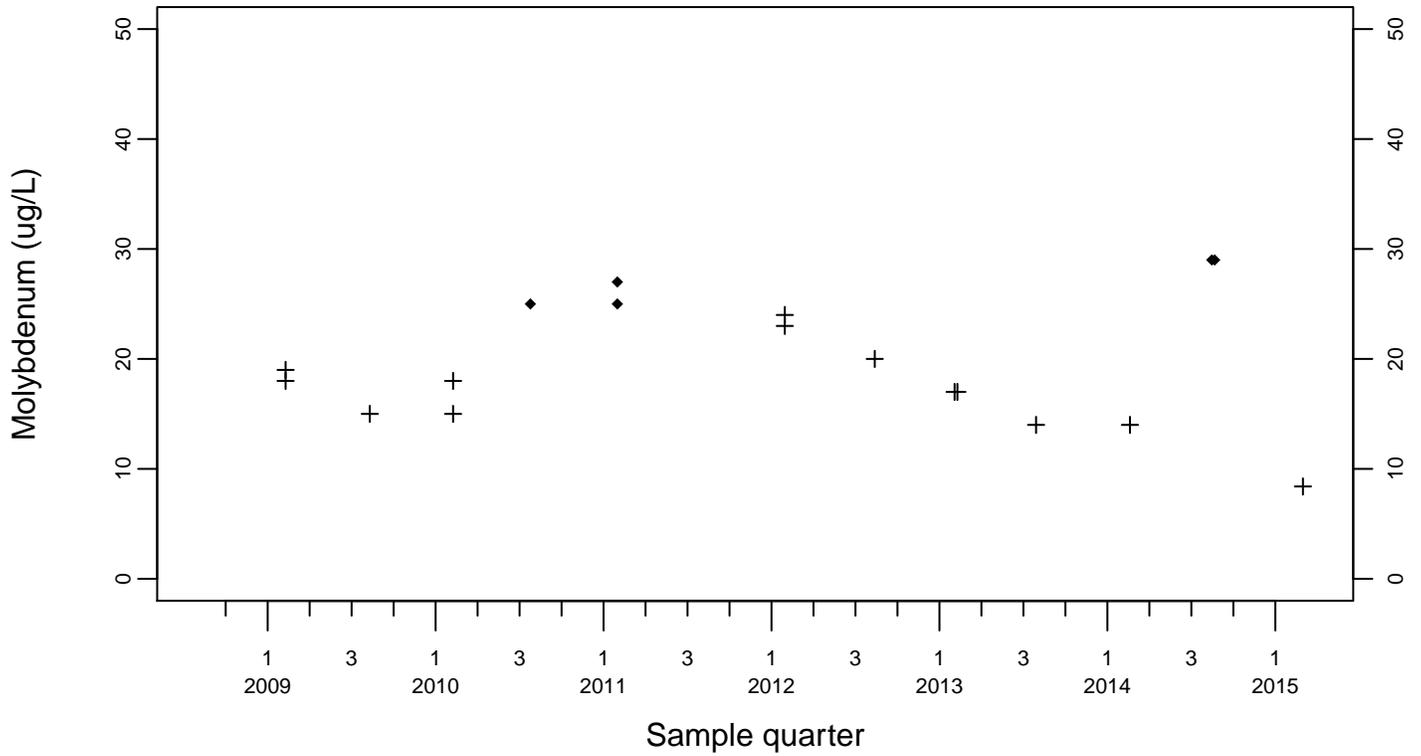
Sewage Ponds Ground Water
 Molybdenum (ug/L)

Crossgradient Monitor Well W-35A-04

- ◆ Above RL
- ▽ Below RL
- + Estimated



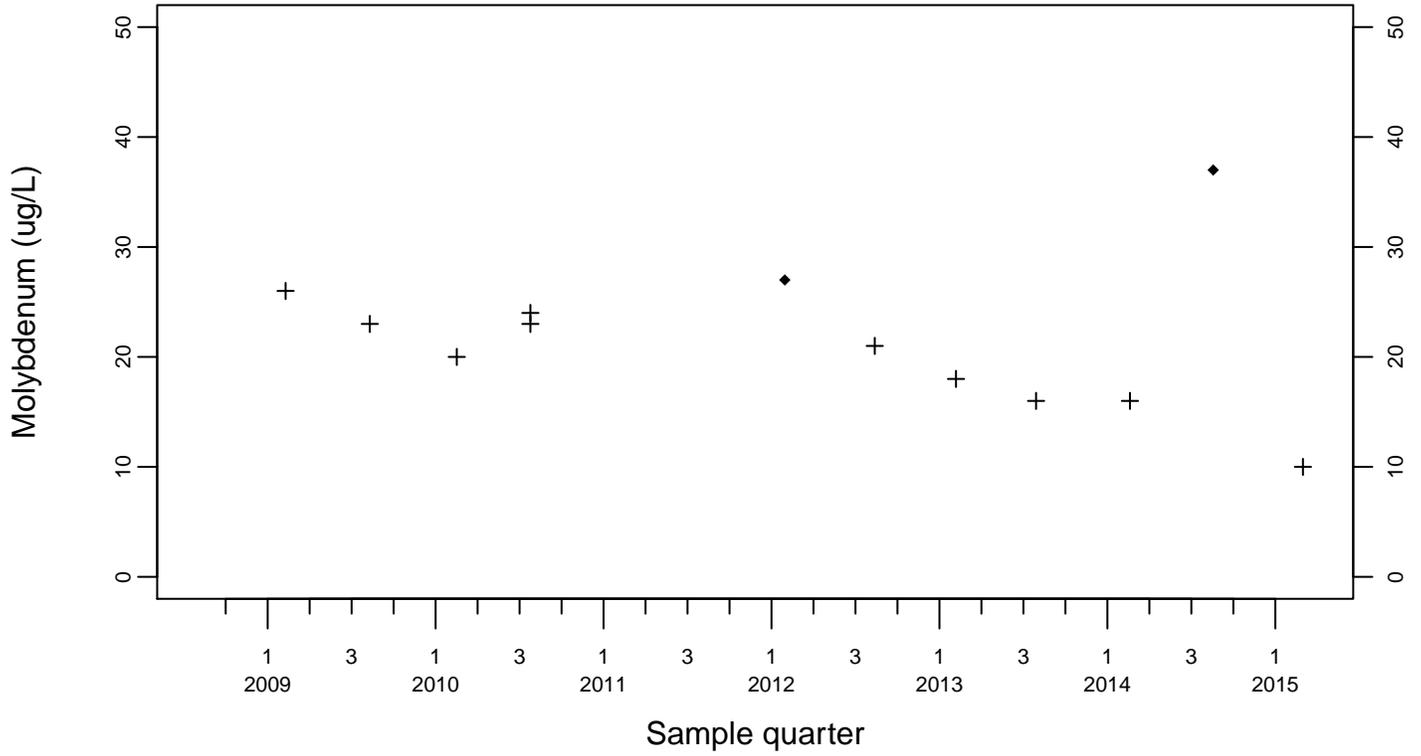
Downgradient Monitor Well W-25N-23



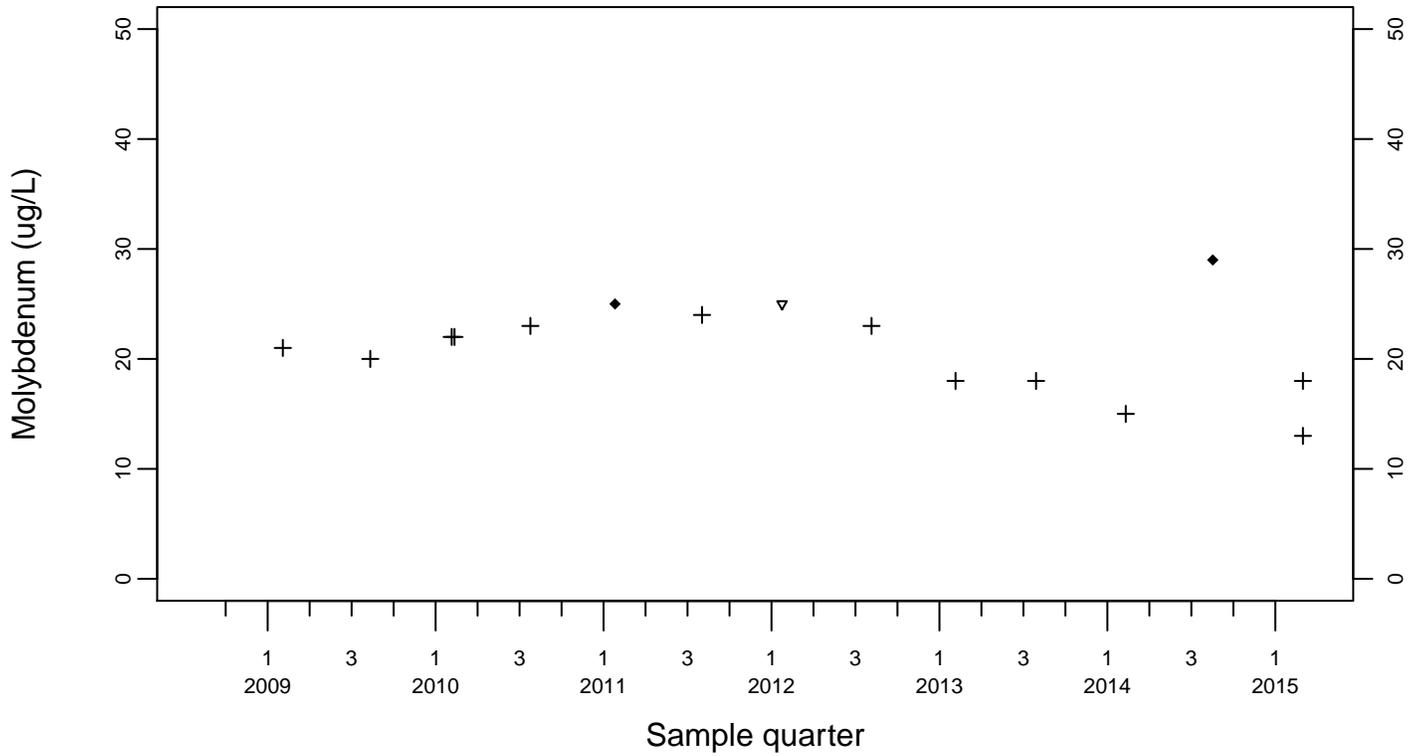
Sewage Ponds Ground Water Molybdenum (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
+ Estimated



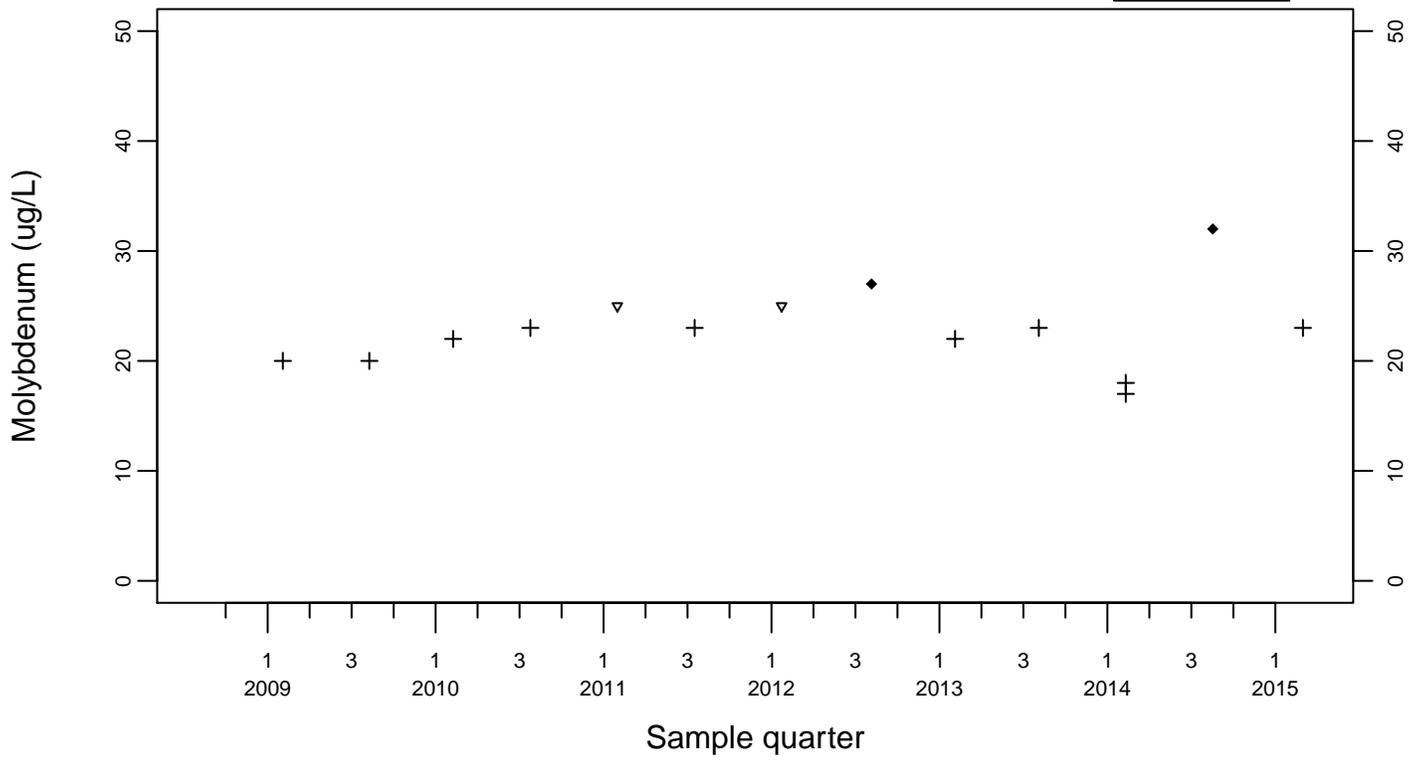
Downgradient Monitor Well W-26R-01



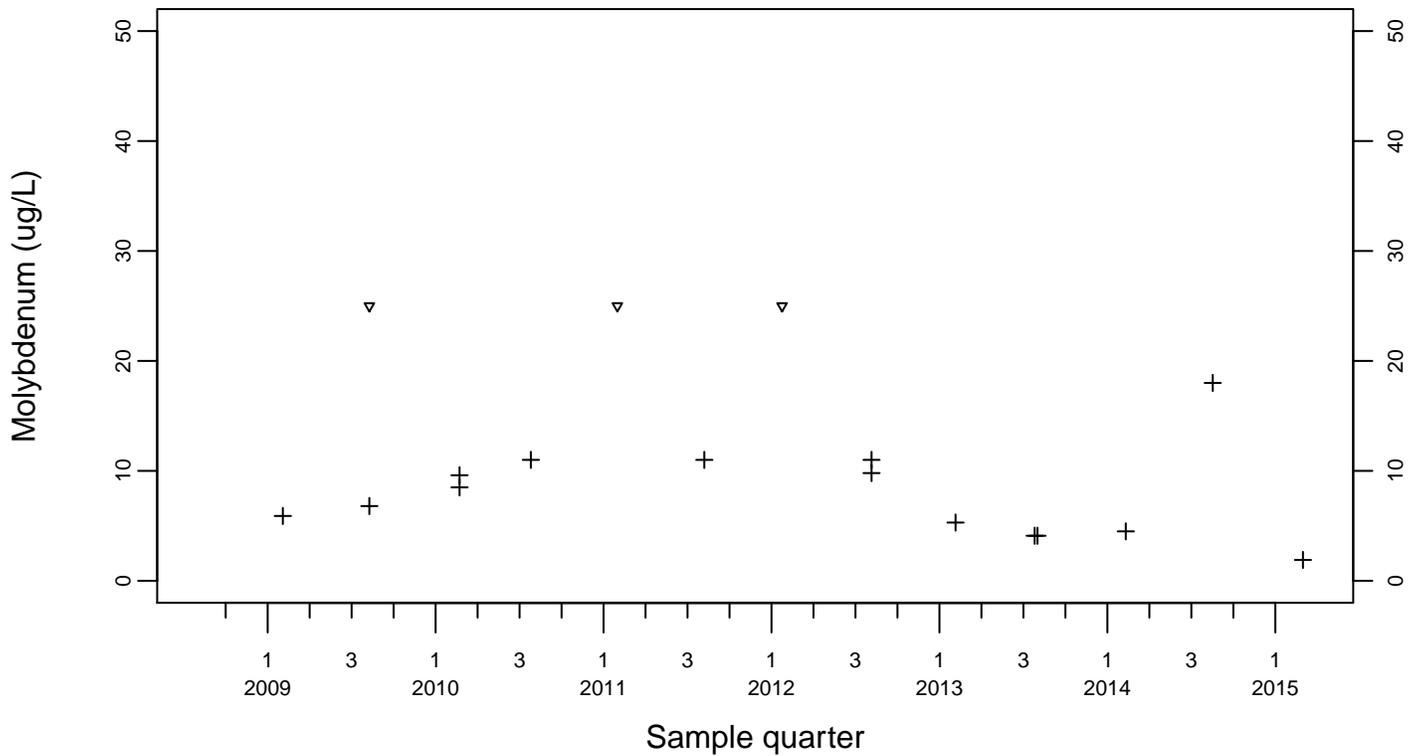
Sewage Ponds Ground Water
 Molybdenum (ug/L)

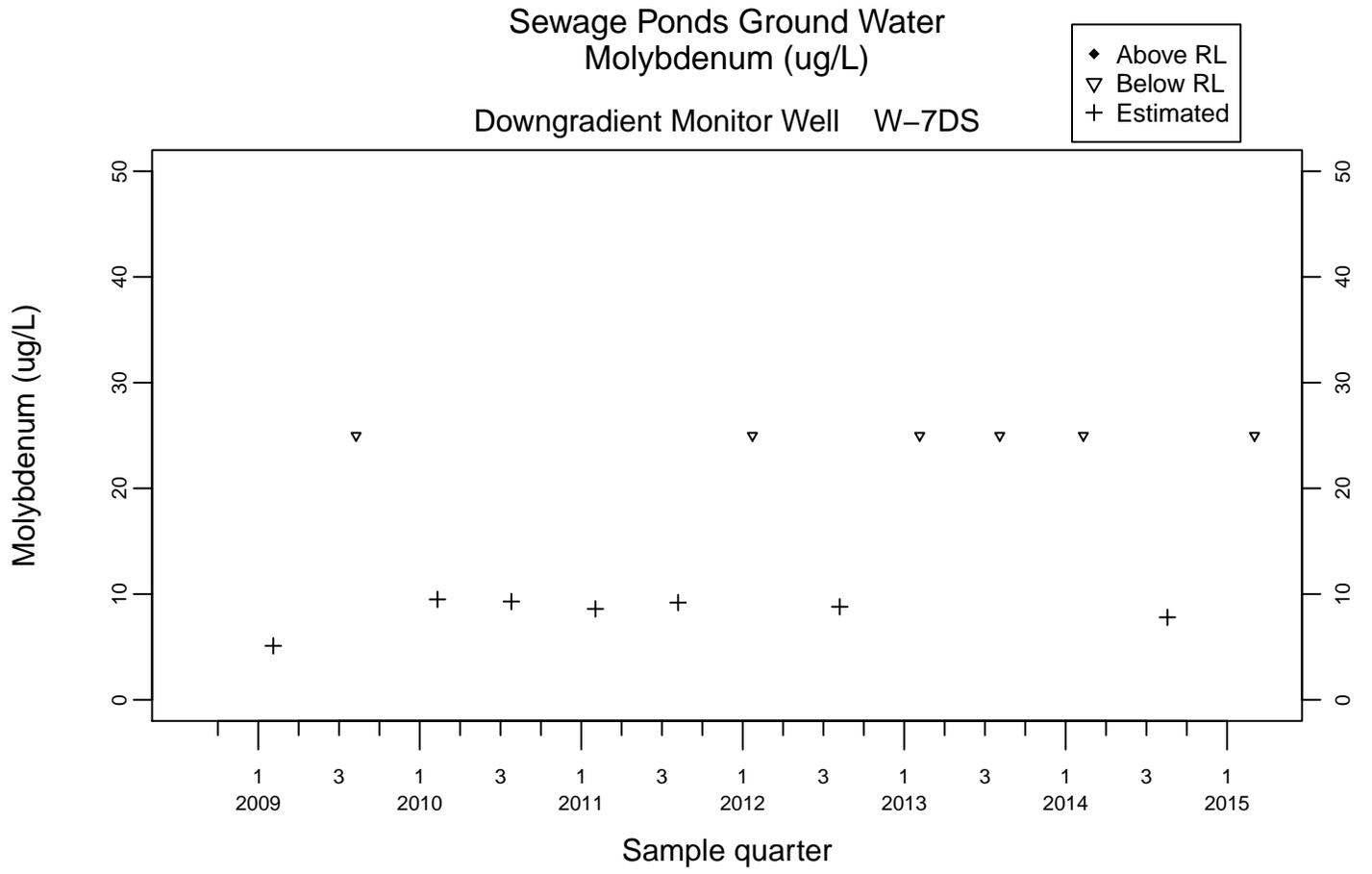
Downgradient Monitor Well W-26R-05

- ◆ Above RL
- ▽ Below RL
- + Estimated



Downgradient Monitor Well W-26R-11

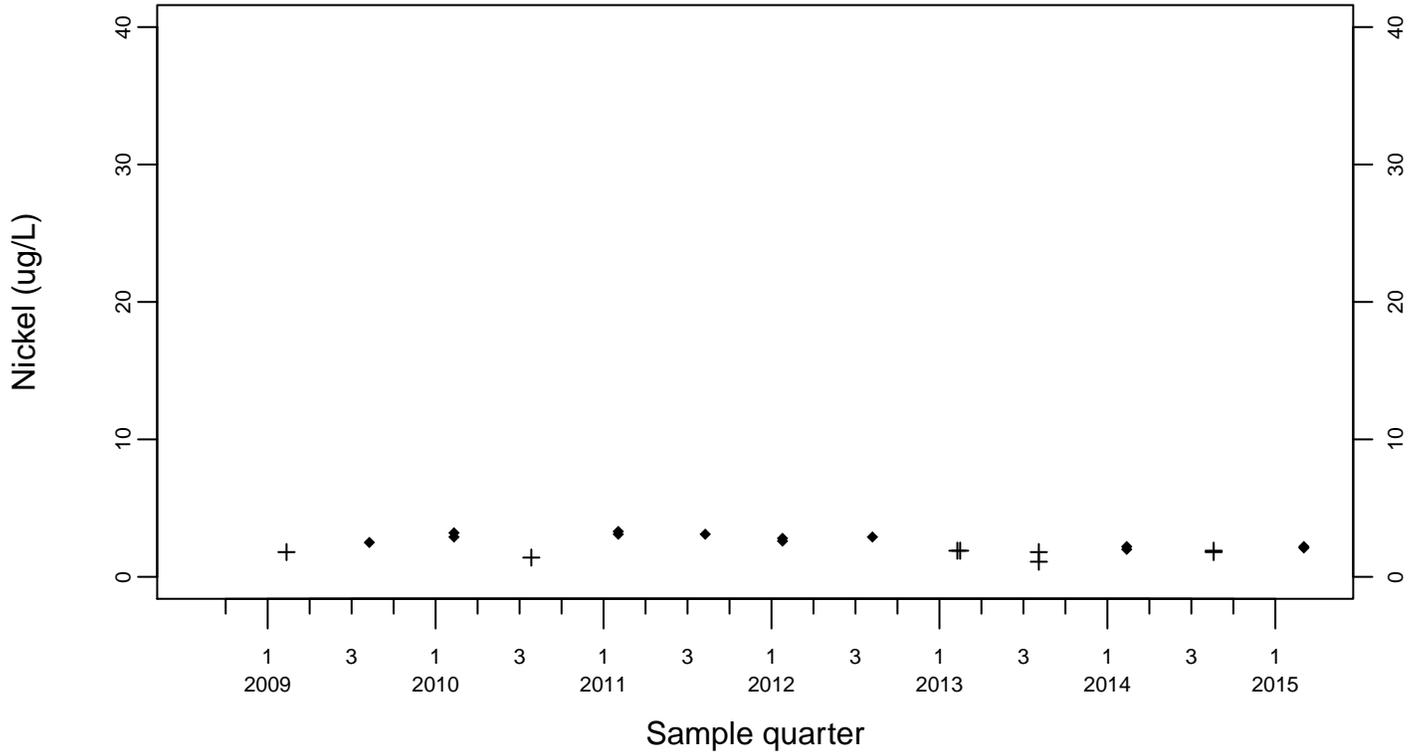




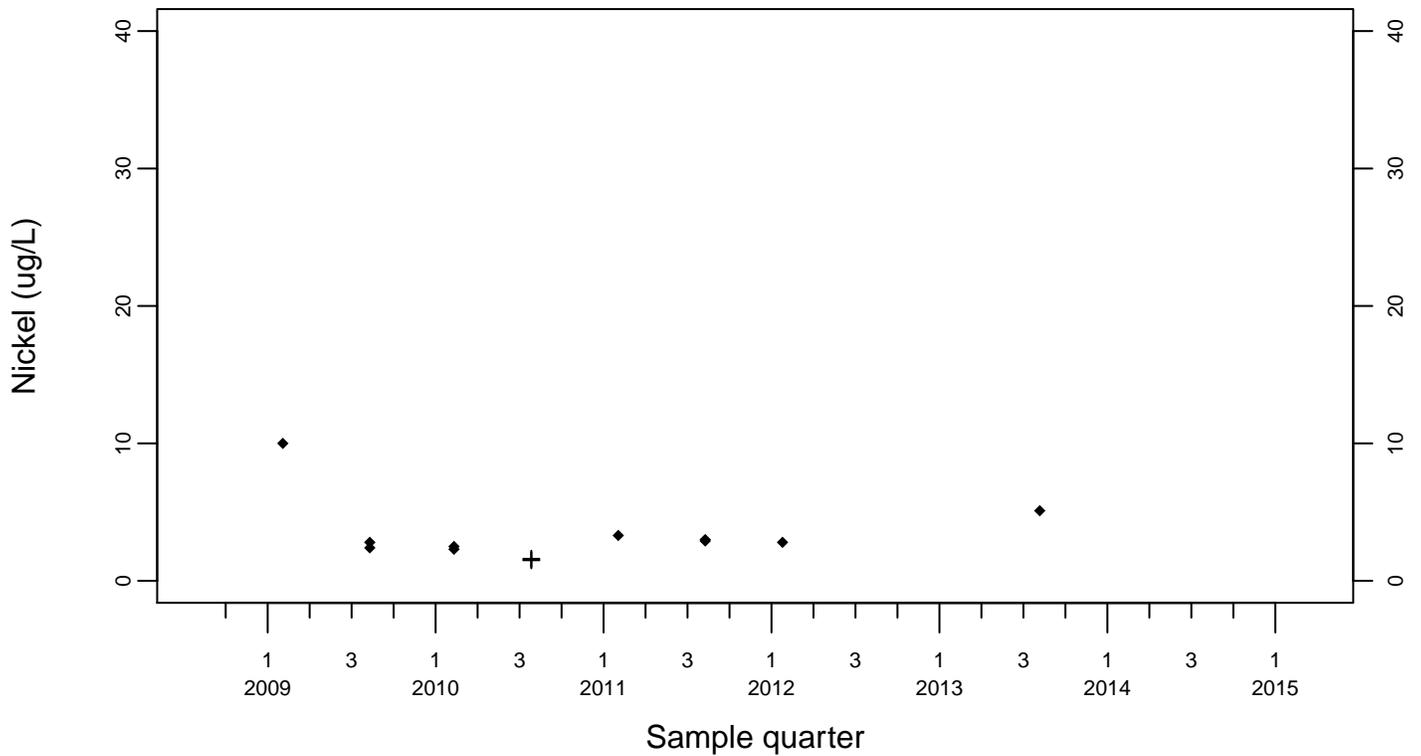
Sewage Ponds Ground Water Nickel (ug/L)

Upgradient Monitor Well W-7ES

◆ Above RL
+ Estimated



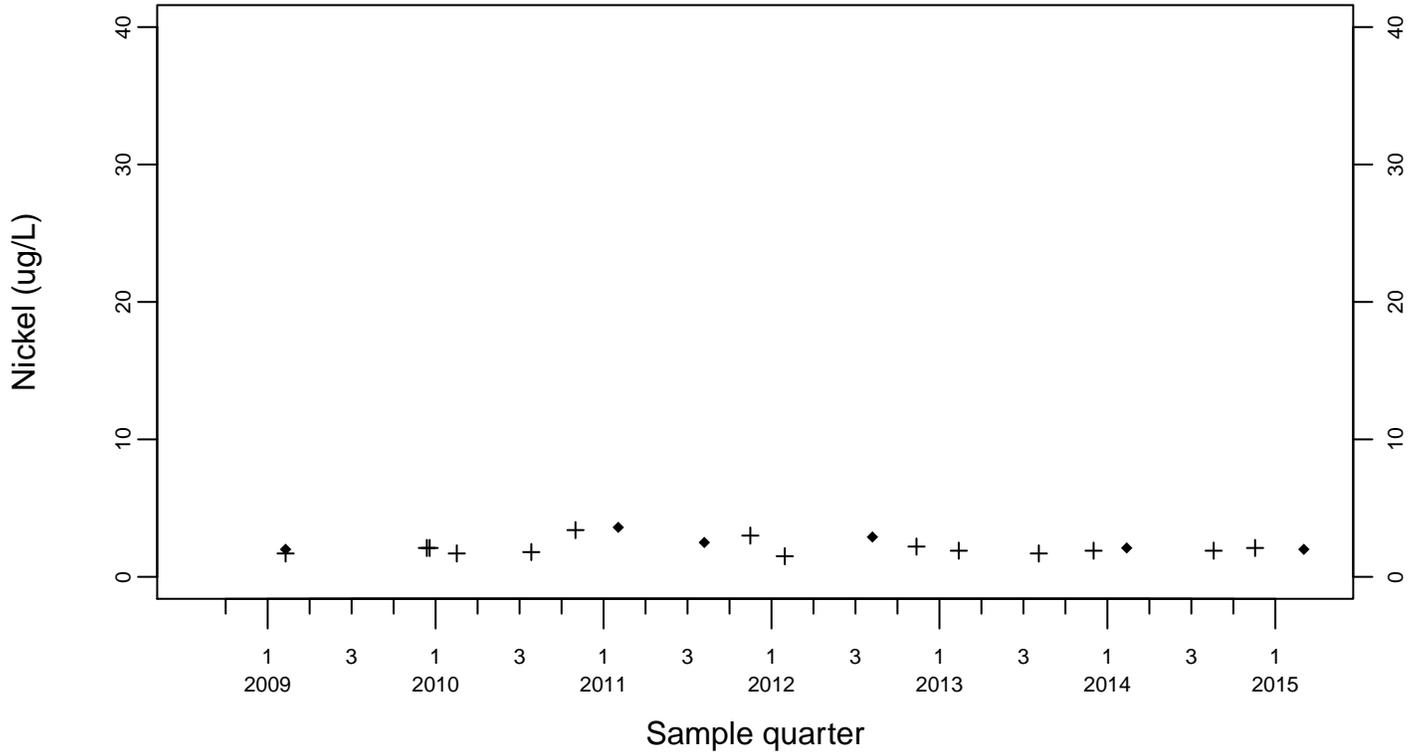
Upgradient Monitor Well W-7PS



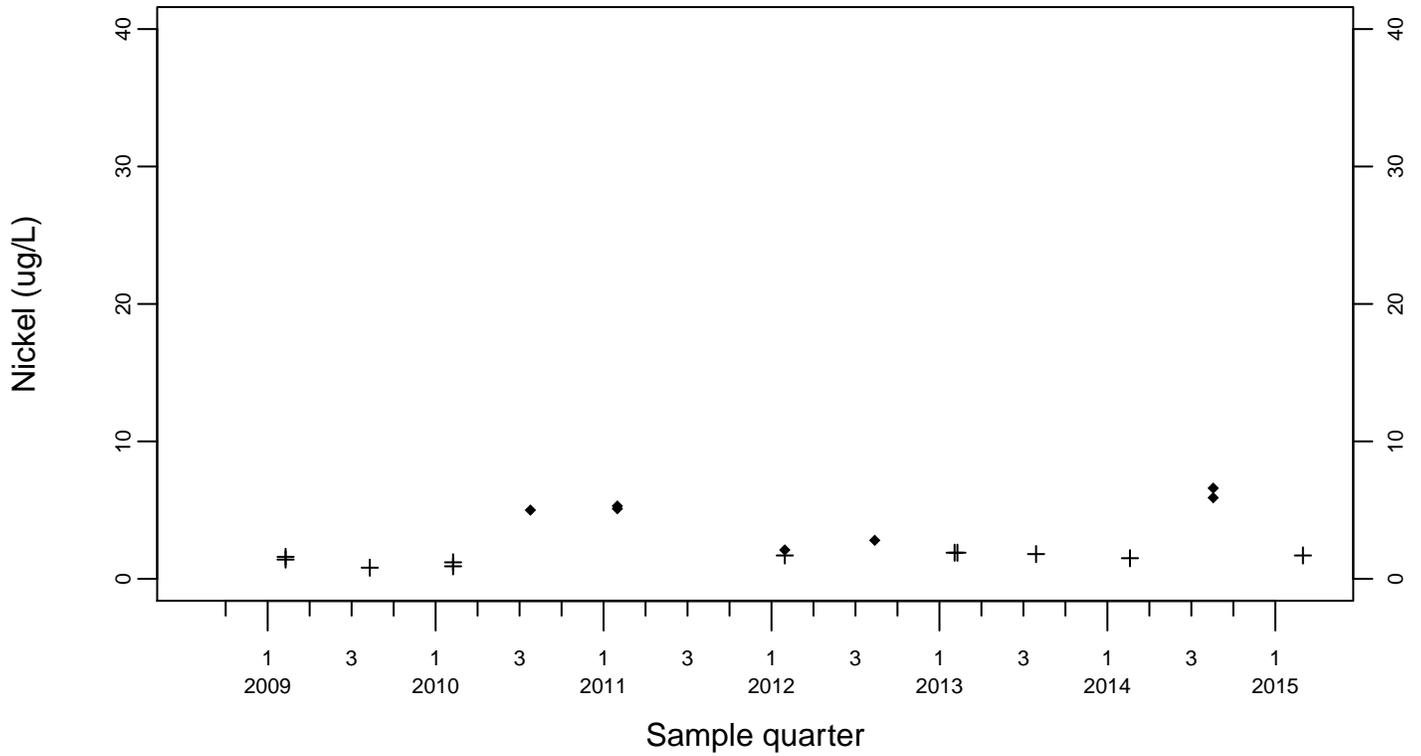
Sewage Ponds Ground Water Nickel (ug/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
+ Estimated



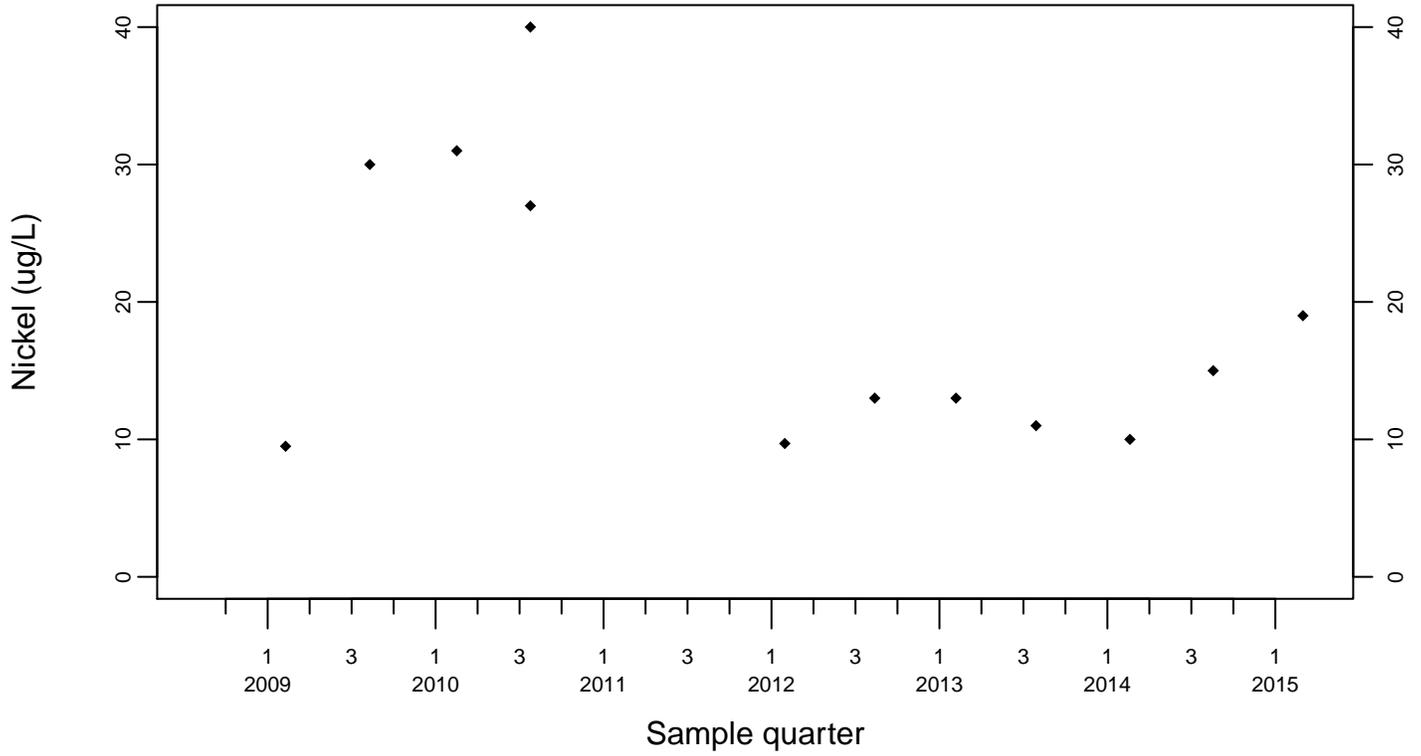
Downgradient Monitor Well W-25N-23



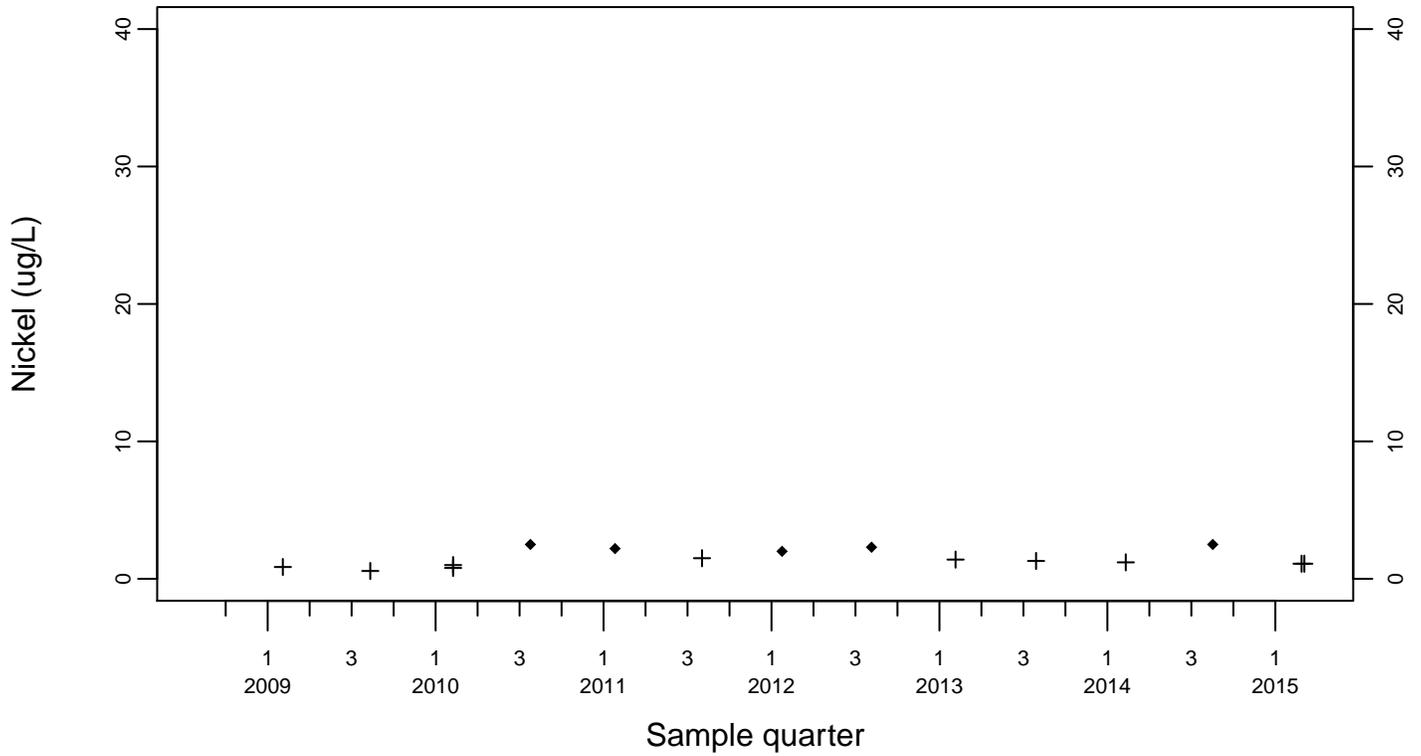
Sewage Ponds Ground Water Nickel (ug/L)

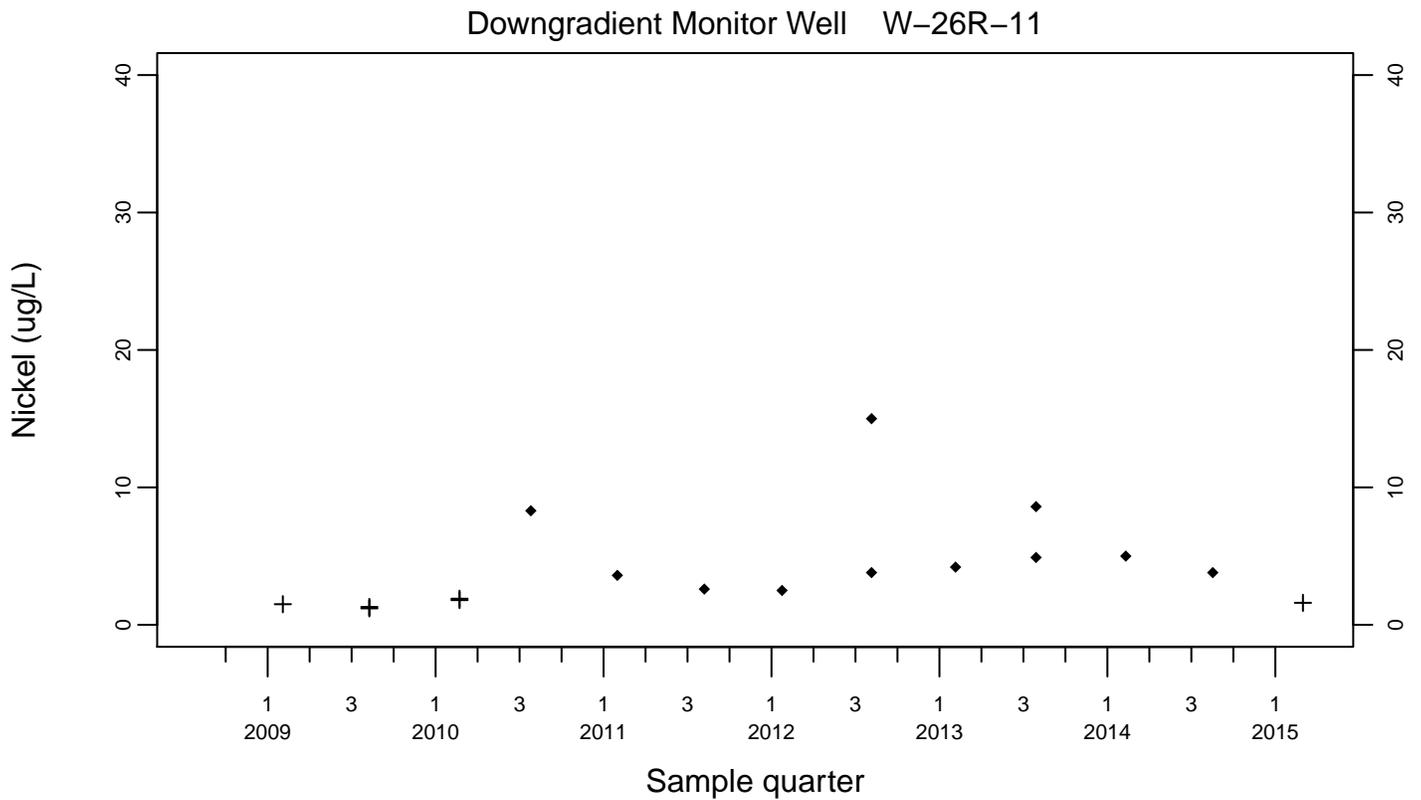
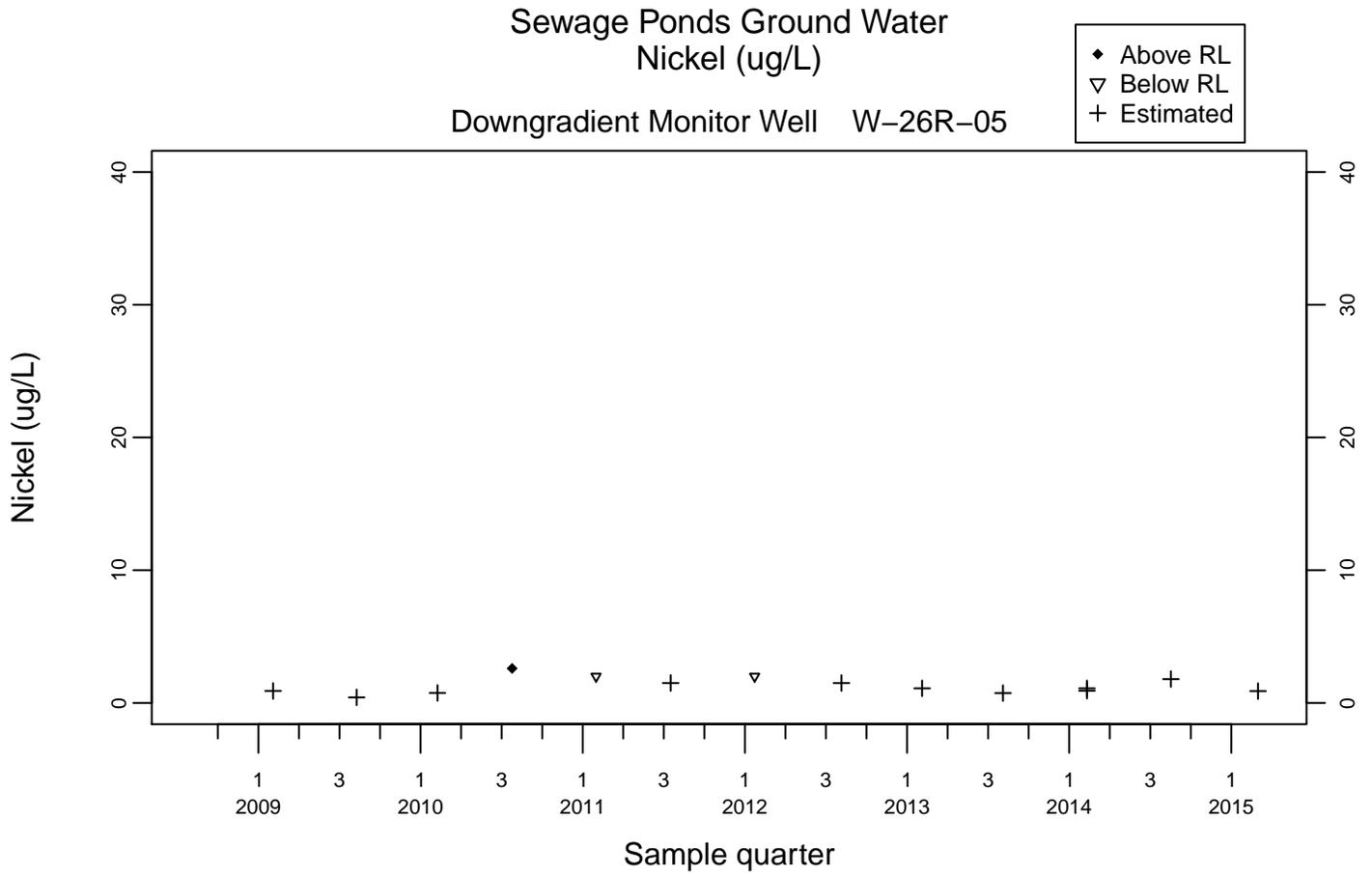
Downgradient Monitor Well W-25N-22

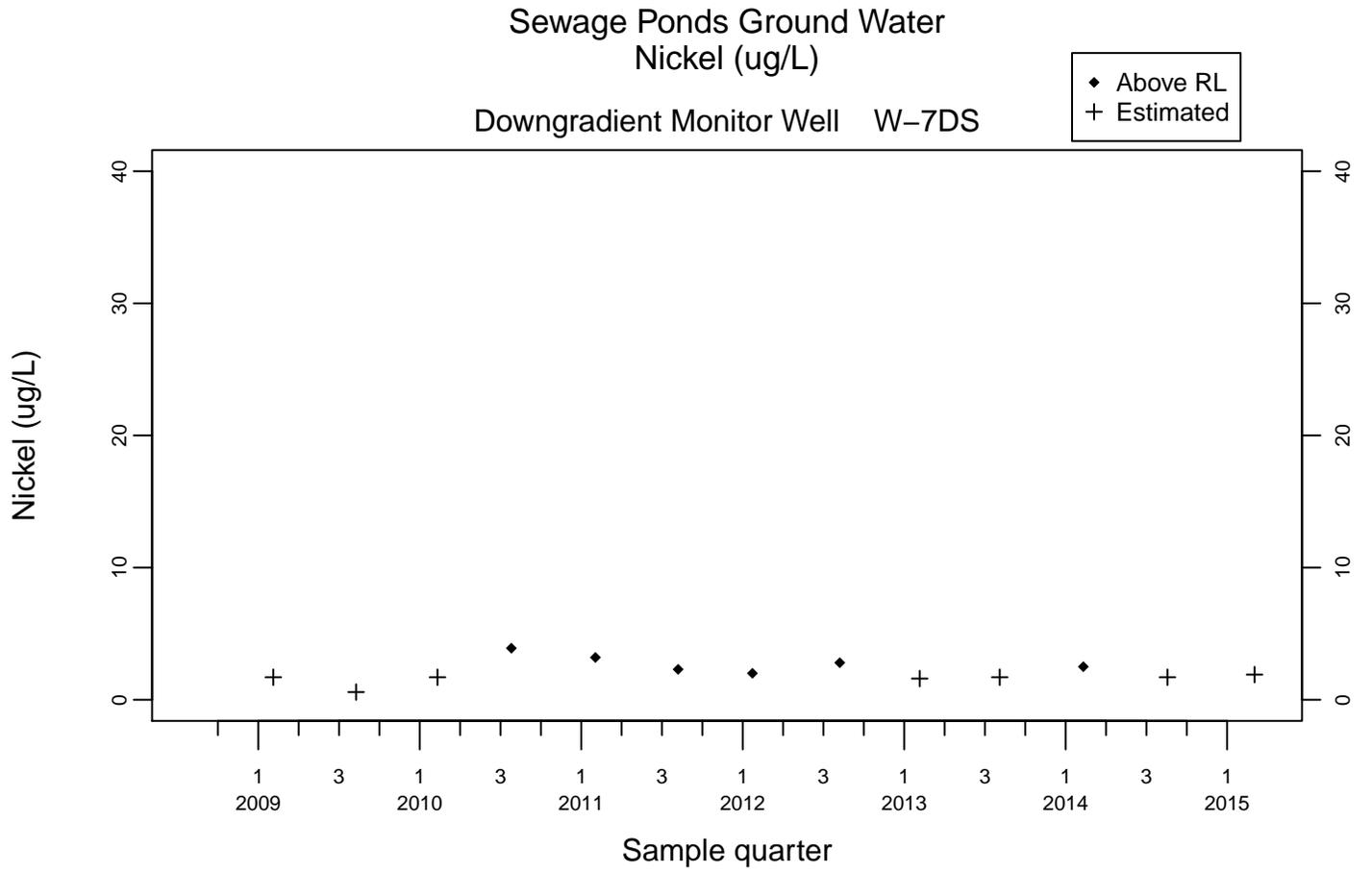
◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-01



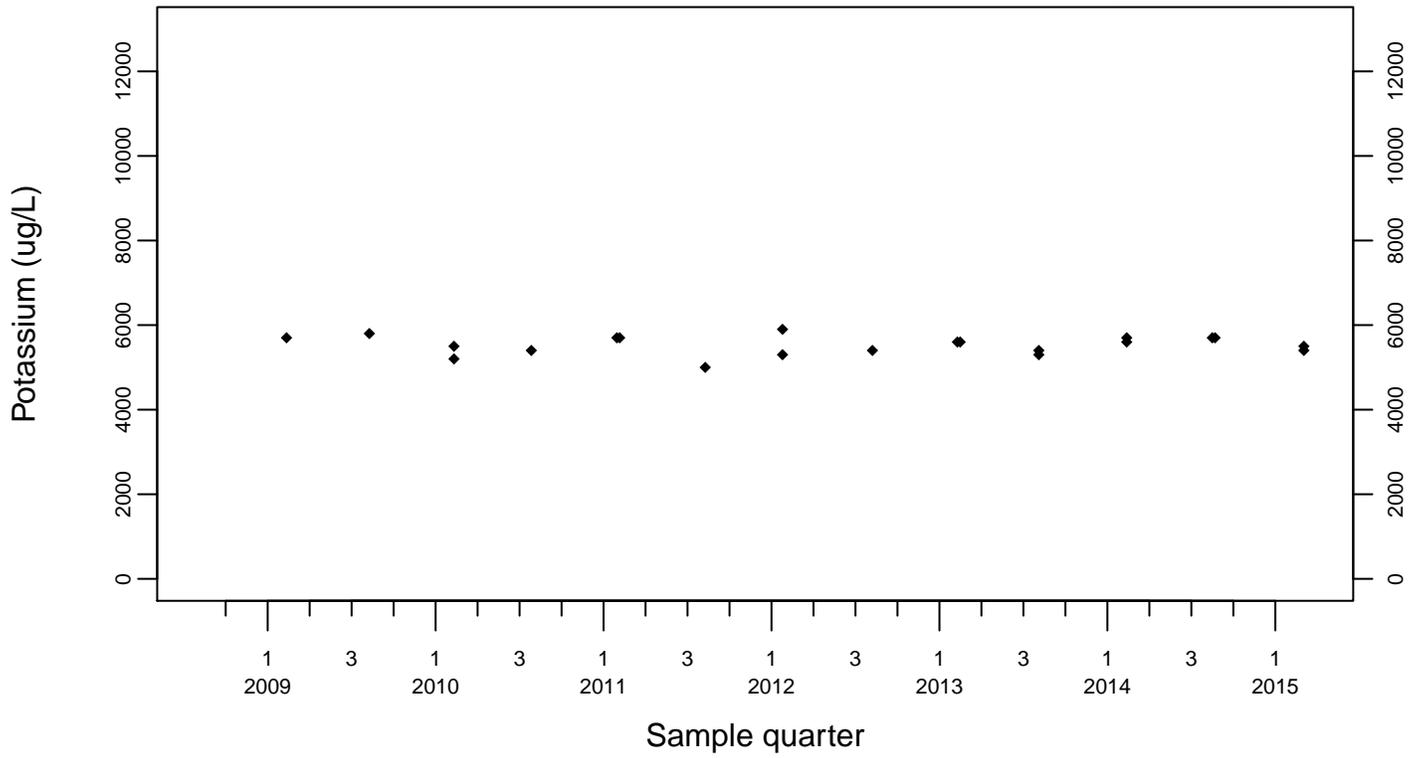




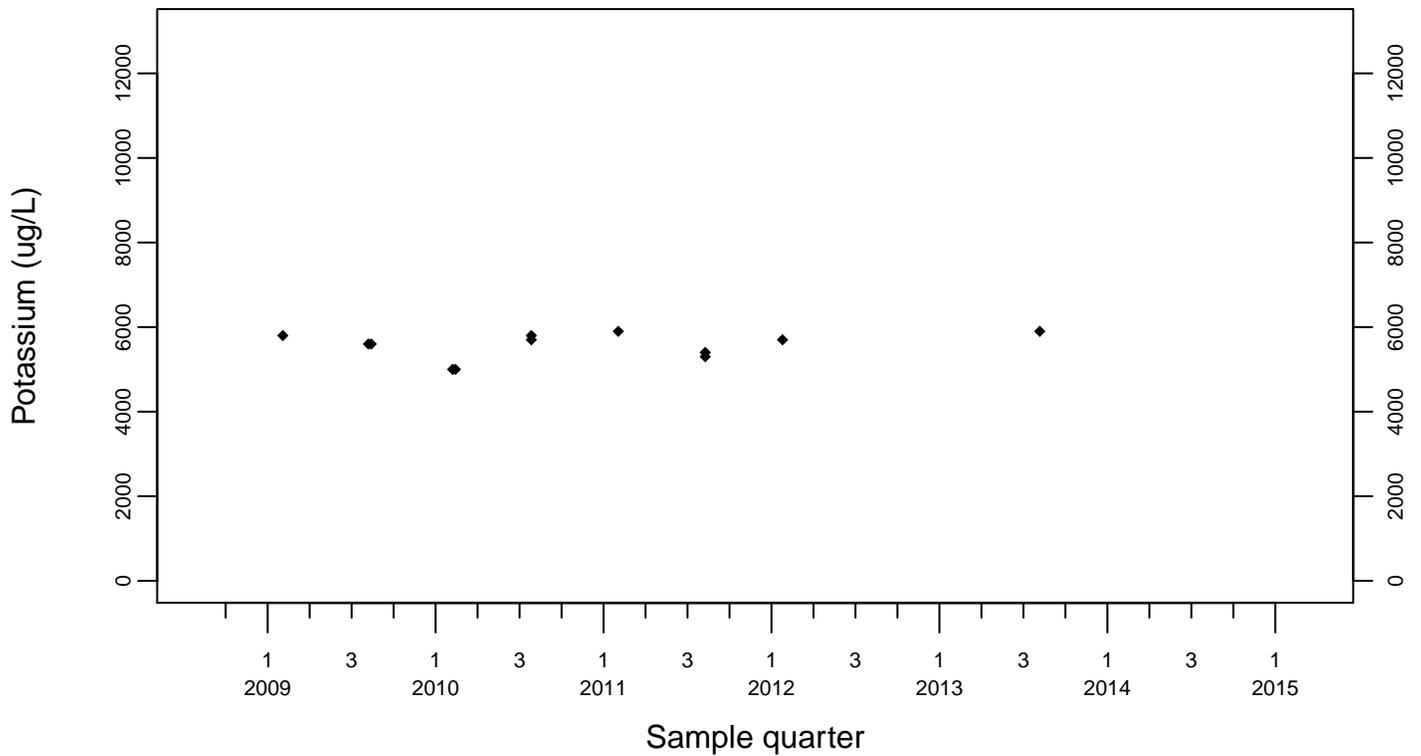
Sewage Ponds Ground Water Potassium (ug/L)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL

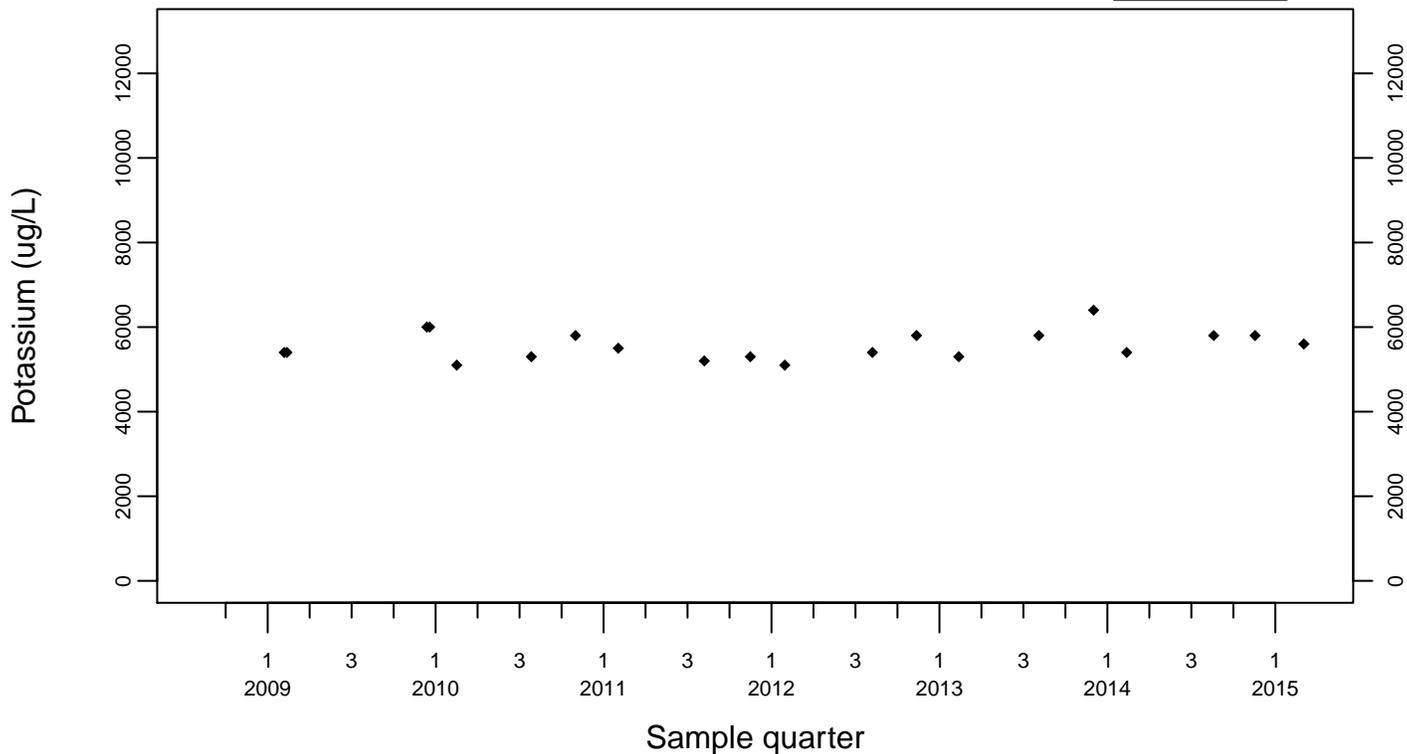


Upgradient Monitor Well W-7PS

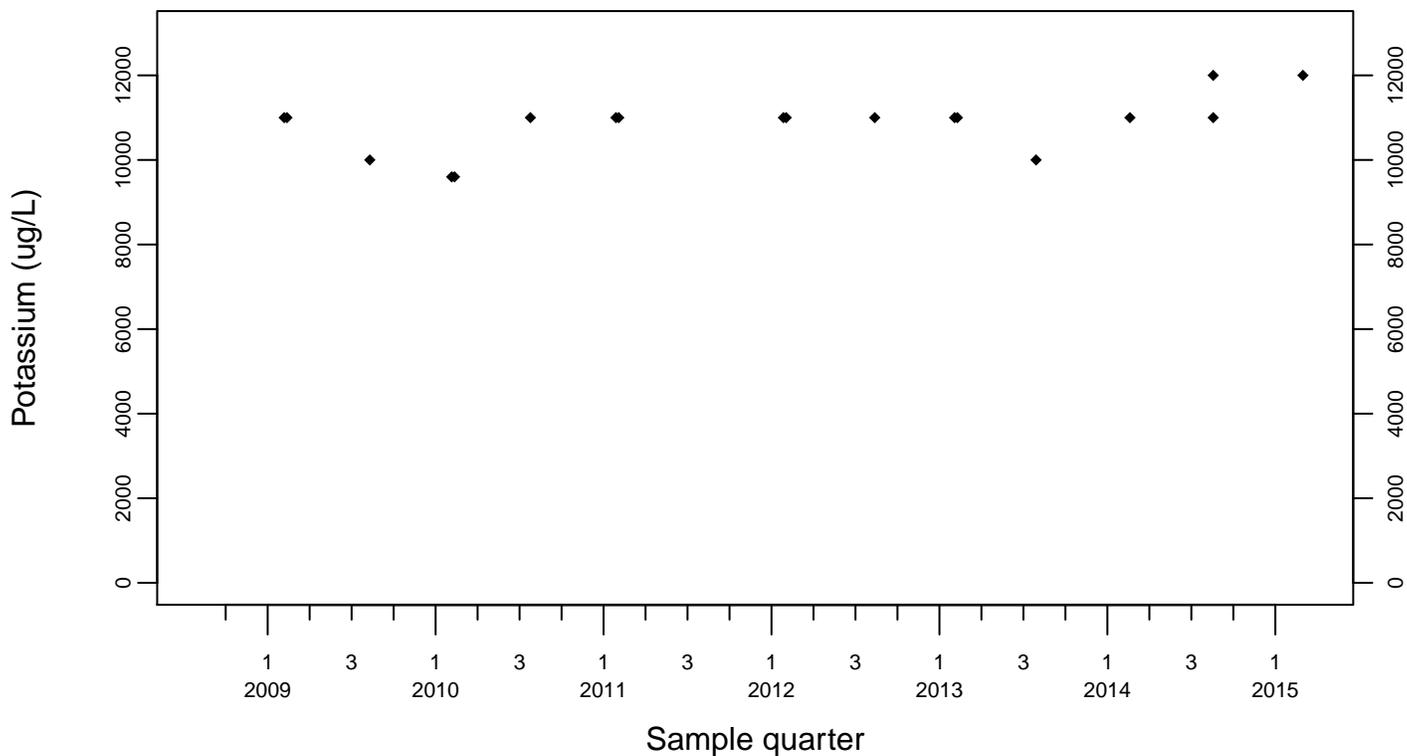


Sewage Ponds Ground Water Potassium (ug/L) Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



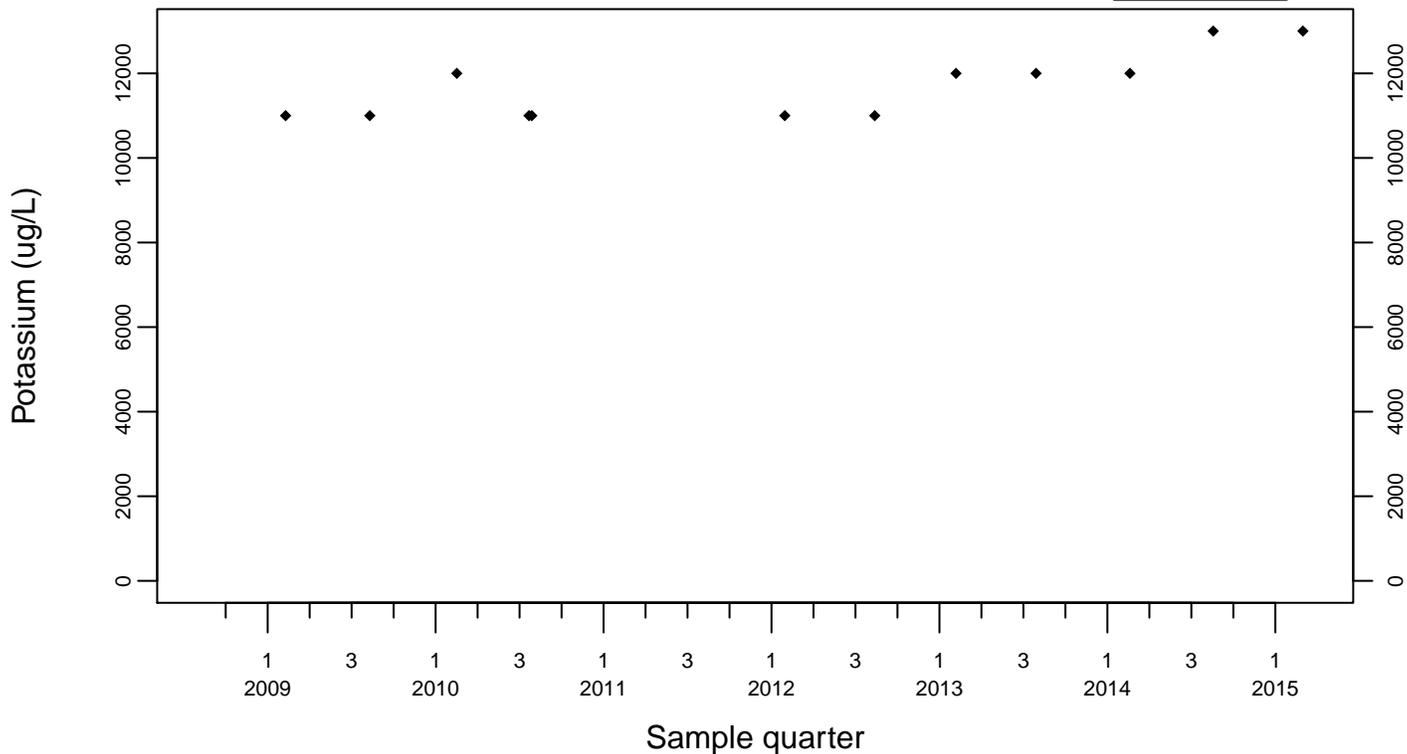
Downgradient Monitor Well W-25N-23



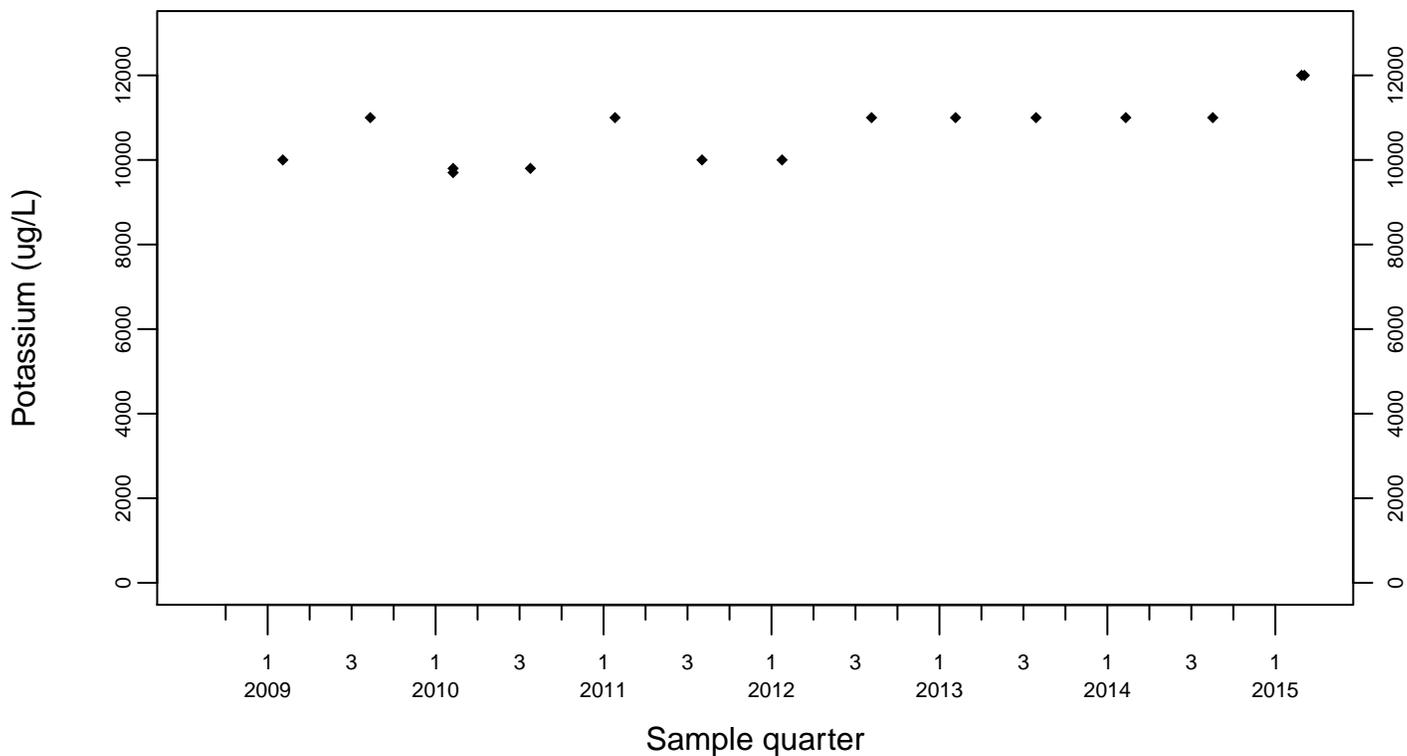
Sewage Ponds Ground Water
 Potassium (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
 ▼ Below RL



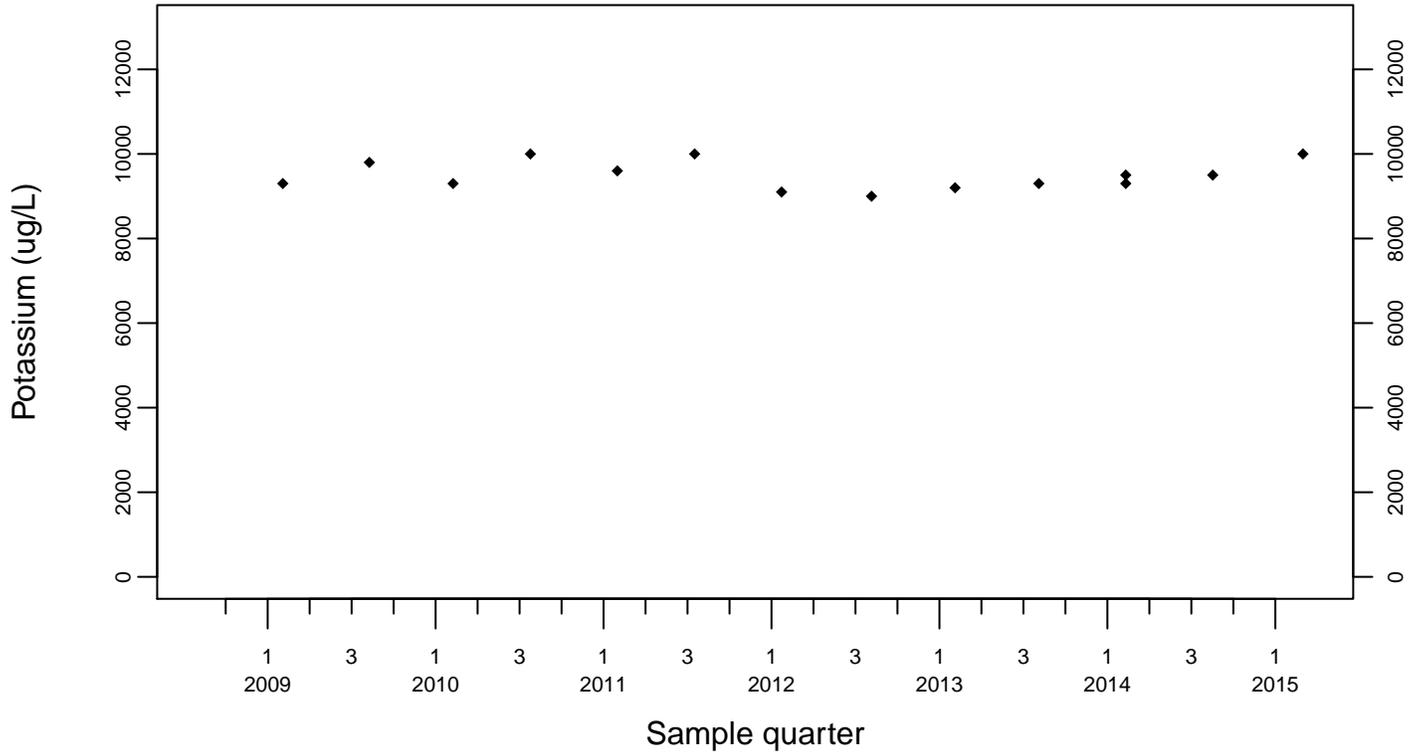
Downgradient Monitor Well W-26R-01



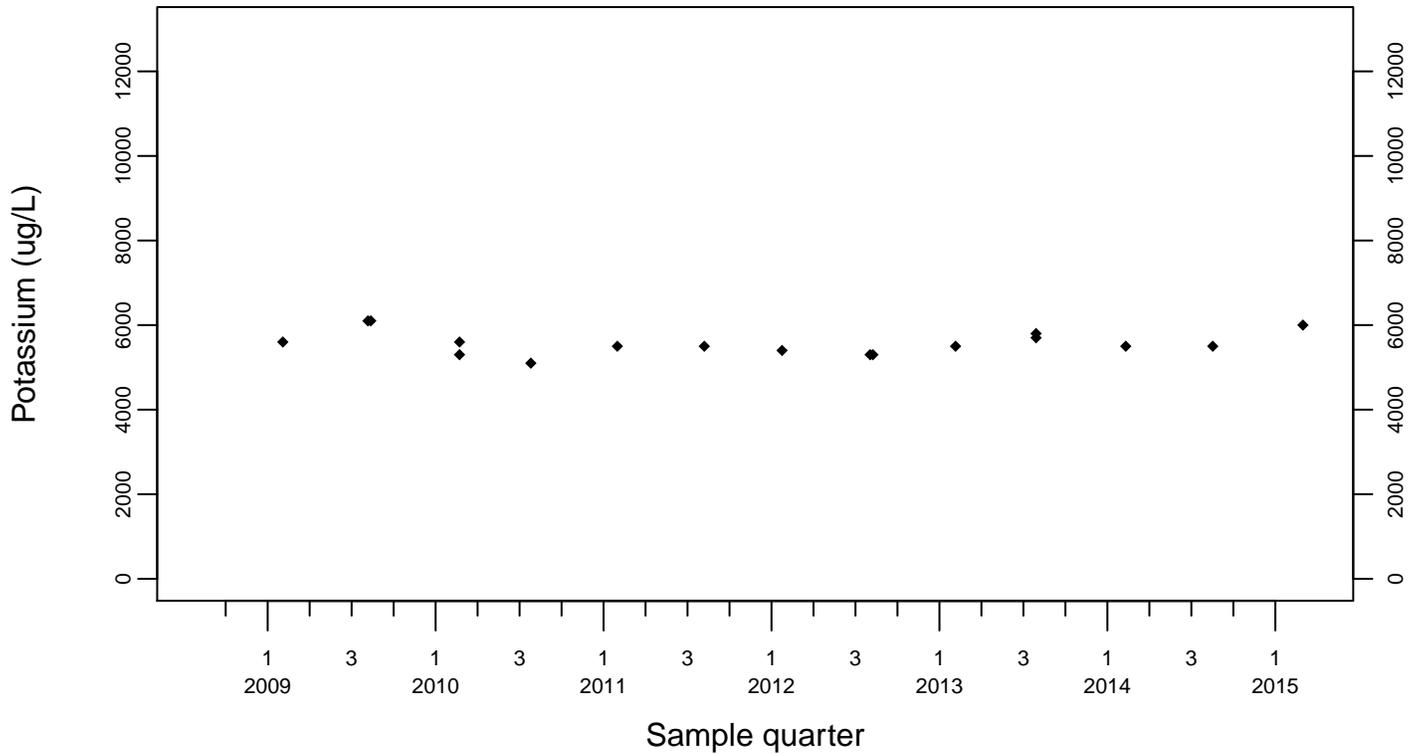
Sewage Ponds Ground Water Potassium (ug/L)

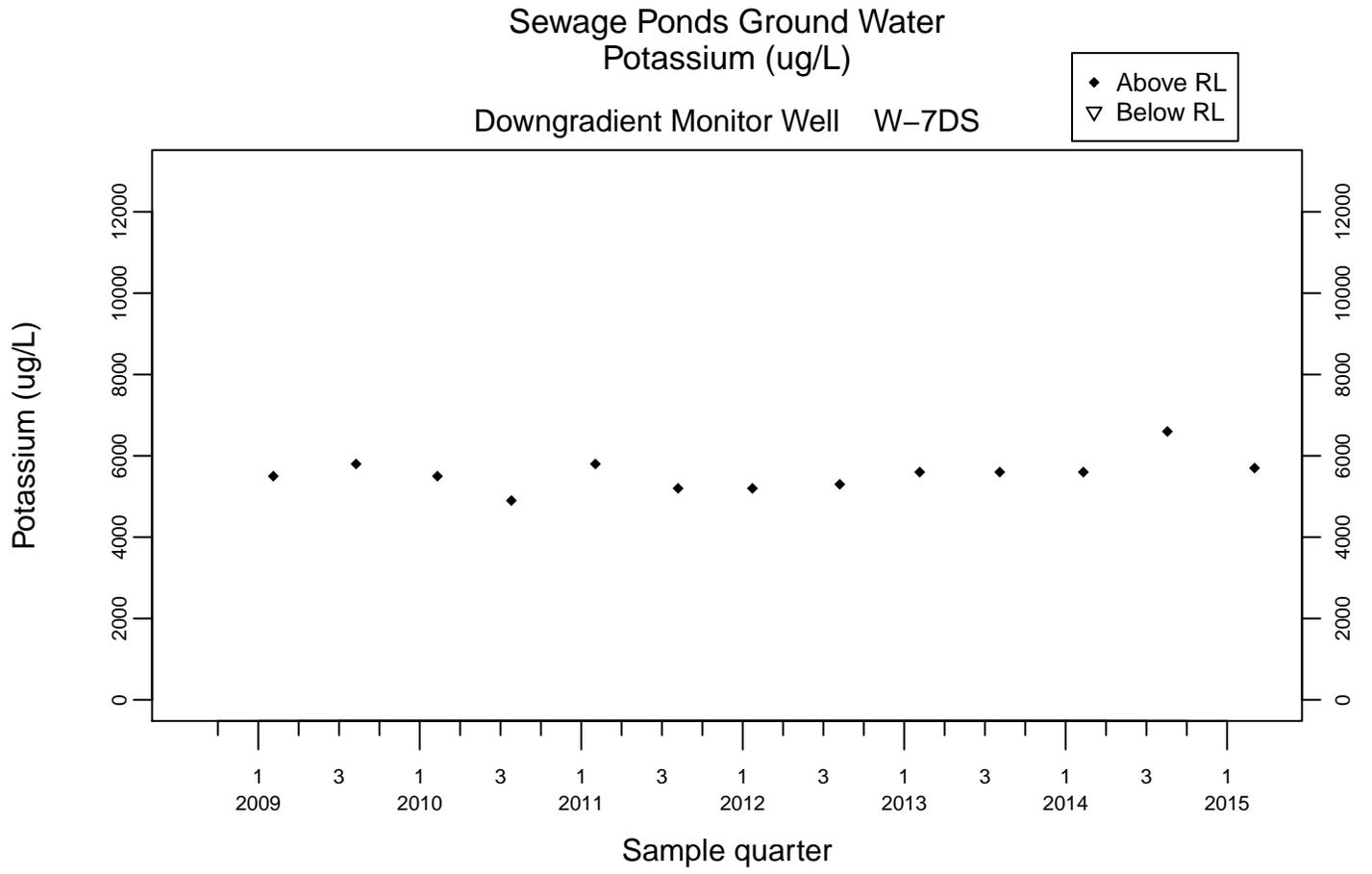
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

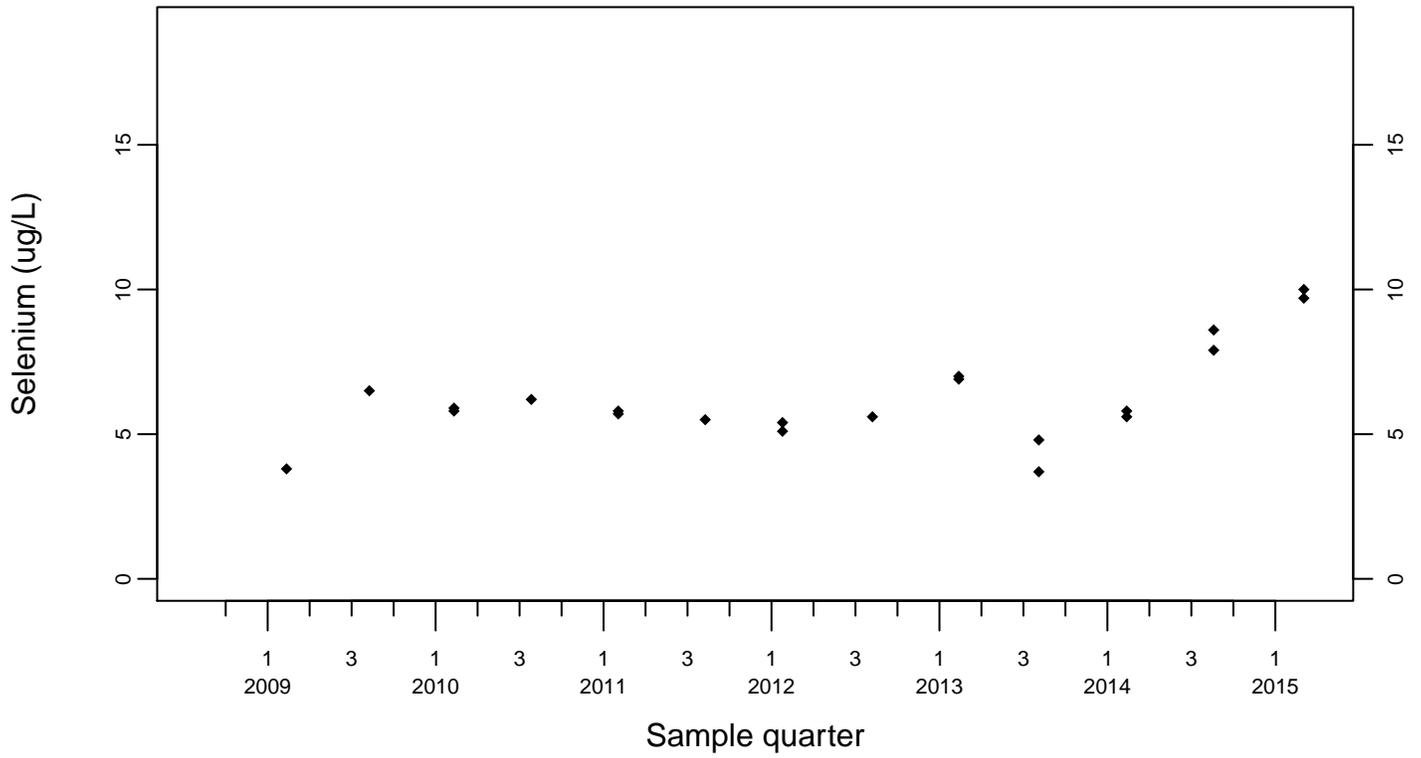




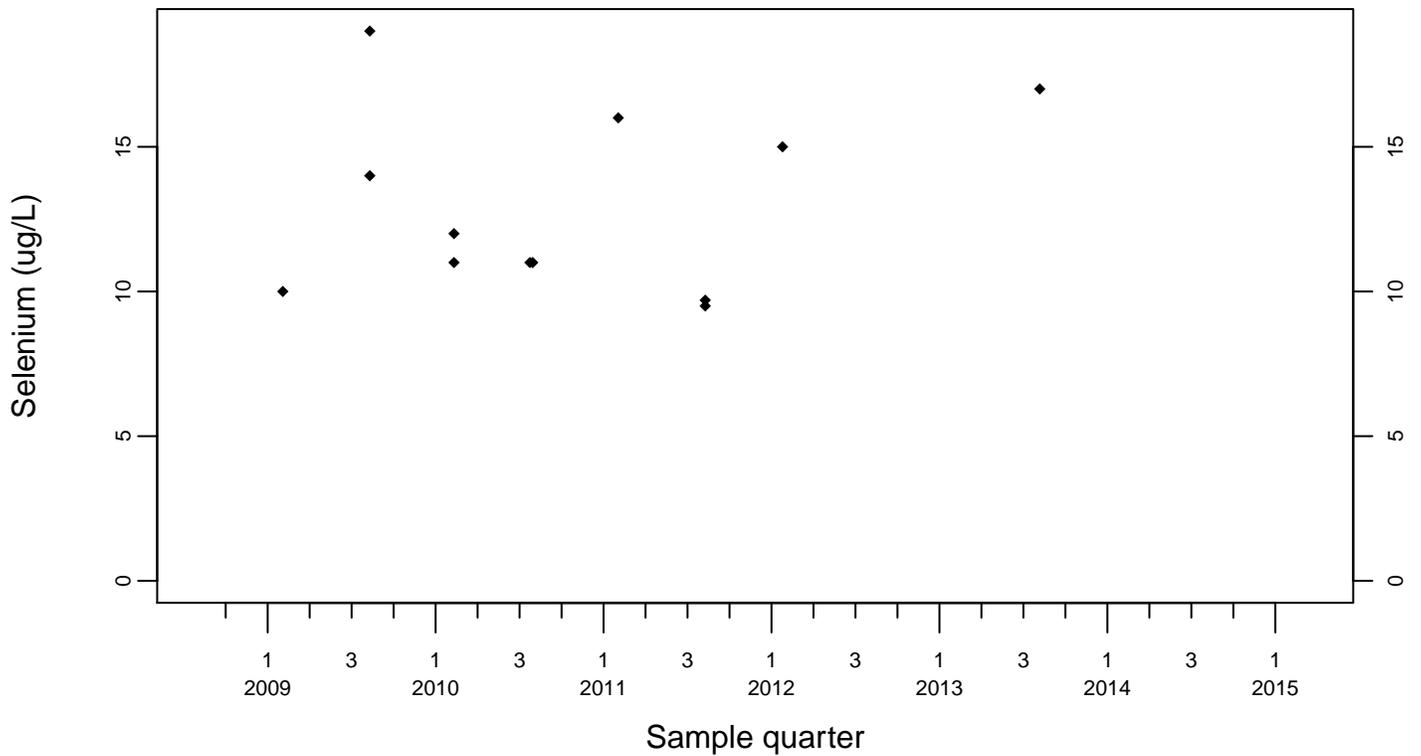
Sewage Ponds Ground Water Selenium (ug/L)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL



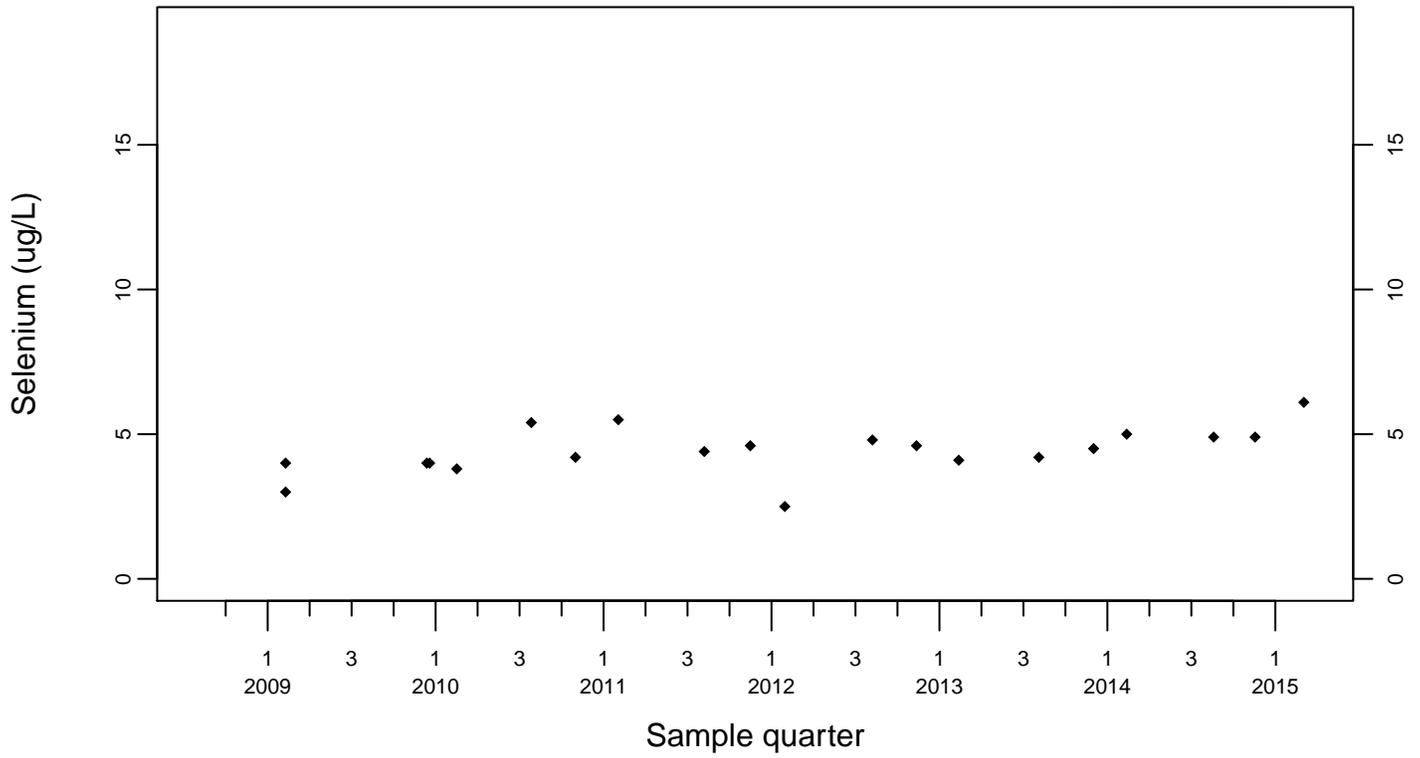
Upgradient Monitor Well W-7PS



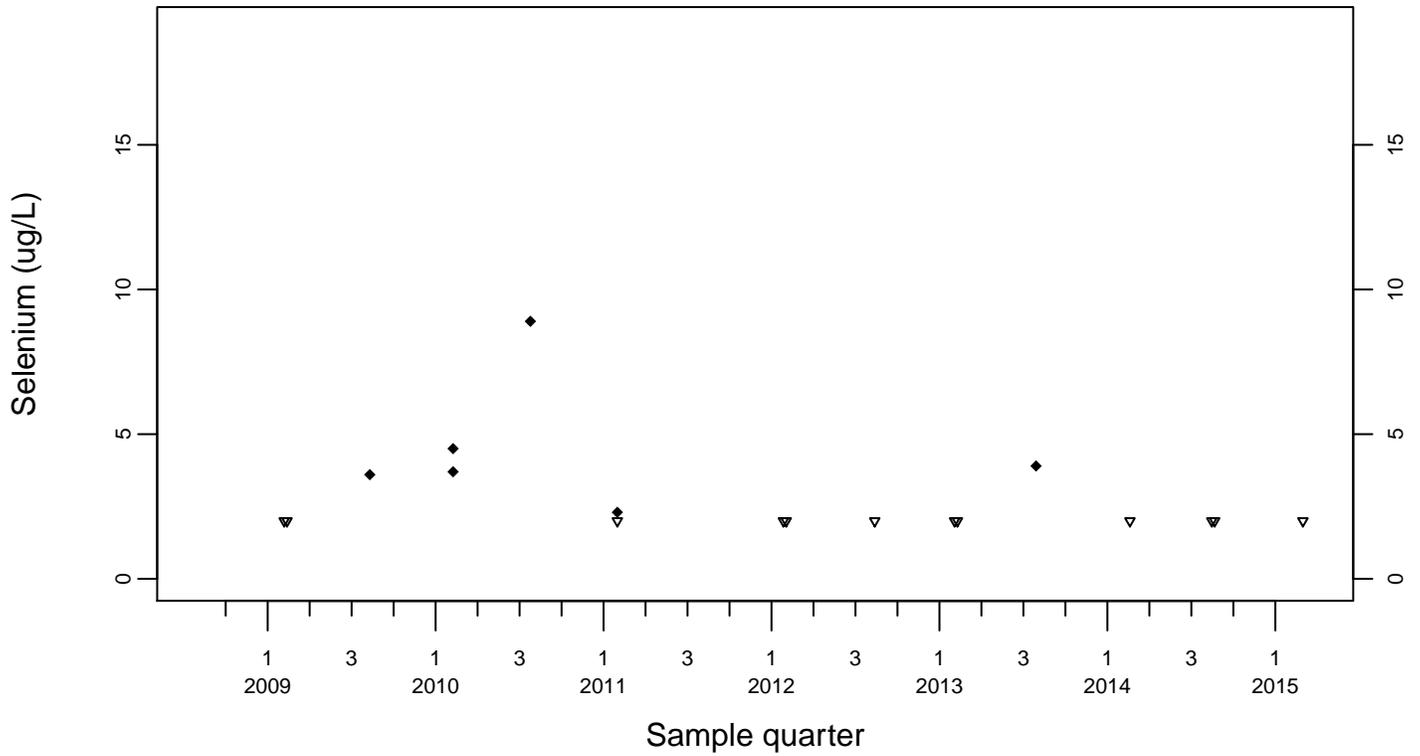
Sewage Ponds Ground Water Selenium (ug/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



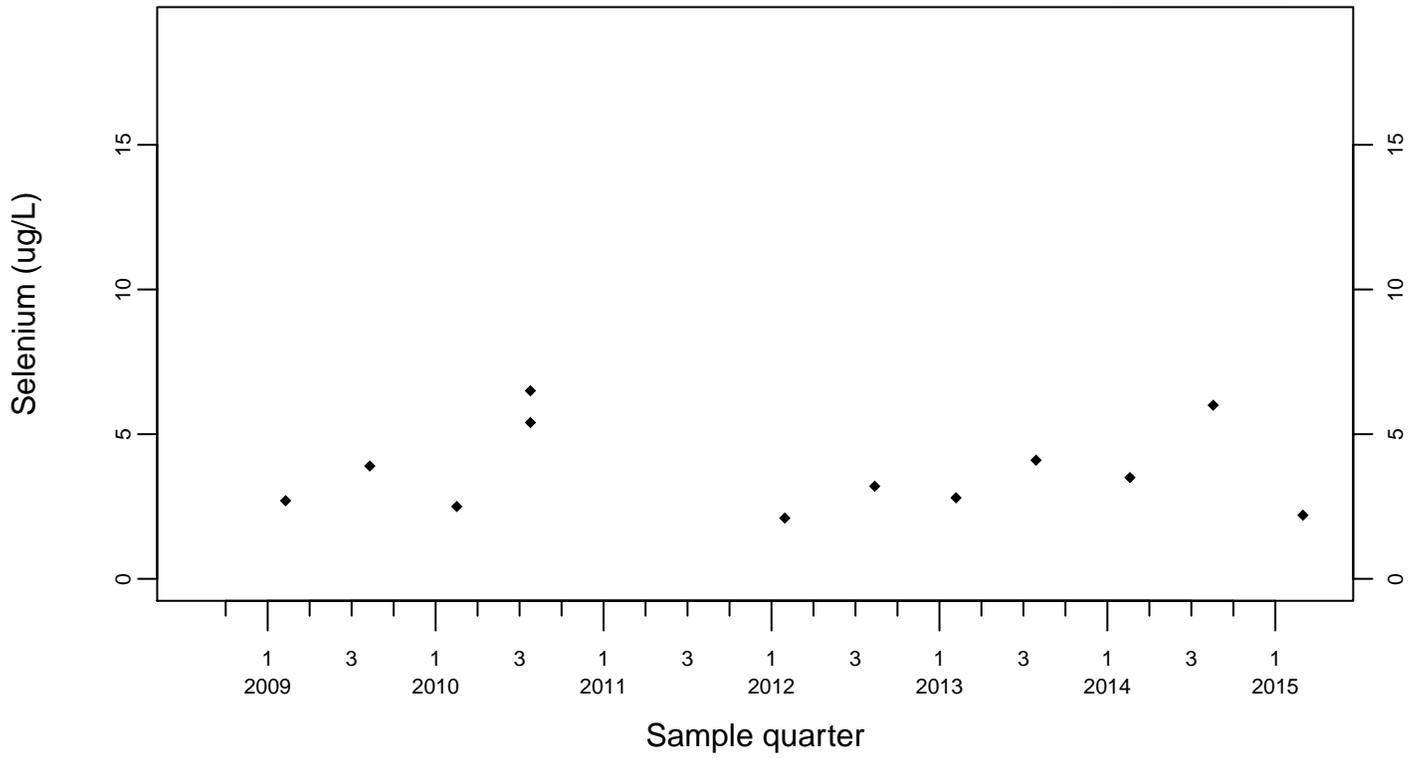
Downgradient Monitor Well W-25N-23



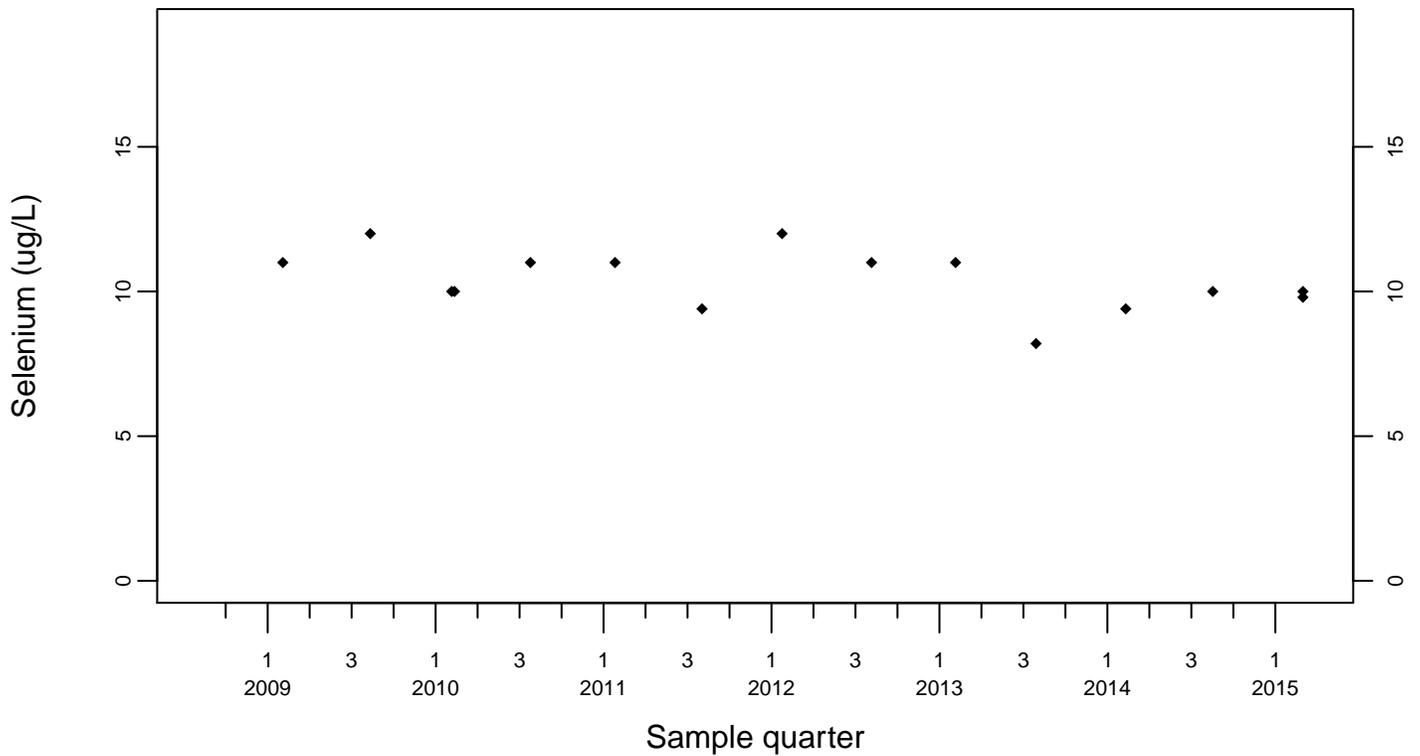
Sewage Ponds Ground Water Selenium (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



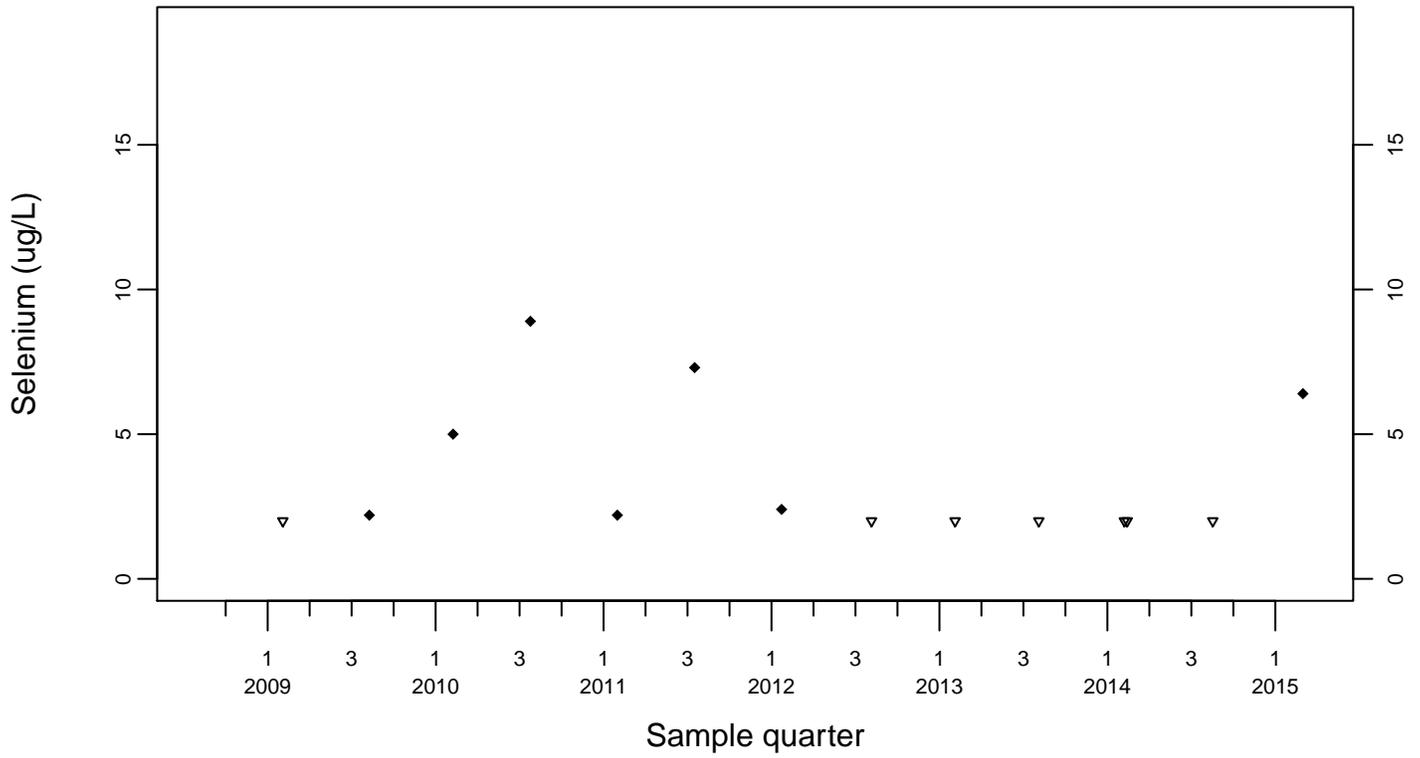
Downgradient Monitor Well W-26R-01



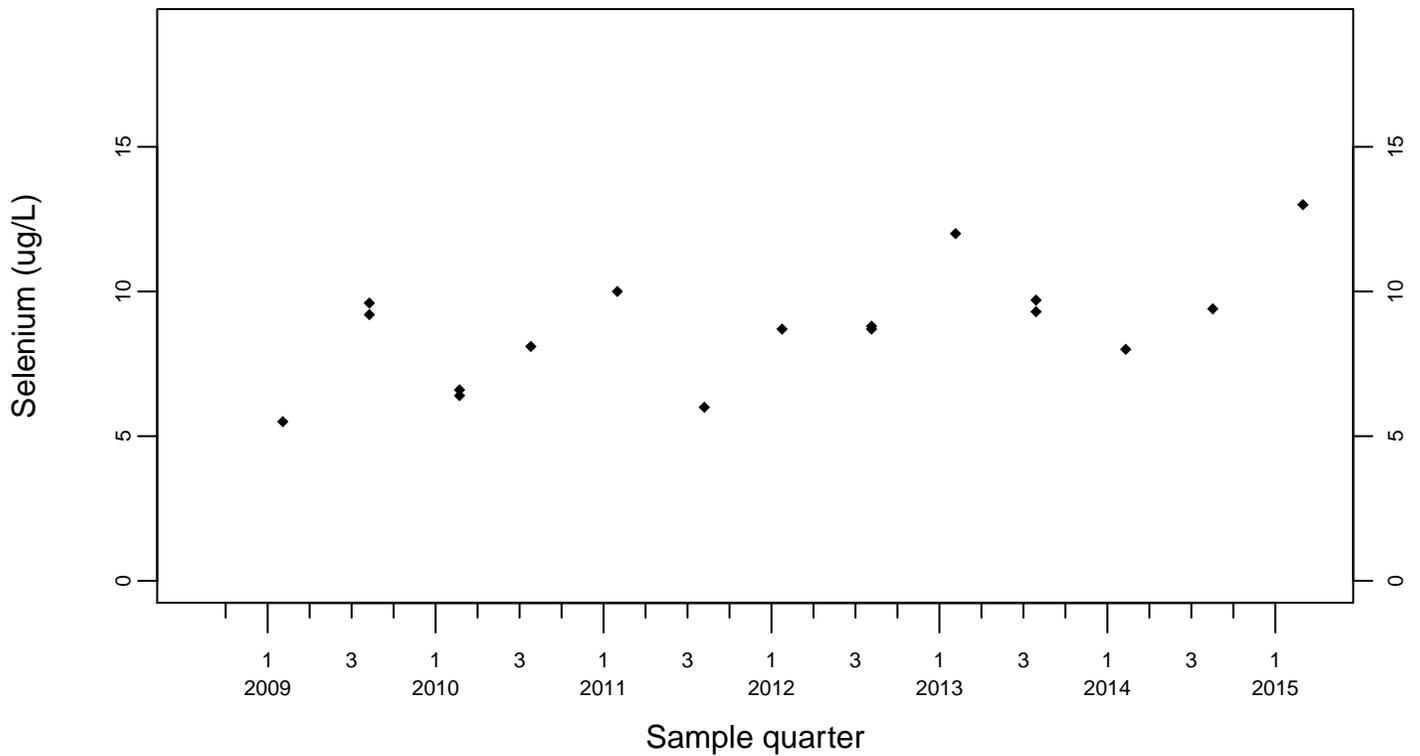
Sewage Ponds Ground Water Selenium (ug/L)

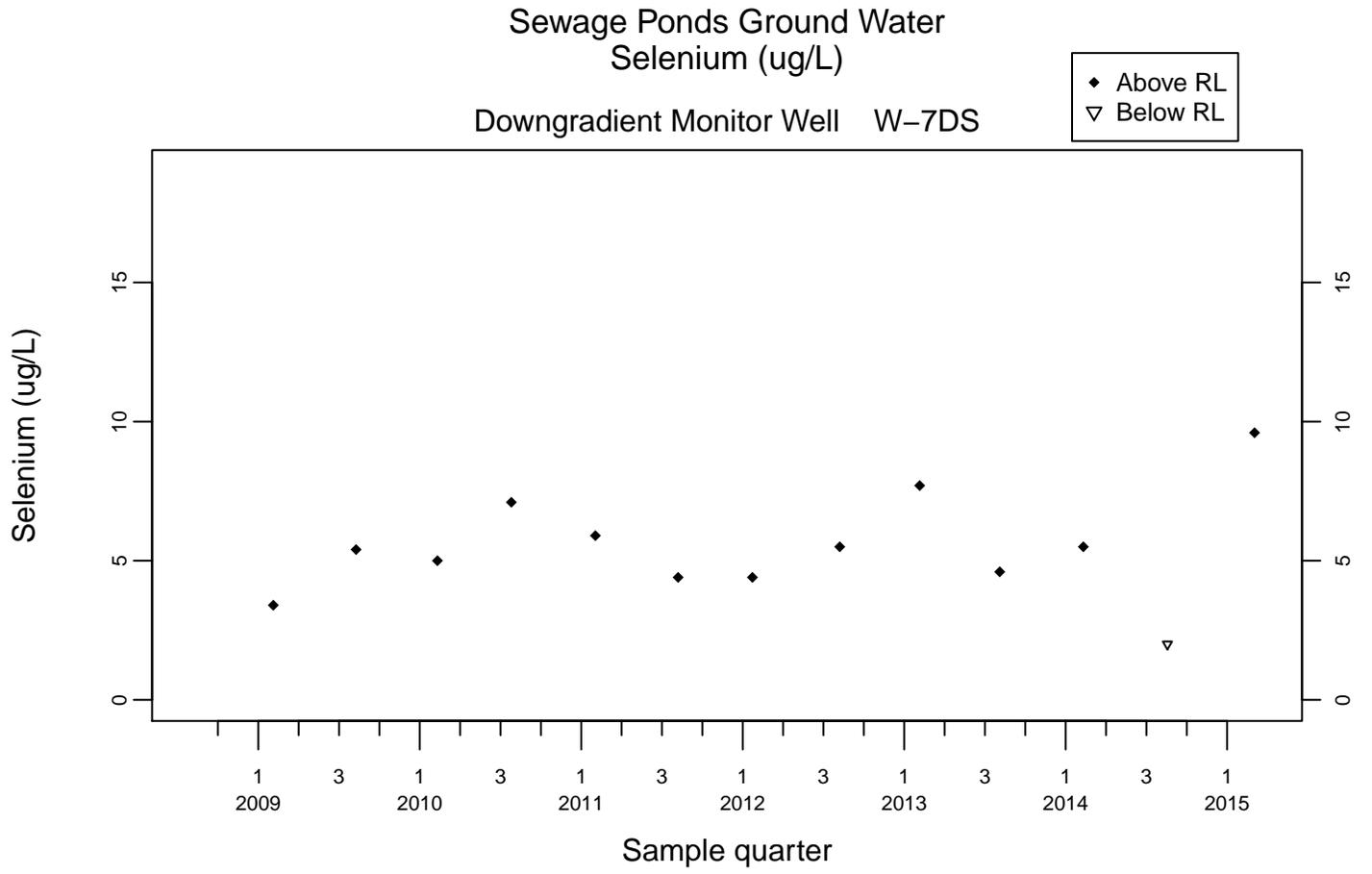
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

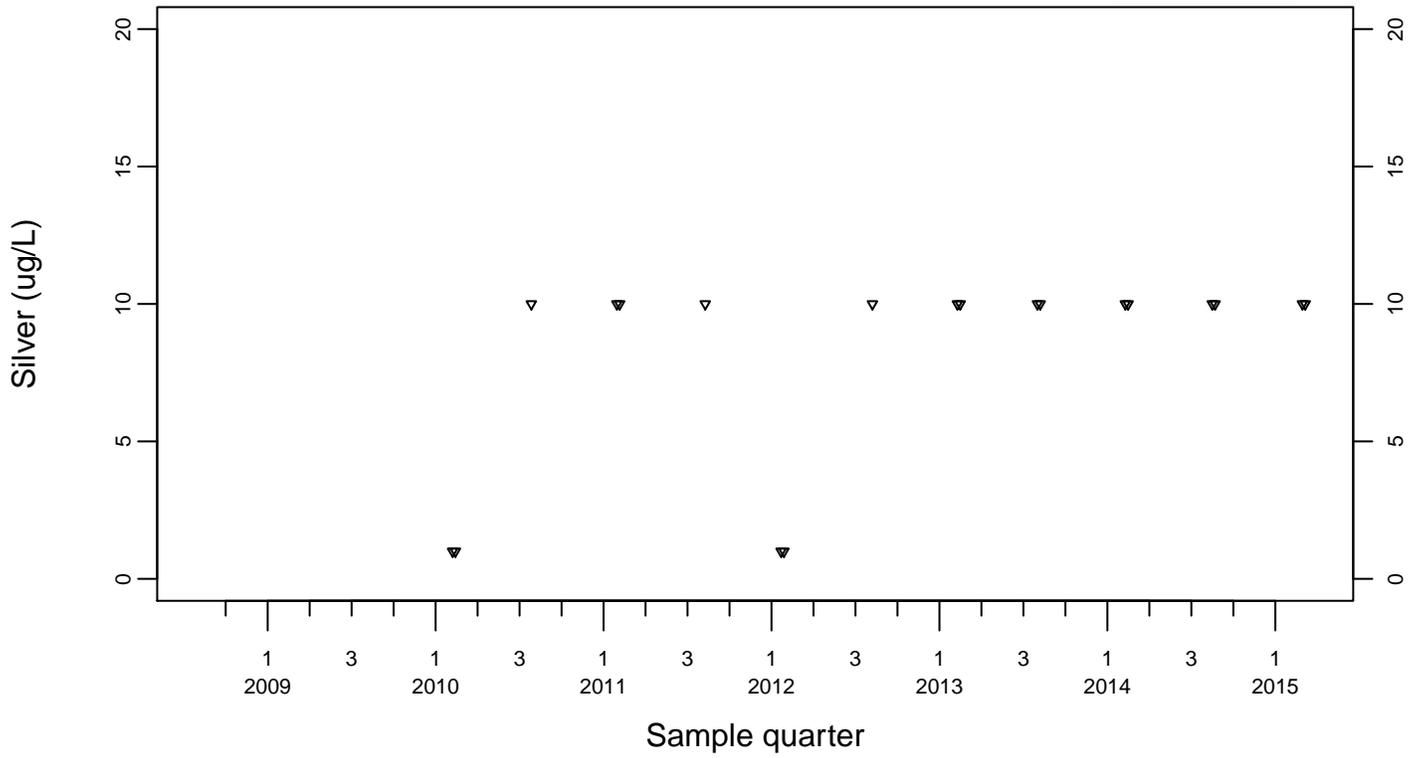




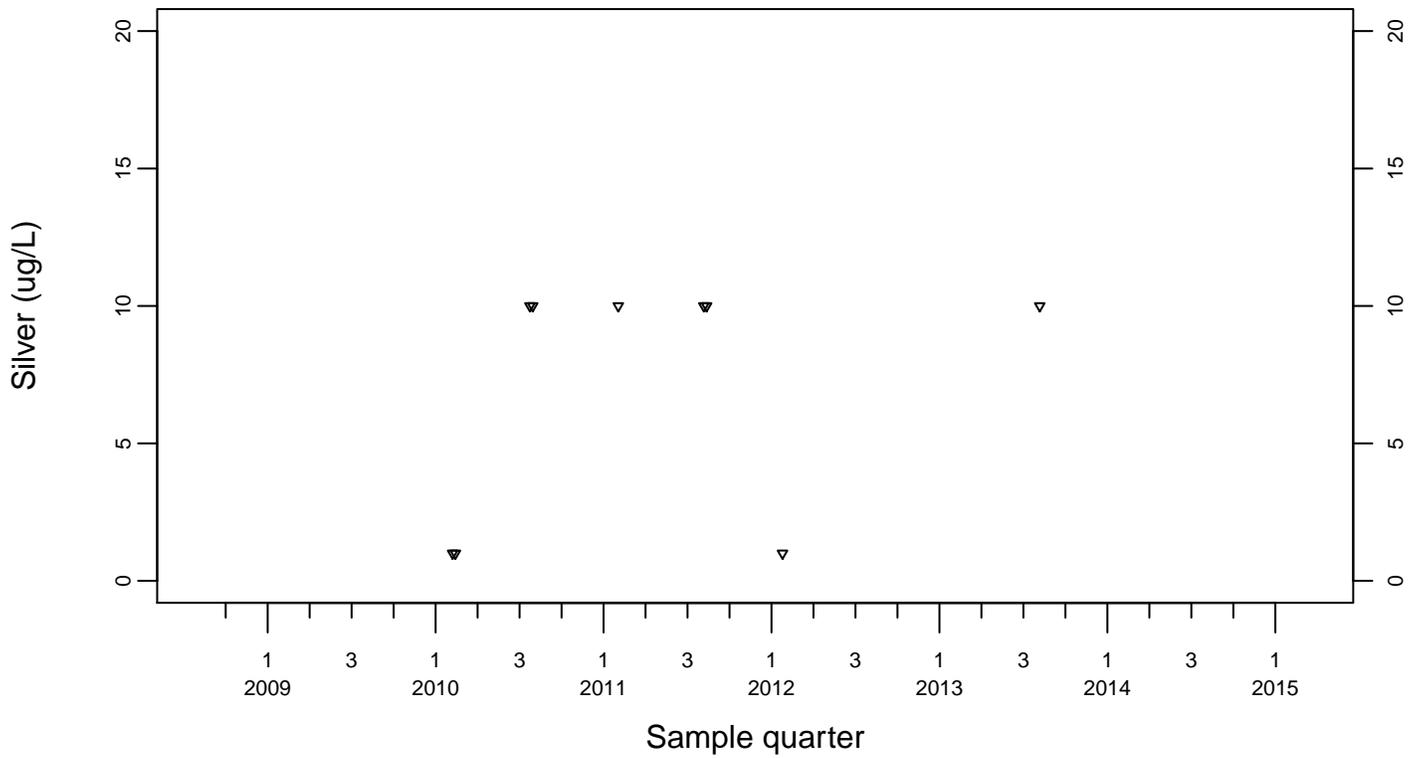
Sewage Ponds Ground Water Silver (ug/L)

Upgradient Monitor Well W-7ES

- ◆ Above RL
- ▽ Below RL
- + Estimated



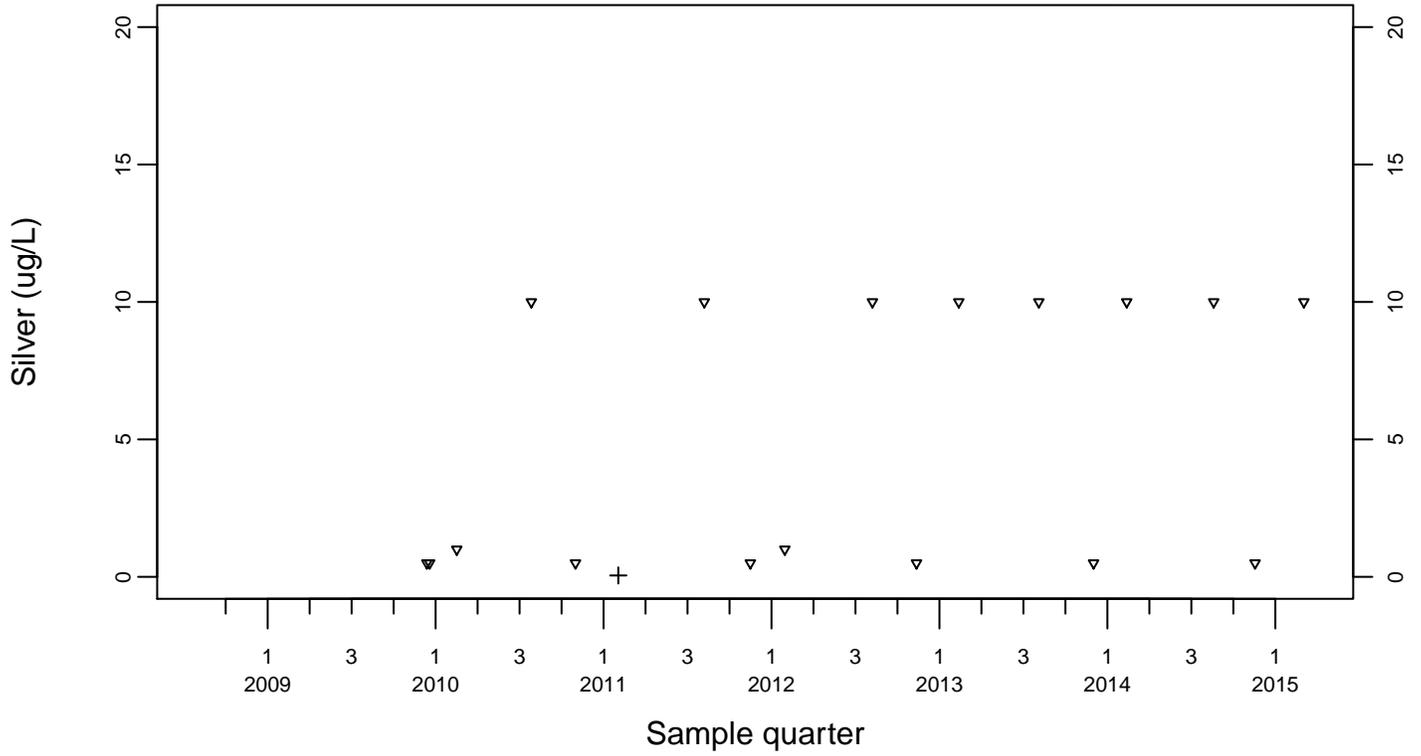
Upgradient Monitor Well W-7PS



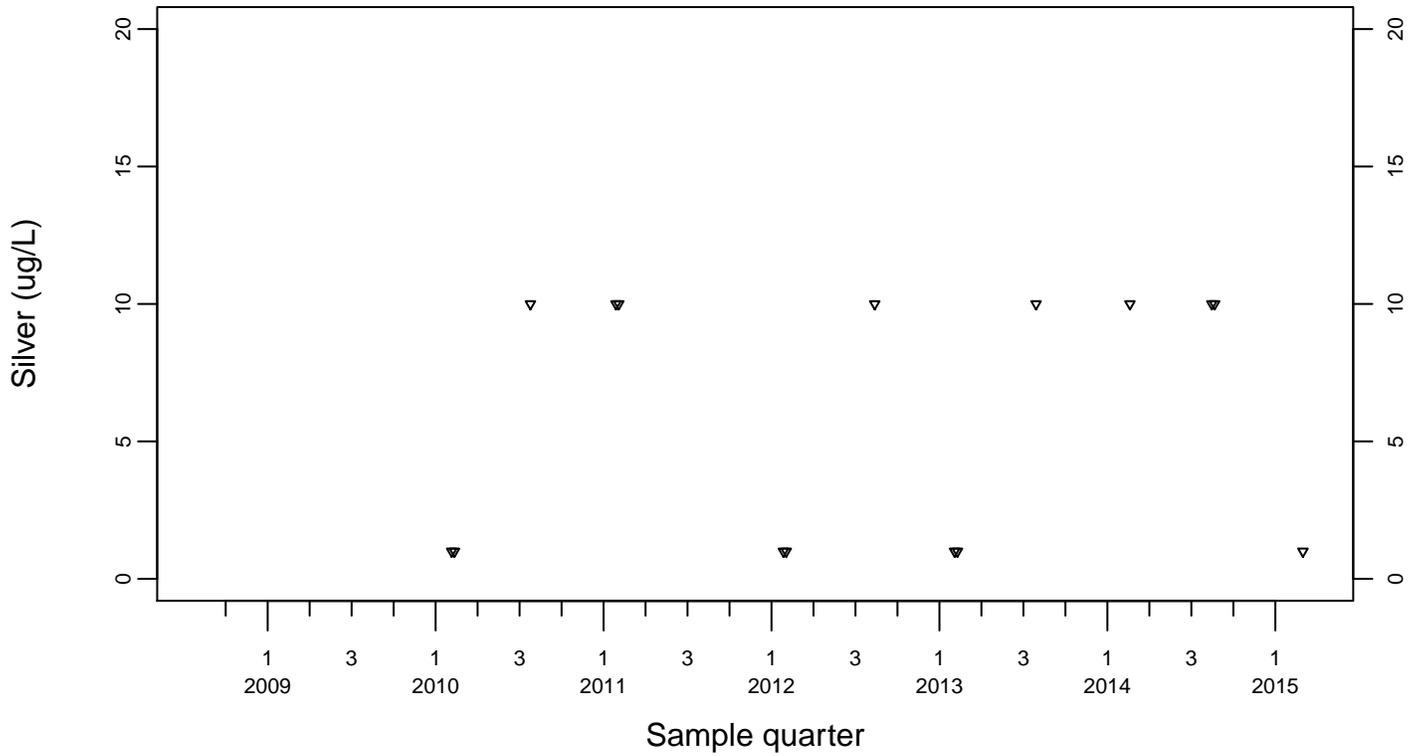
Sewage Ponds Ground Water Silver (ug/L)

Crossgradient Monitor Well W-35A-04

- ◆ Above RL
- ▽ Below RL
- + Estimated



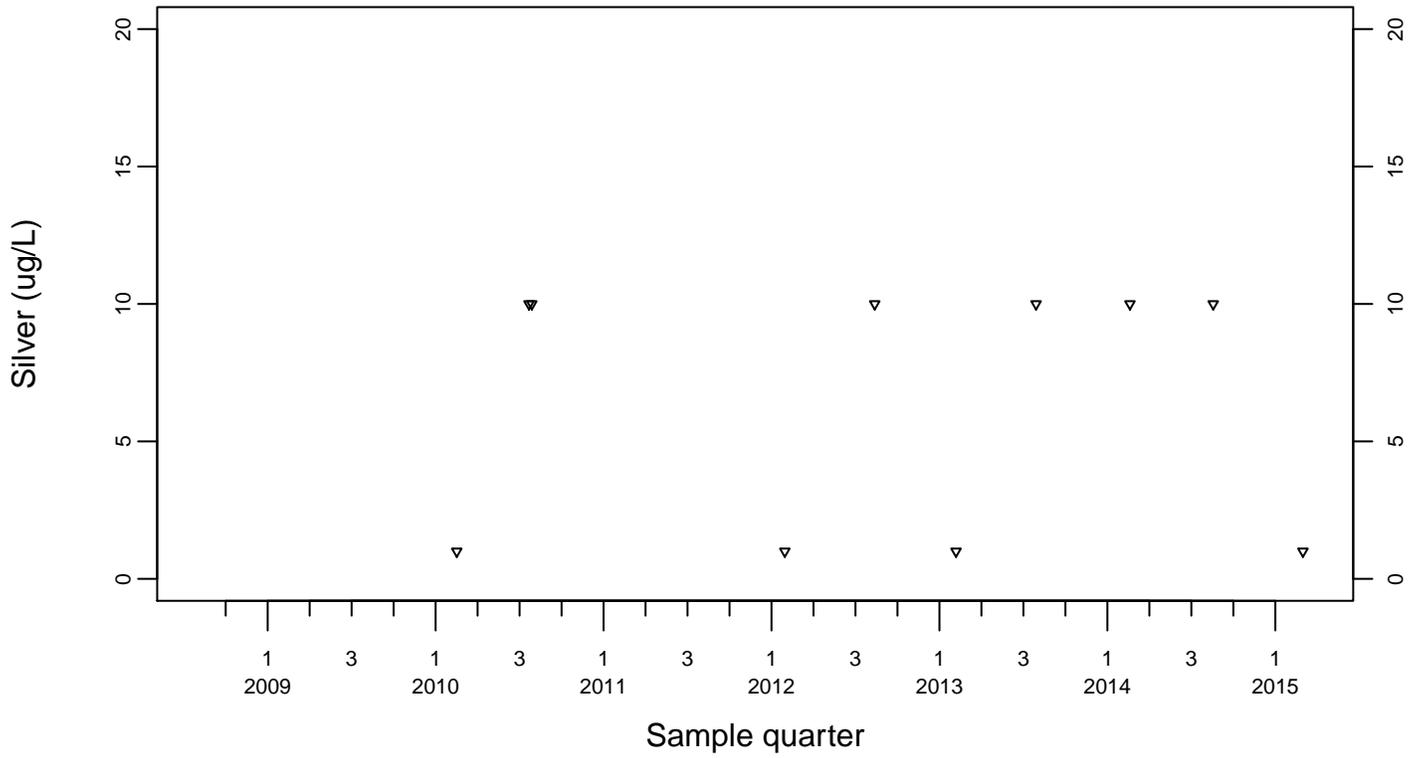
Downgradient Monitor Well W-25N-23



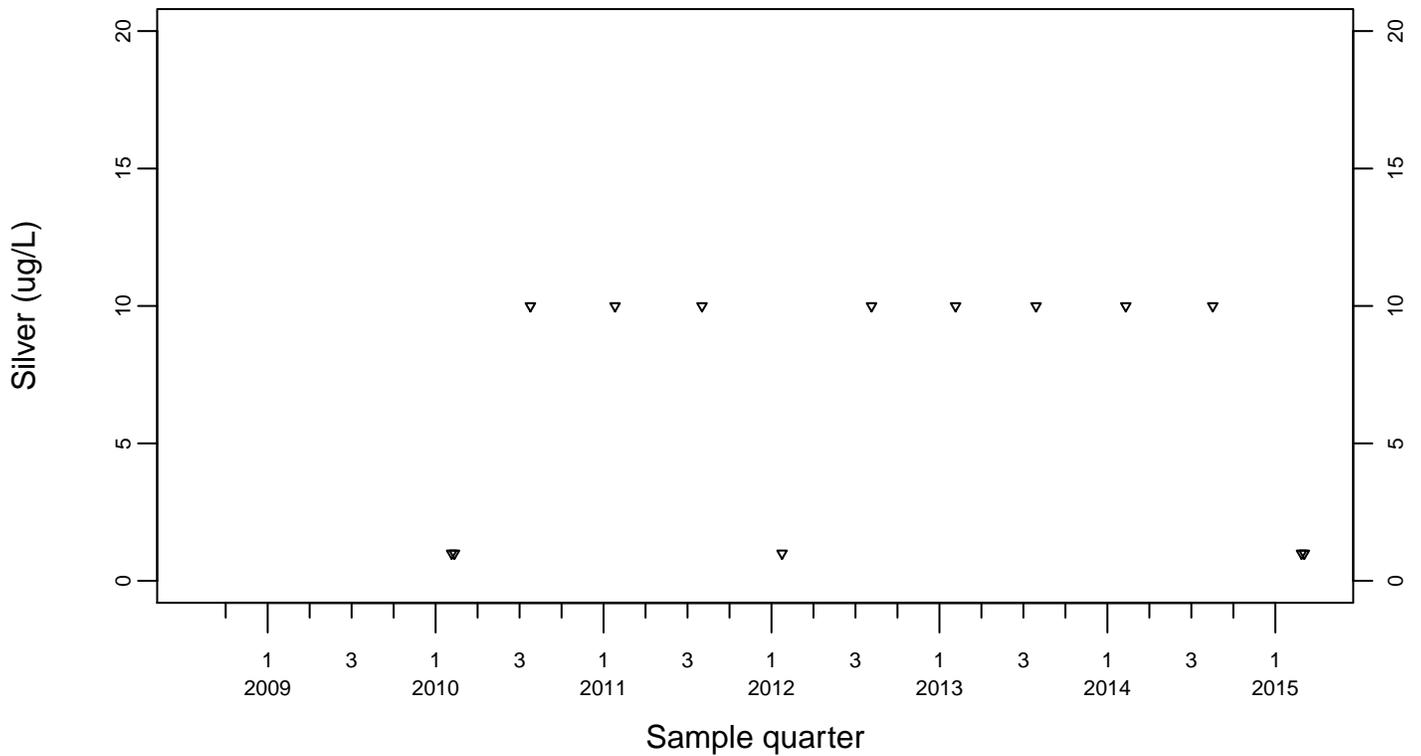
Sewage Ponds Ground Water Silver (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



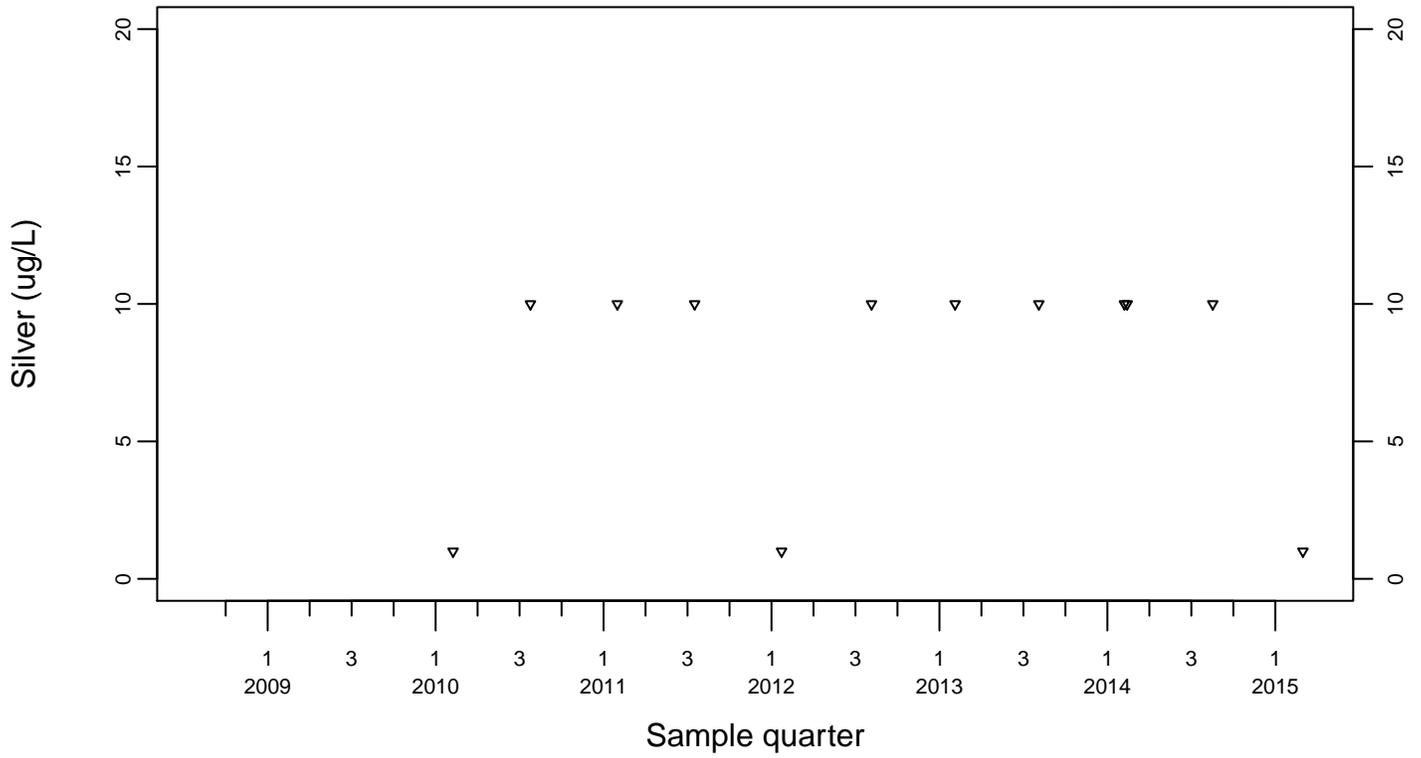
Downgradient Monitor Well W-26R-01



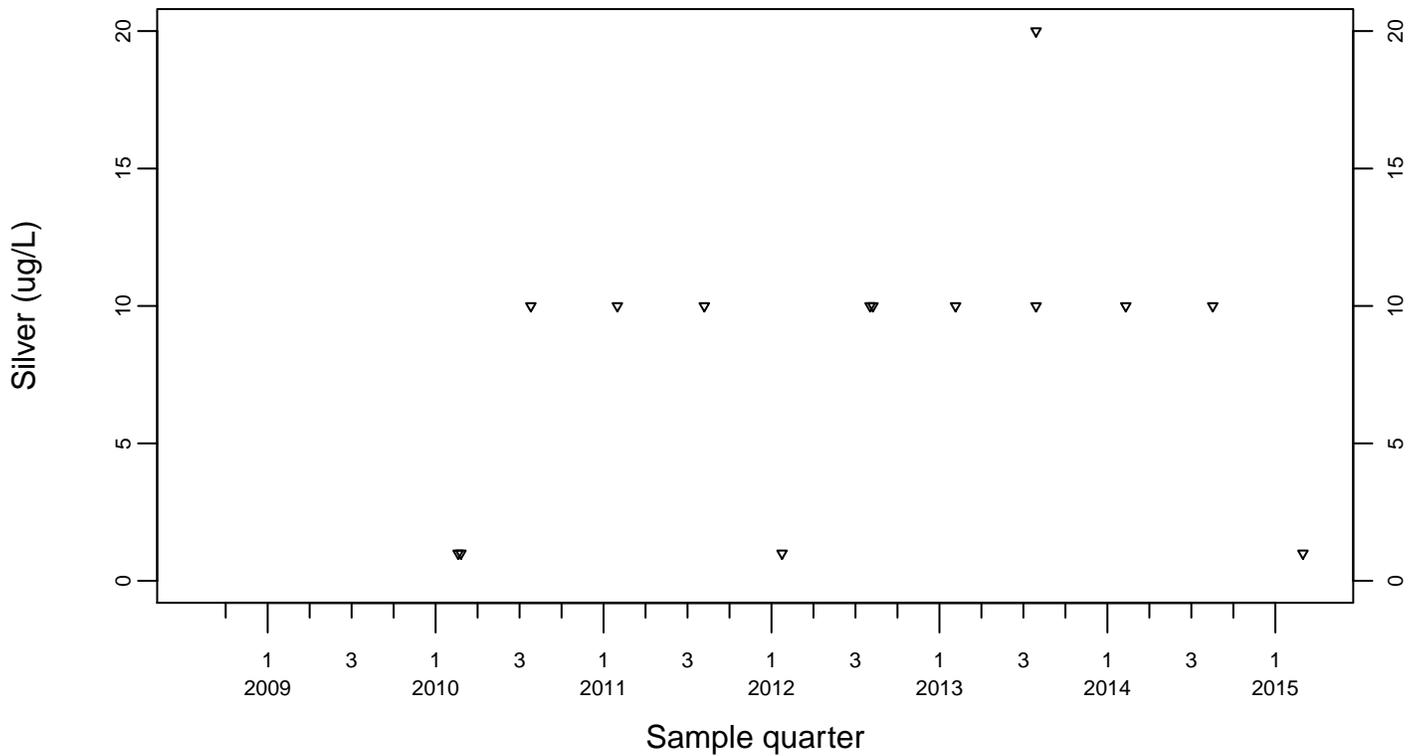
Sewage Ponds Ground Water Silver (ug/L)

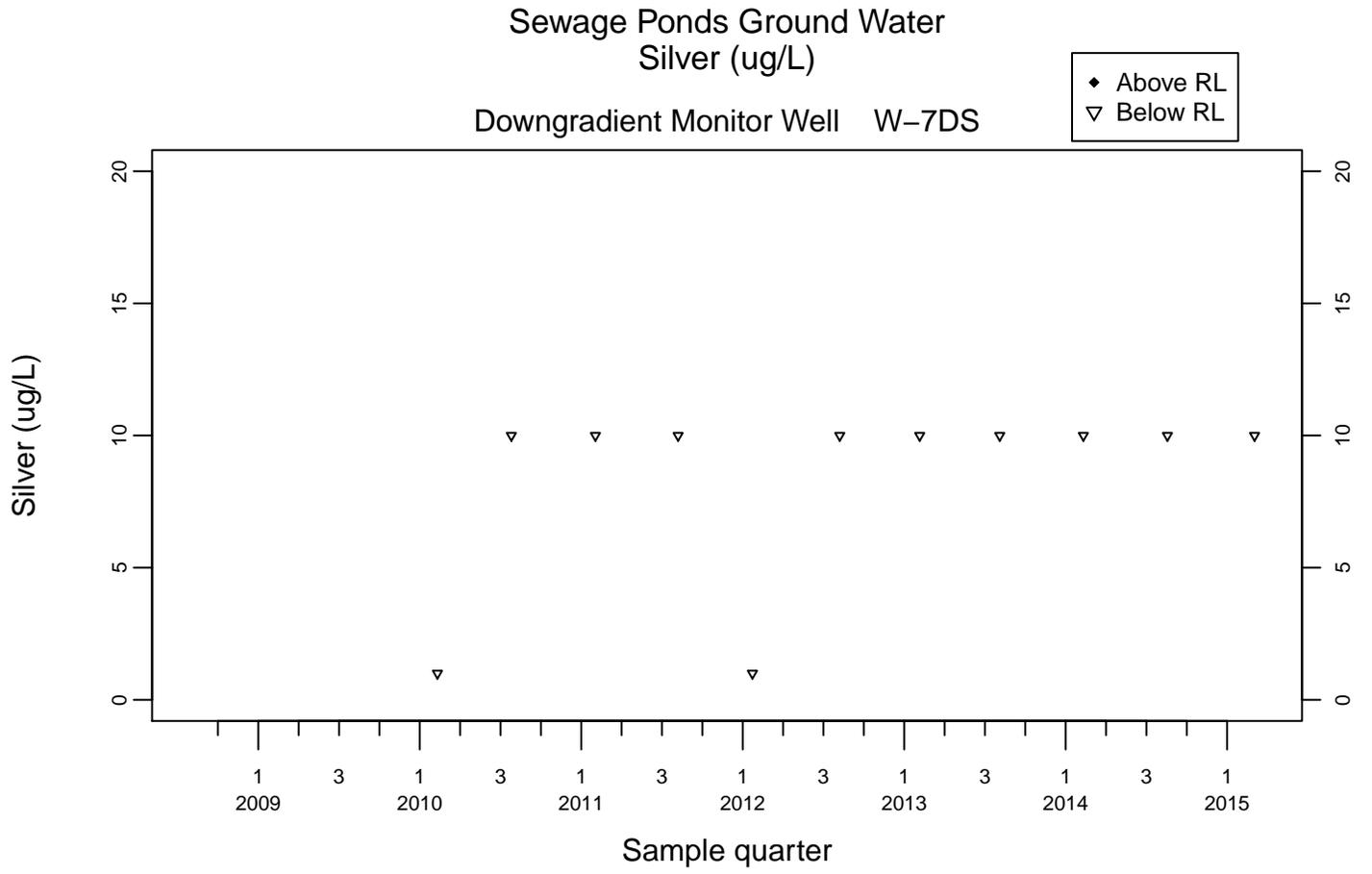
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

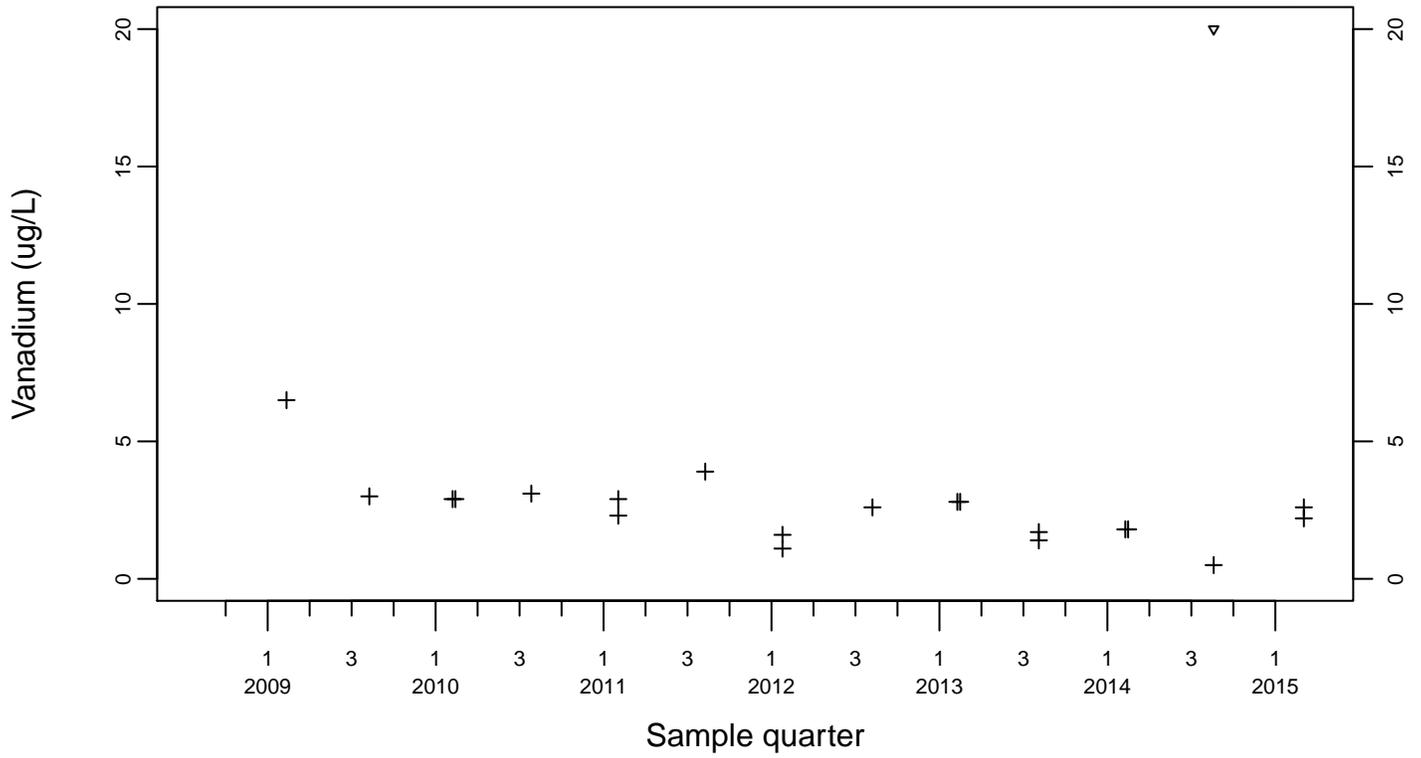




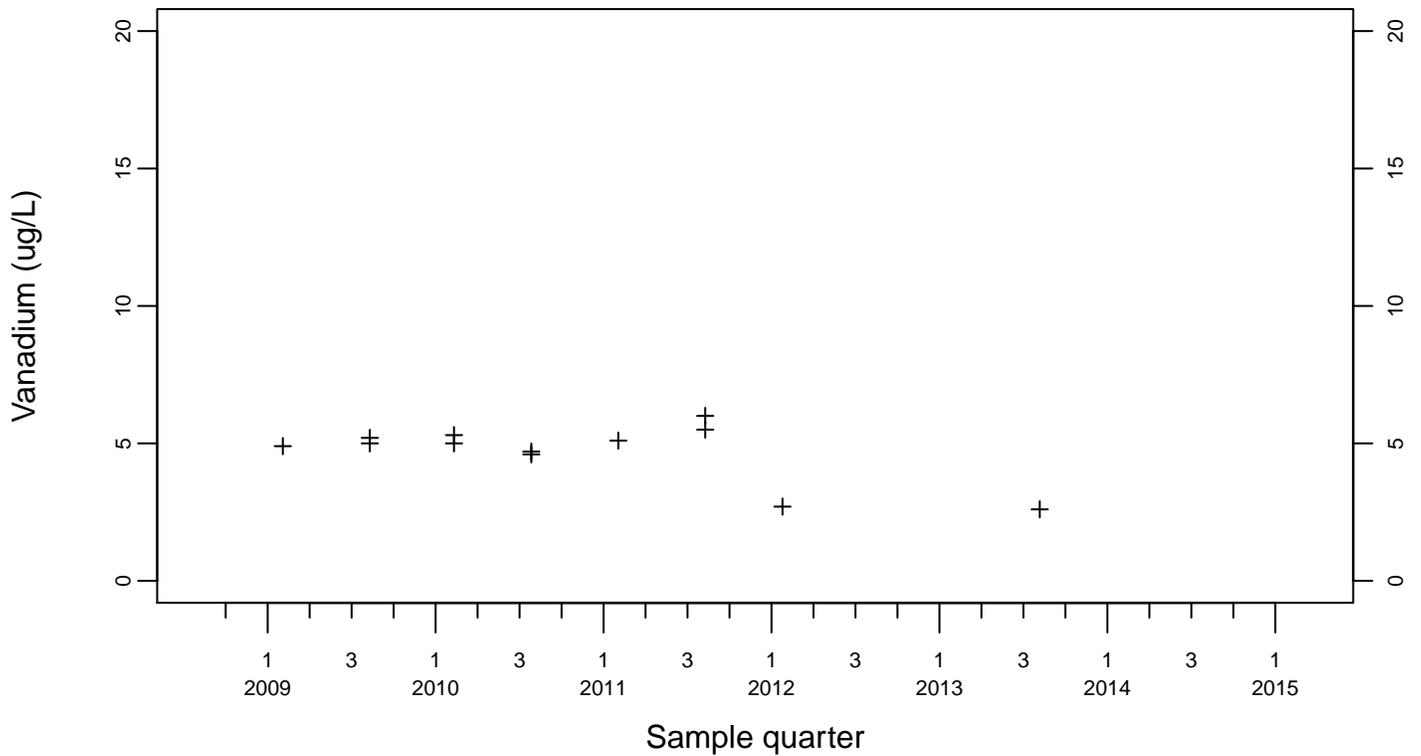
Sewage Ponds Ground Water Vanadium (ug/L)

Upgradient Monitor Well W-7ES

- ◆ Above RL
- ▽ Below RL
- + Estimated



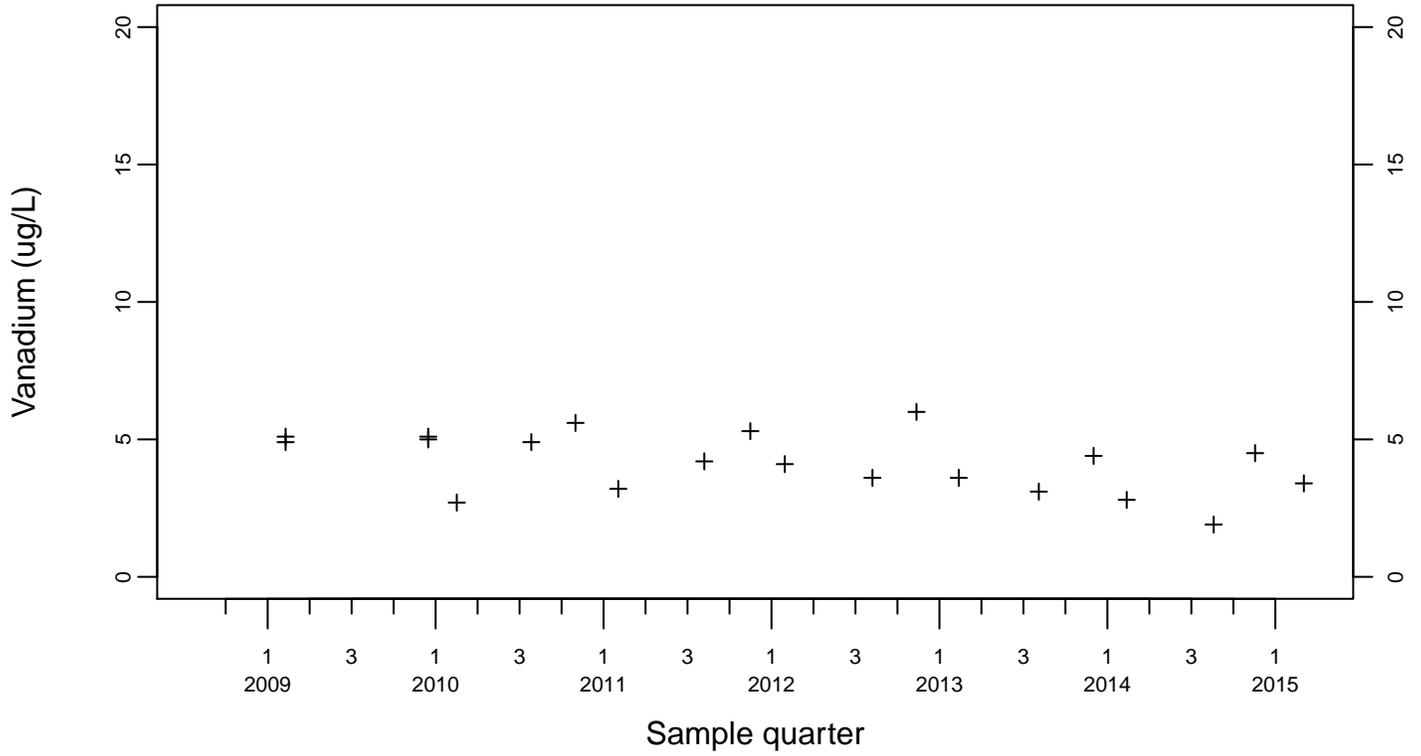
Upgradient Monitor Well W-7PS



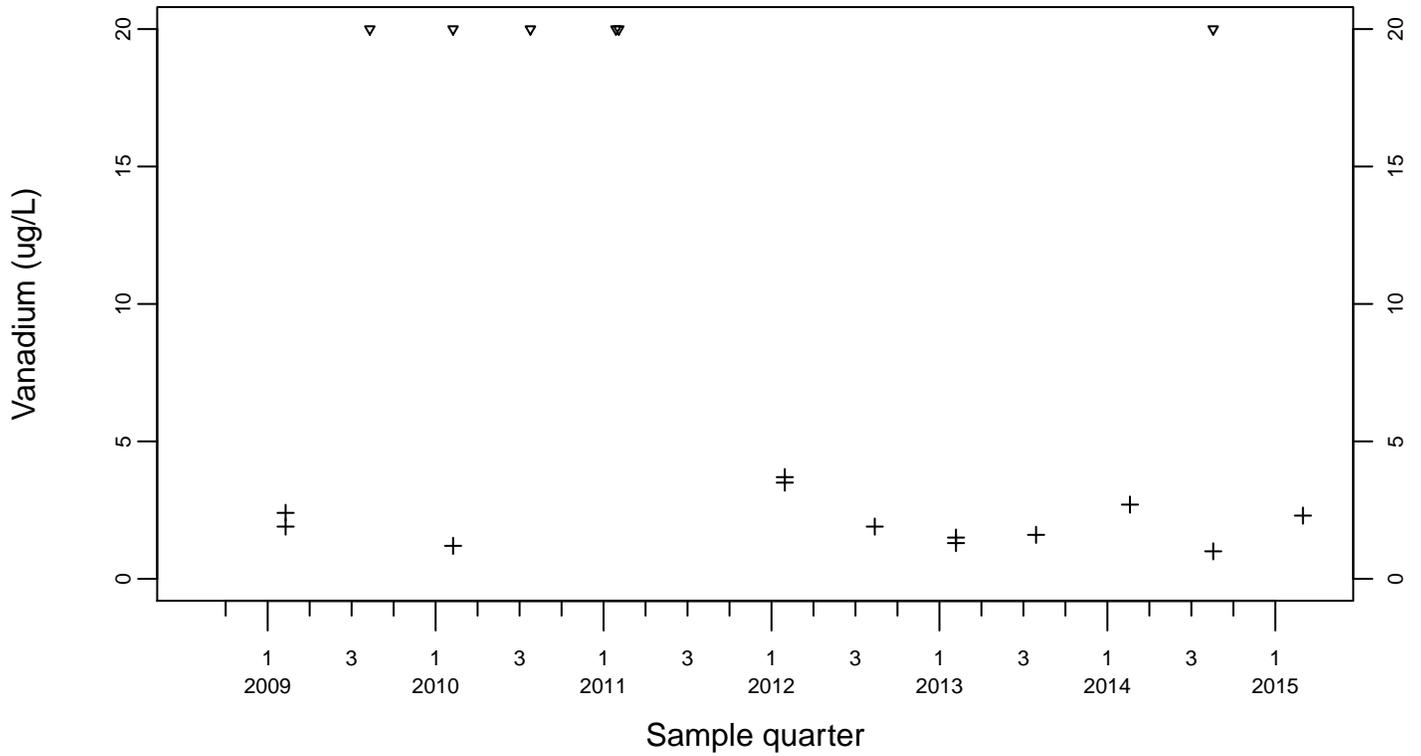
Sewage Ponds Ground Water
 Vanadium (ug/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
 + Estimated



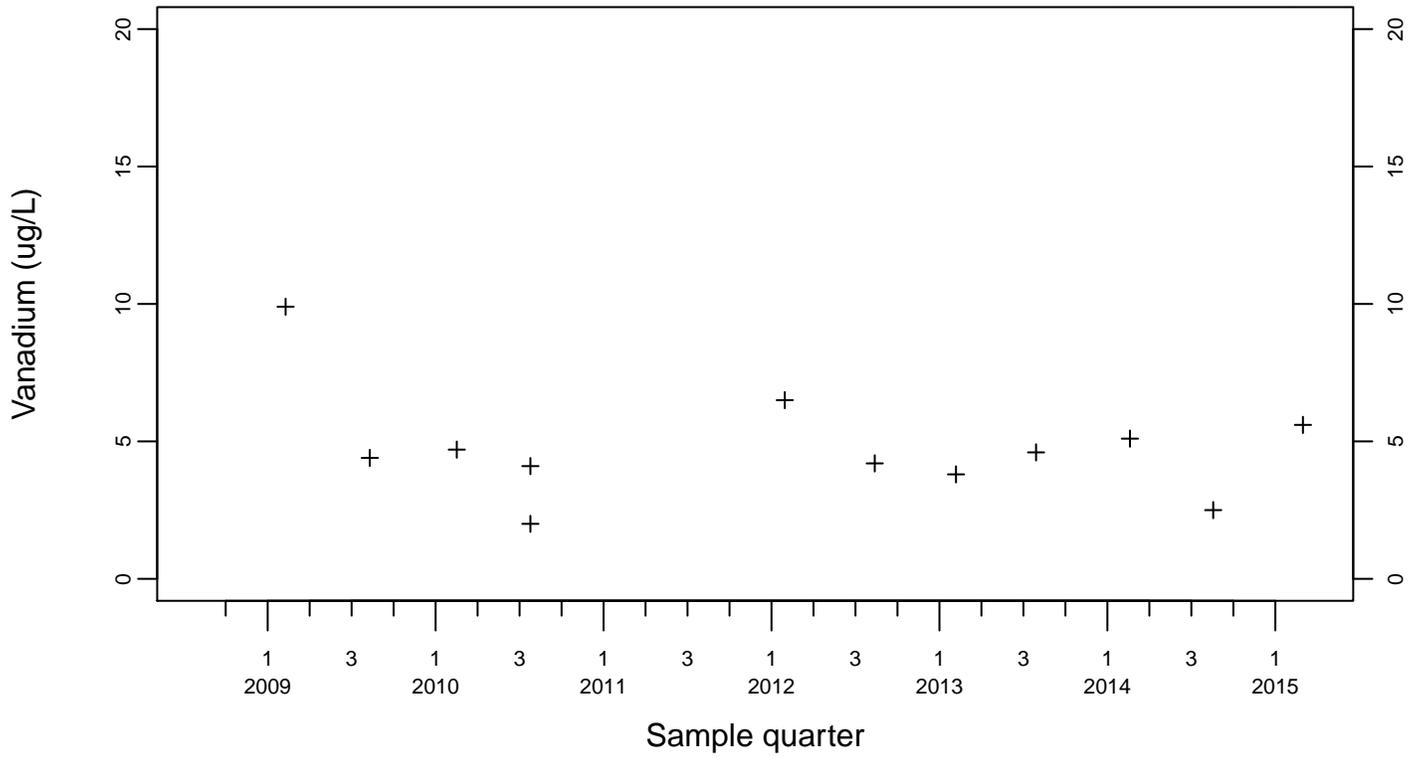
Downgradient Monitor Well W-25N-23



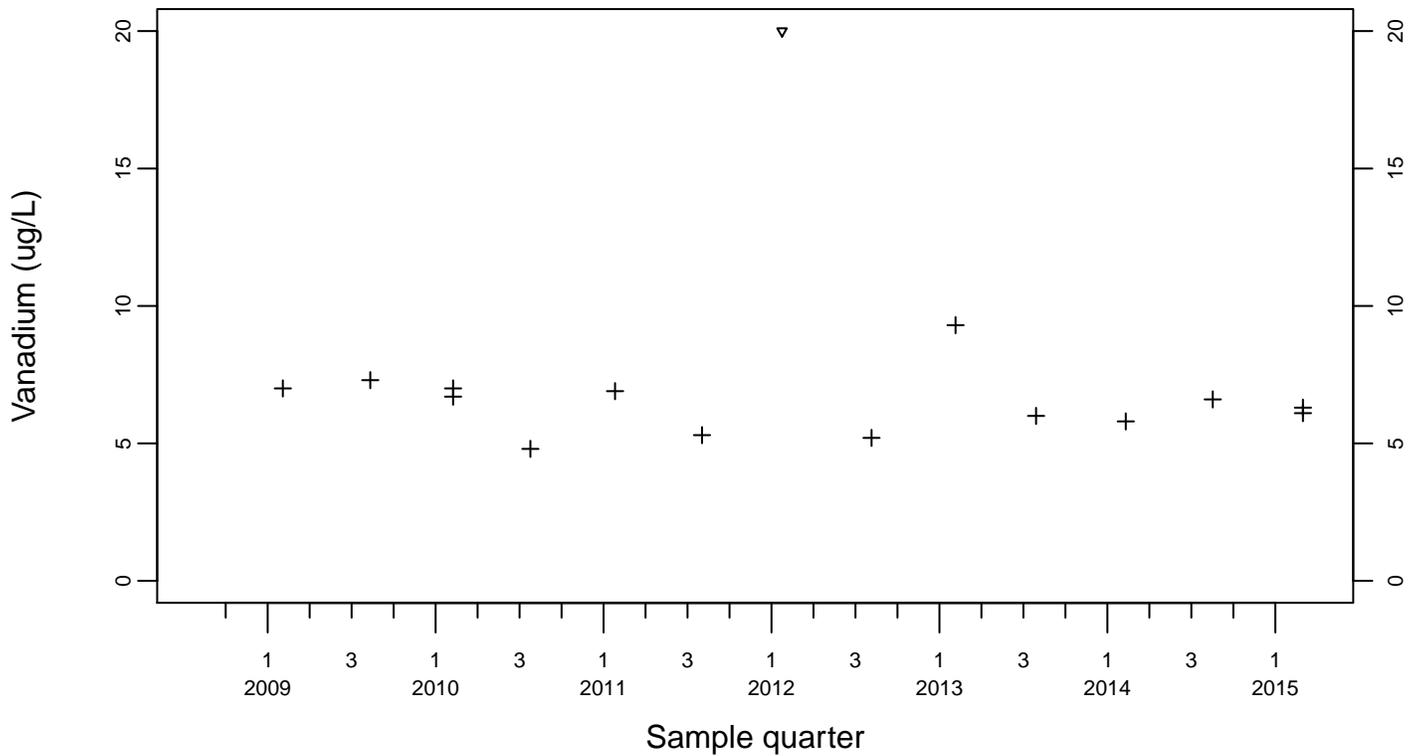
Sewage Ponds Ground Water Vanadium (ug/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
+ Estimated



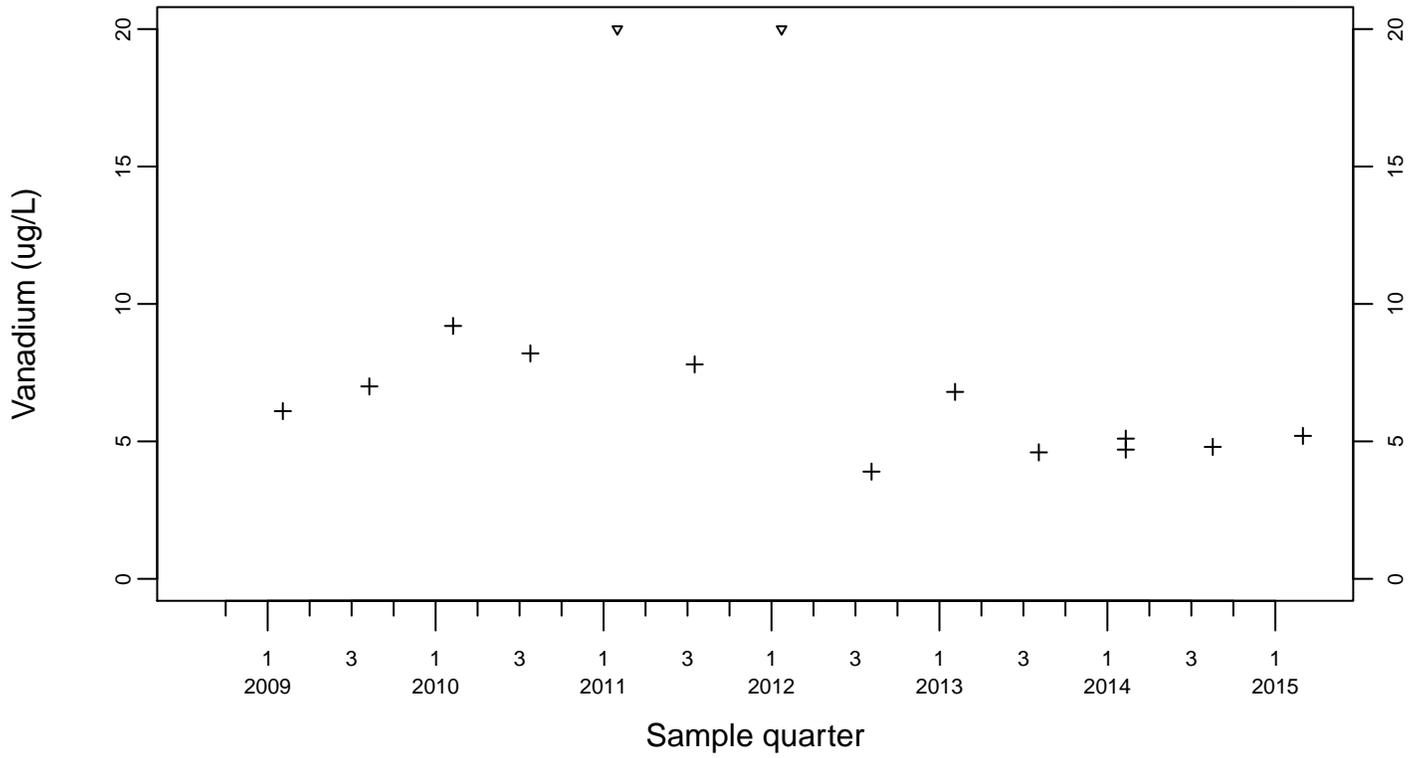
Downgradient Monitor Well W-26R-01



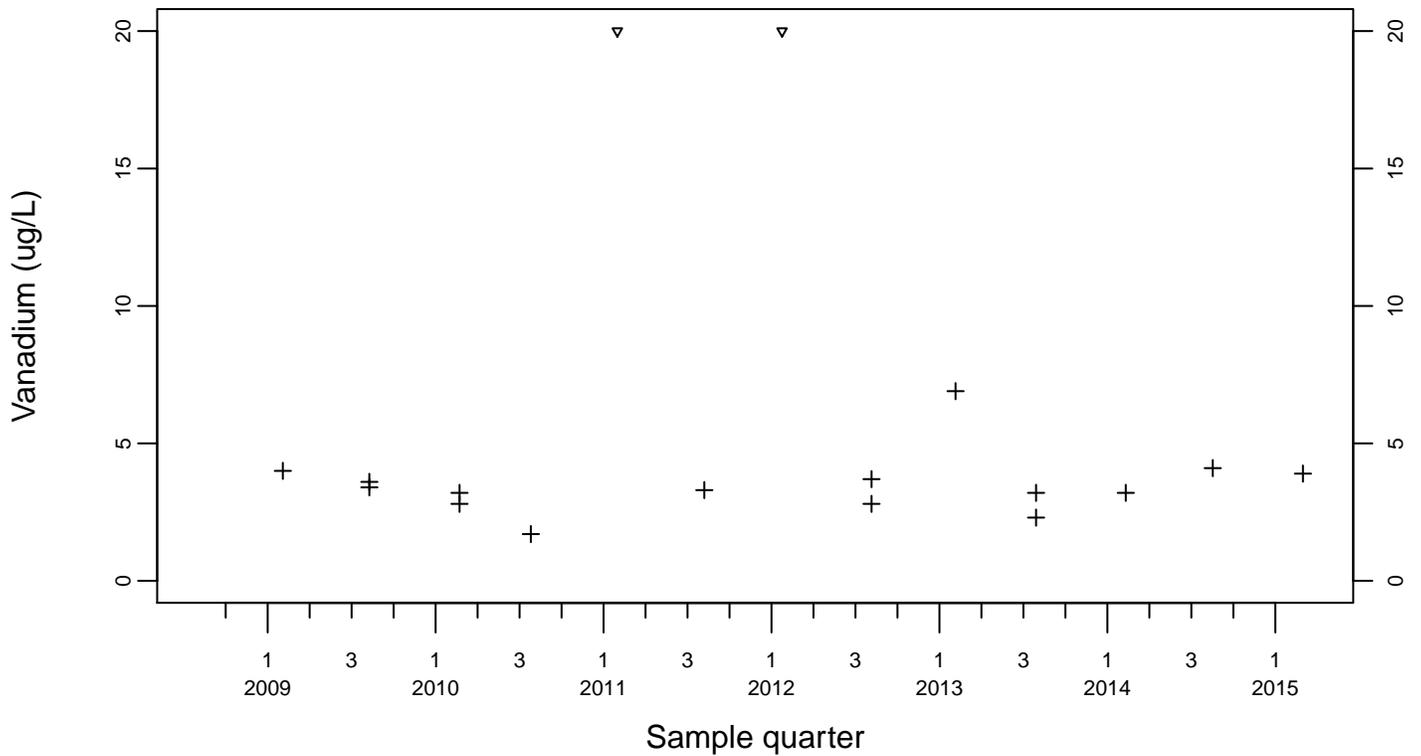
Sewage Ponds Ground Water Vanadium (ug/L)

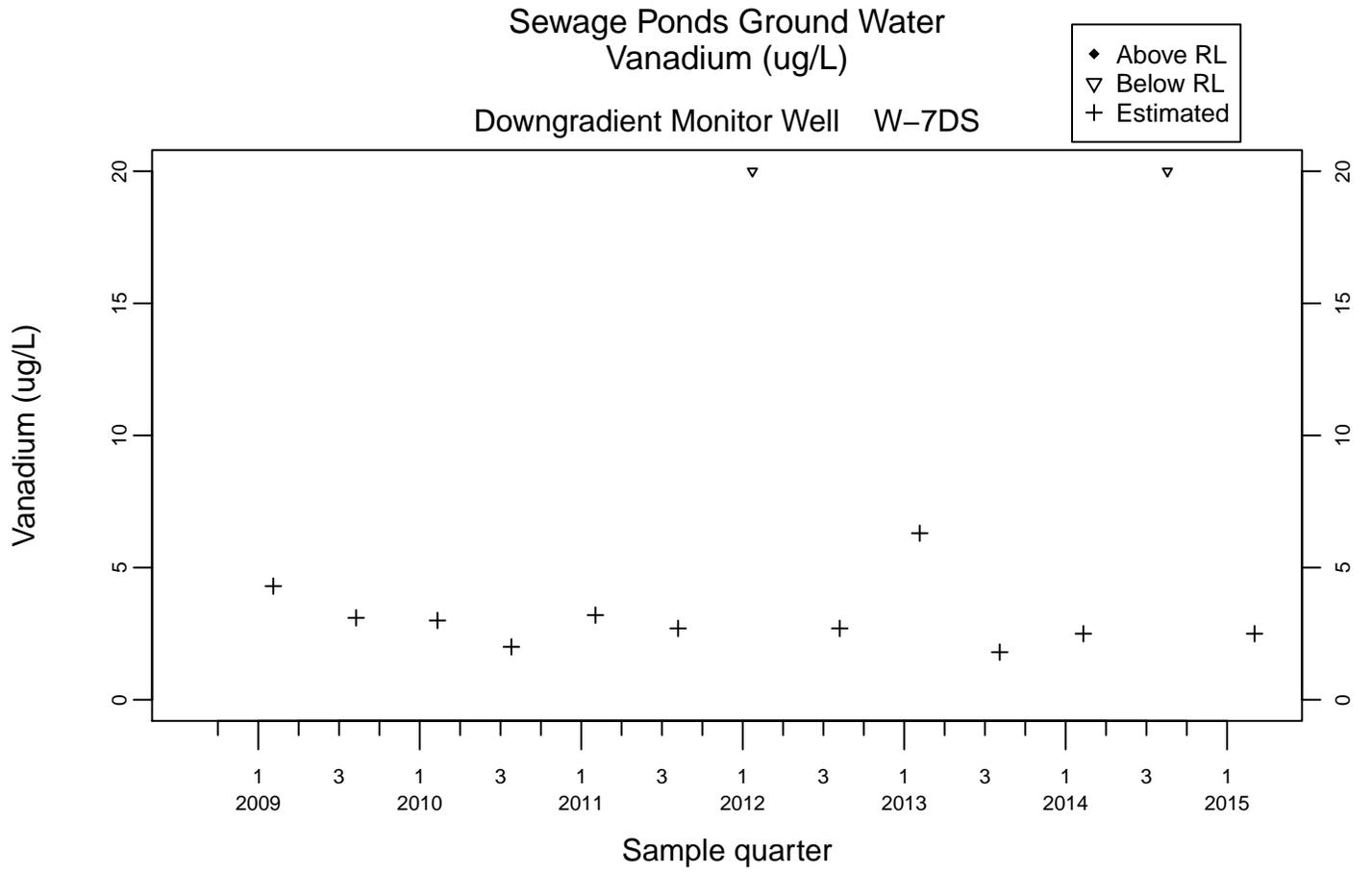
Downgradient Monitor Well W-26R-05

- ◆ Above RL
- ▽ Below RL
- + Estimated



Downgradient Monitor Well W-26R-11

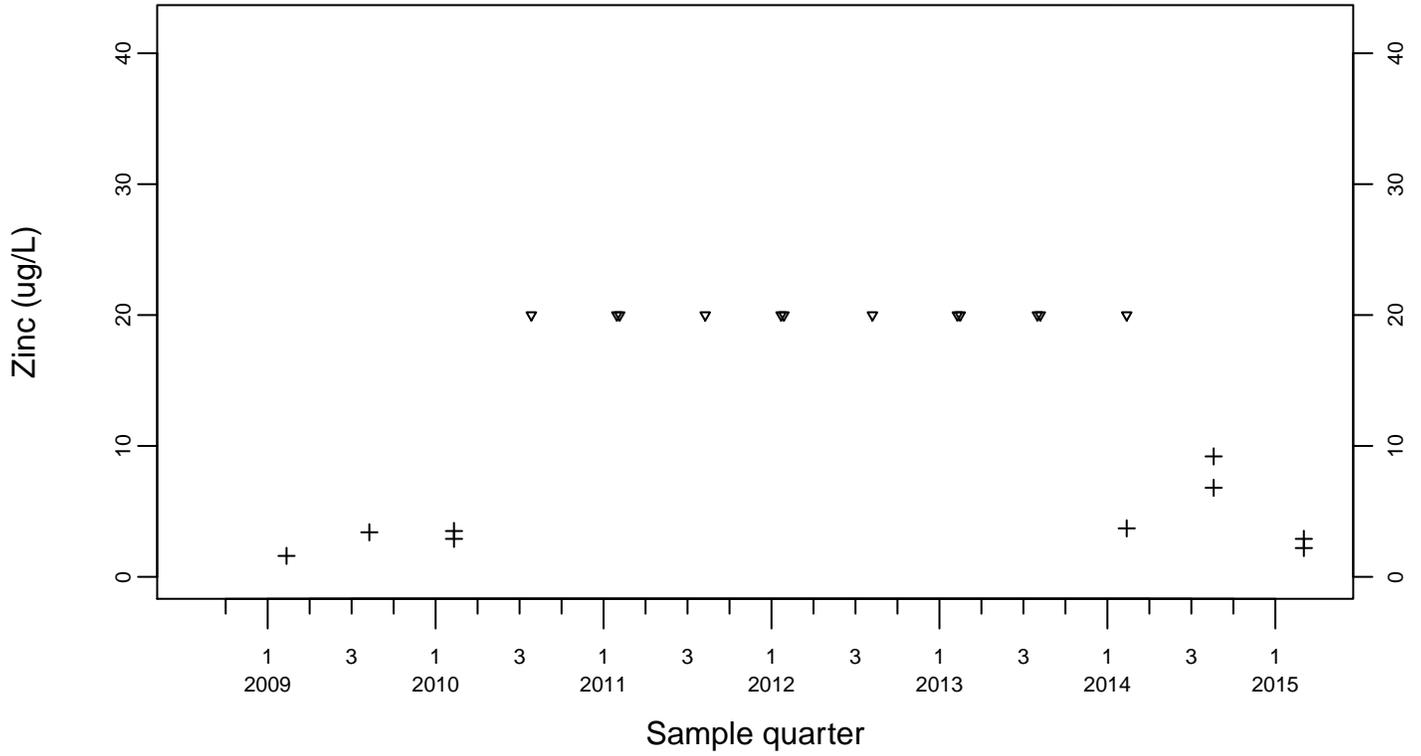




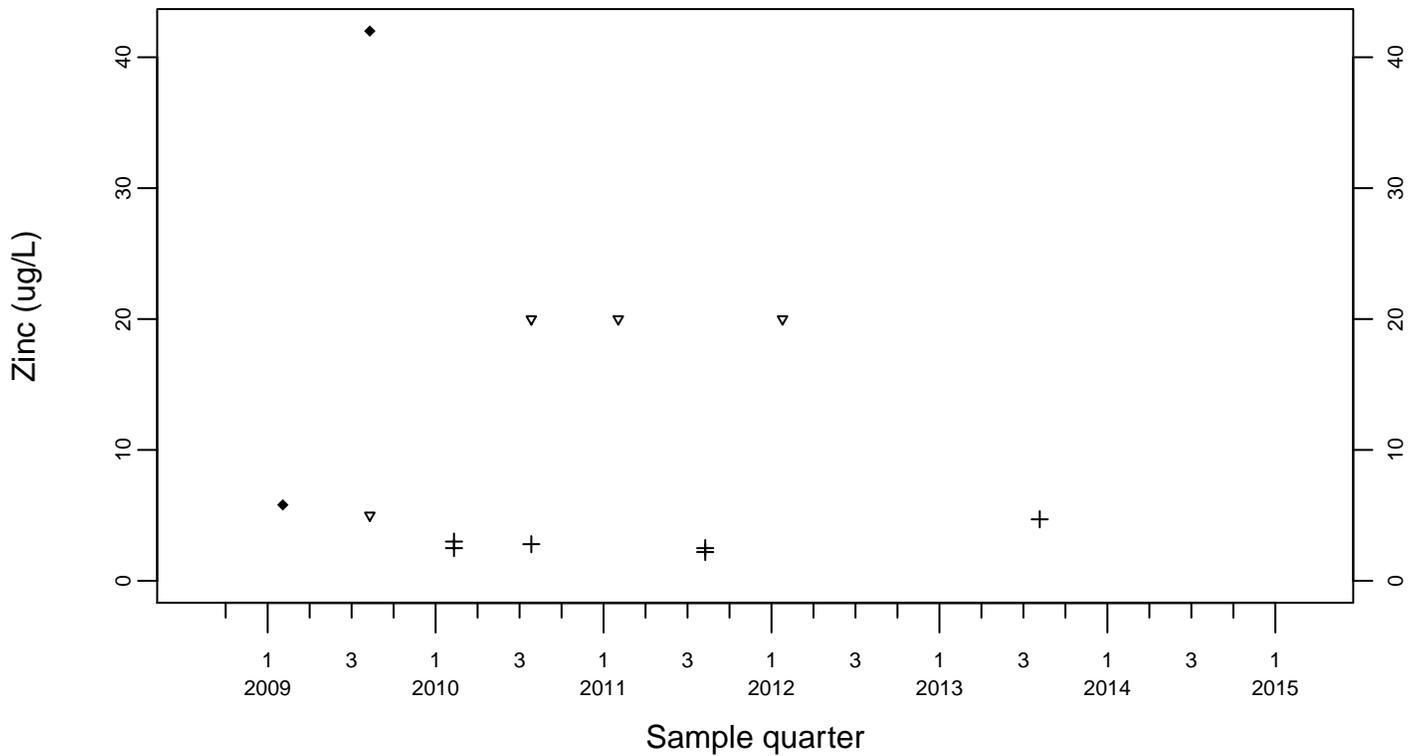
Sewage Ponds Ground Water Zinc (ug/L)

Upgradient Monitor Well W-7ES

- ◆ Above RL
- ▽ Below RL
- + Estimated



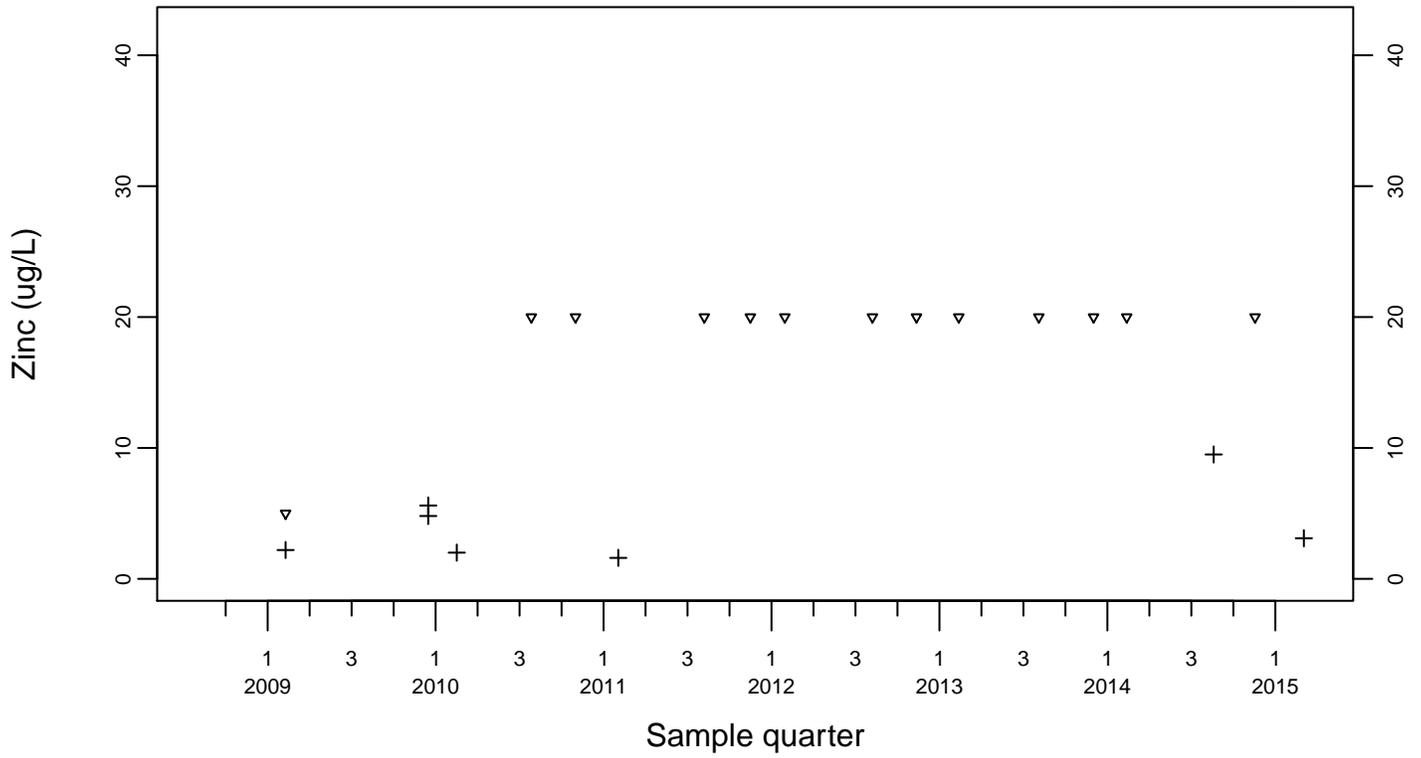
Upgradient Monitor Well W-7PS



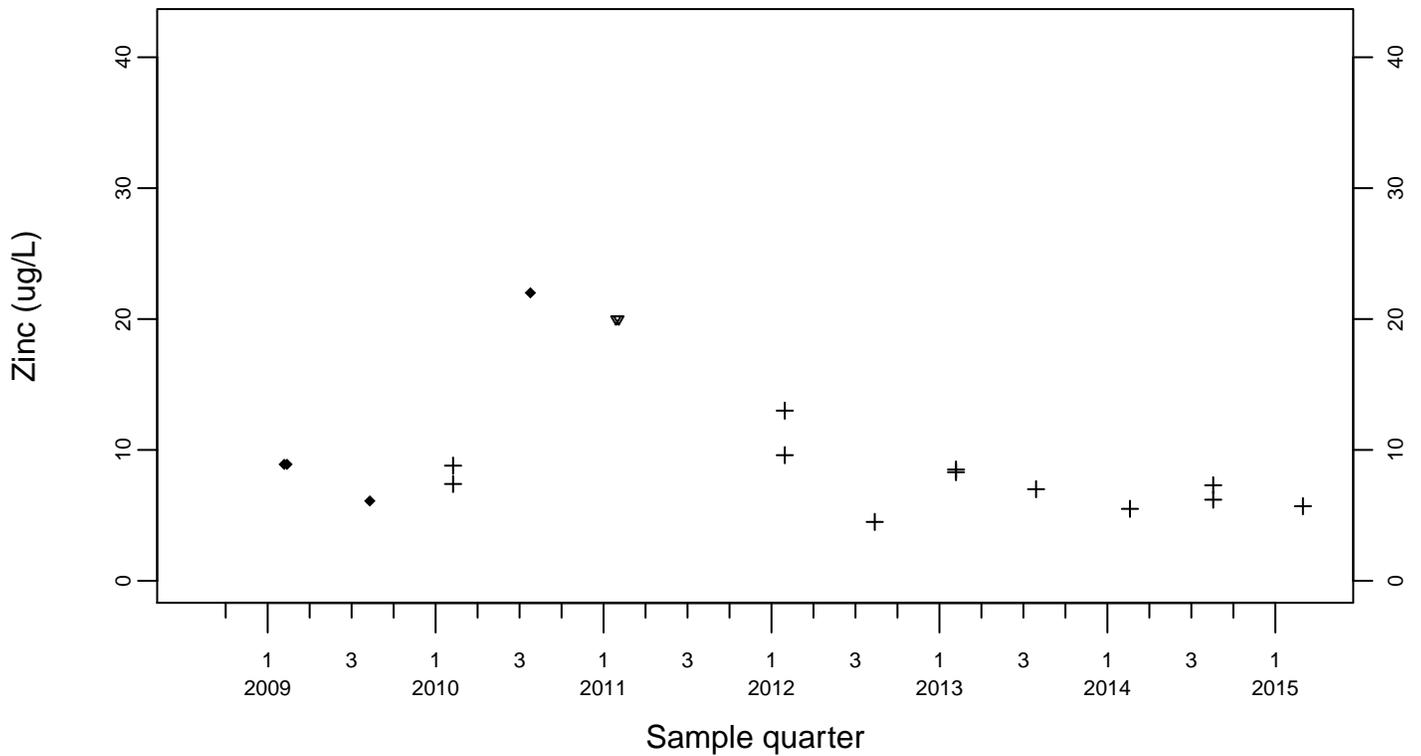
Sewage Ponds Ground Water Zinc (ug/L)

Crossgradient Monitor Well W-35A-04

- ◆ Above RL
- ▽ Below RL
- + Estimated



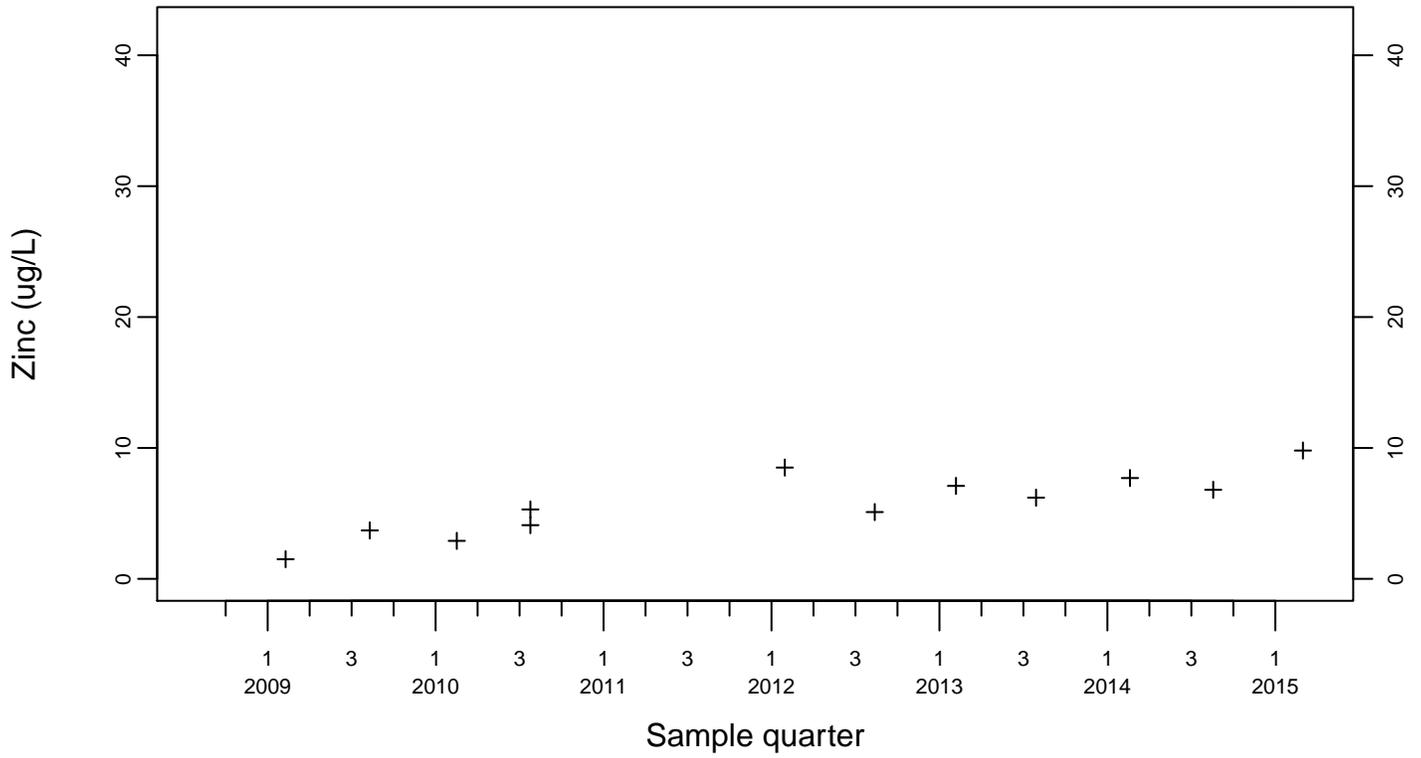
Downgradient Monitor Well W-25N-23



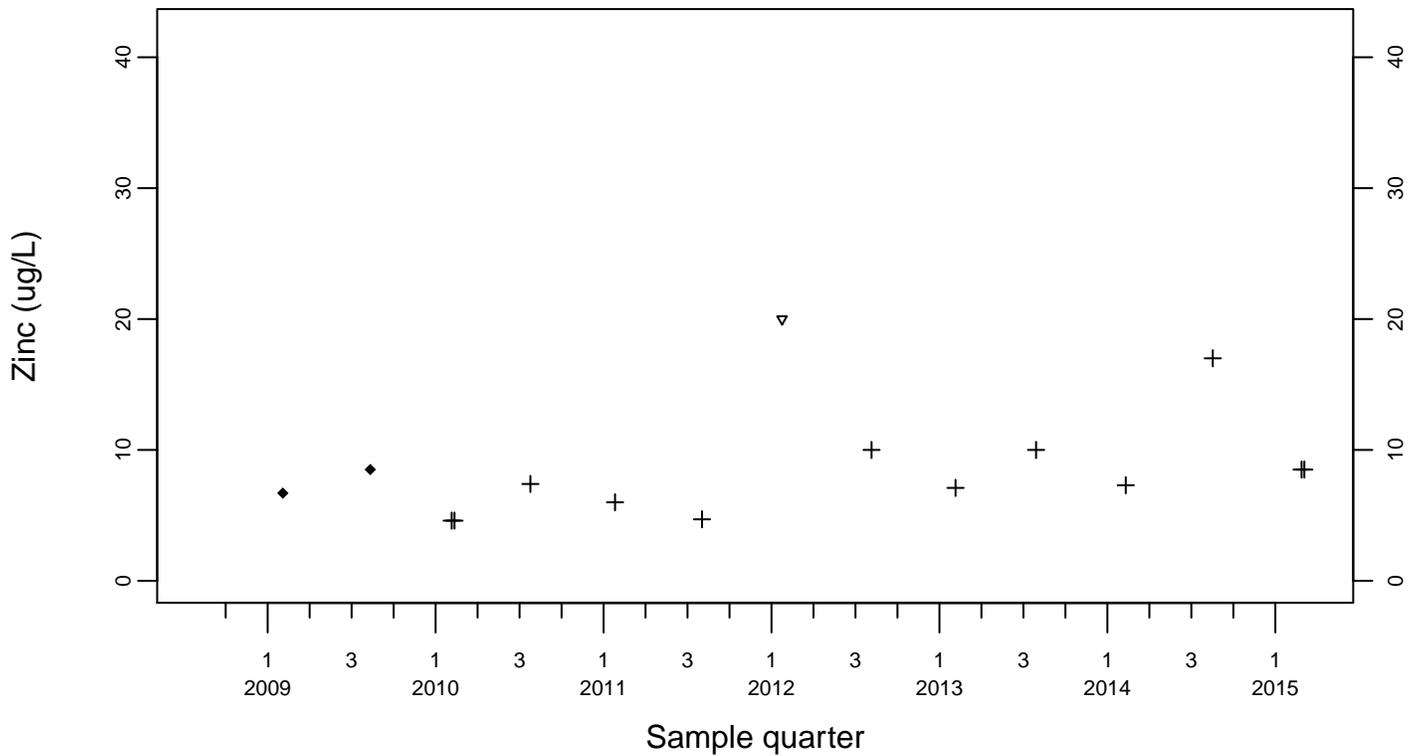
Sewage Ponds Ground Water Zinc (ug/L)

Downgradient Monitor Well W-25N-22

- ◆ Above RL
- ▽ Below RL
- + Estimated



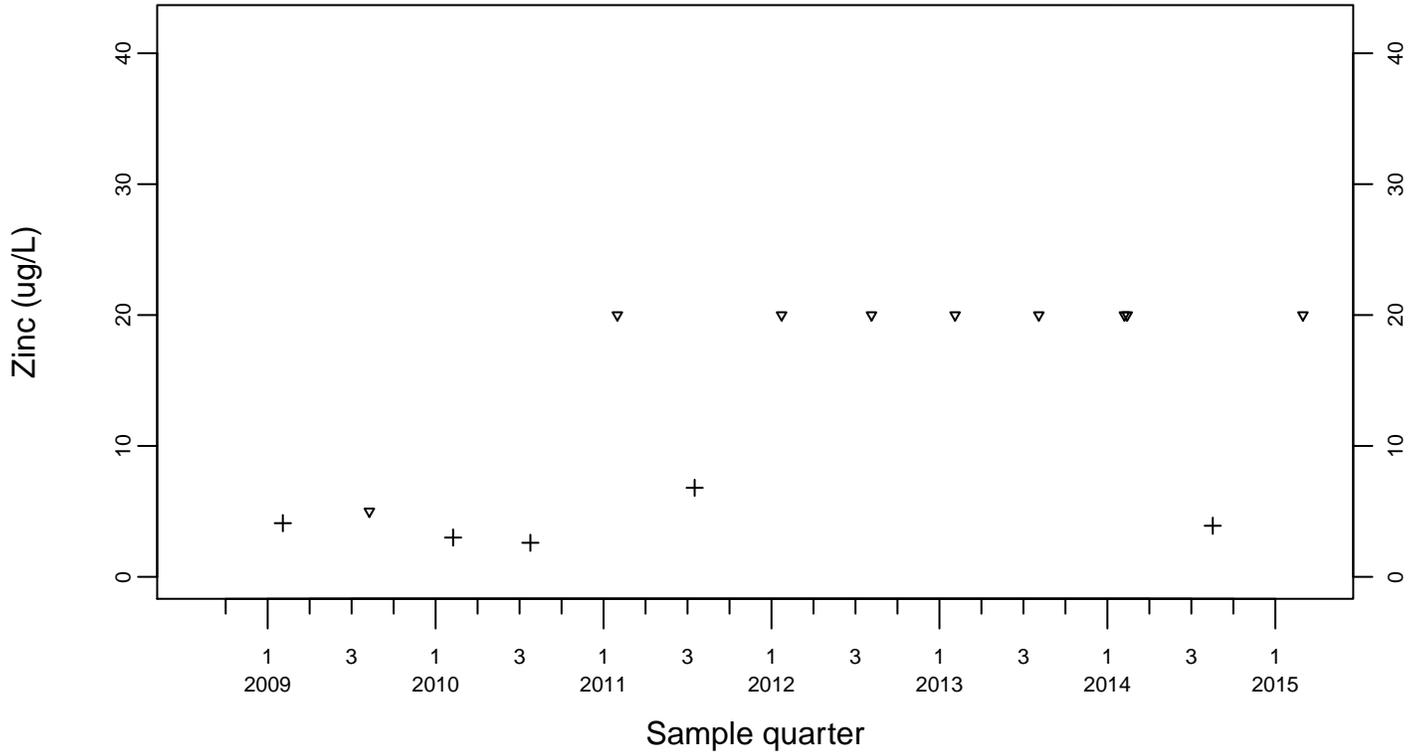
Downgradient Monitor Well W-26R-01



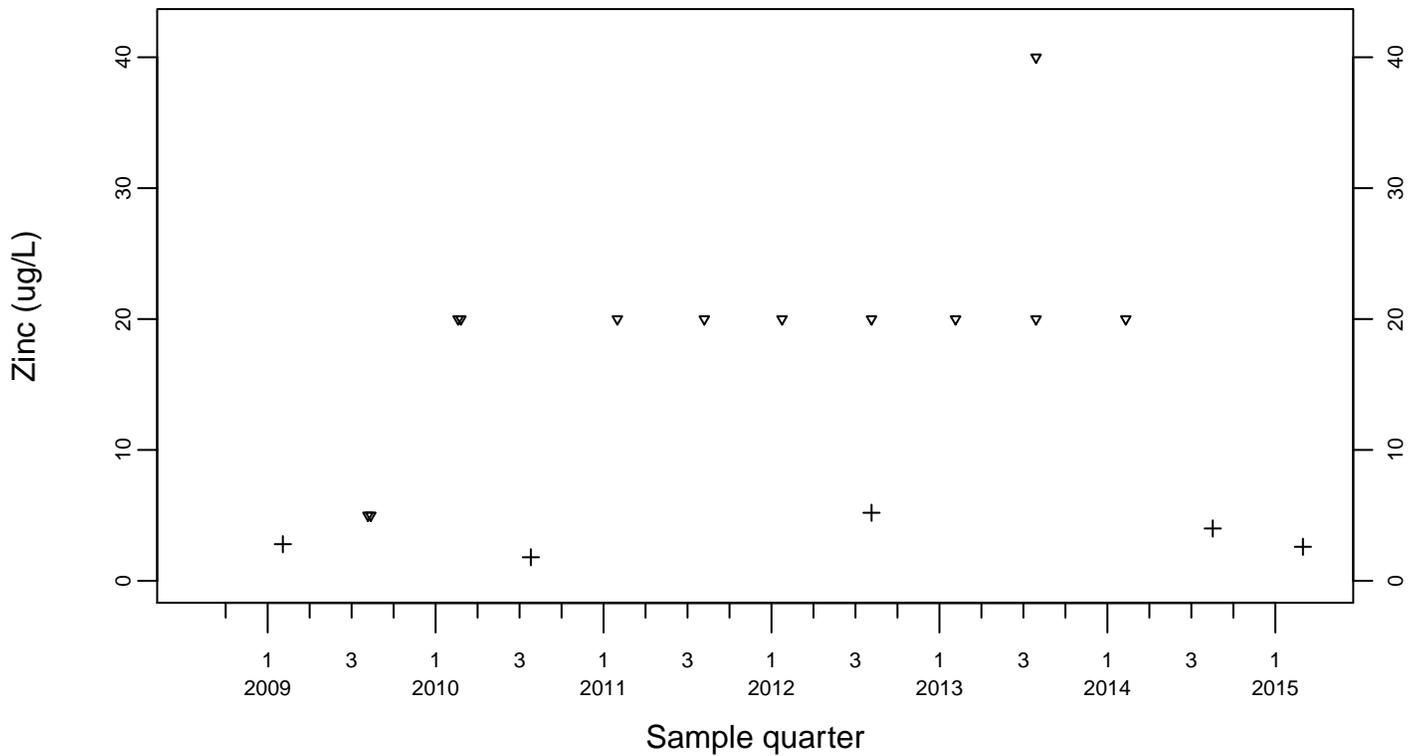
Sewage Ponds Ground Water Zinc (ug/L)

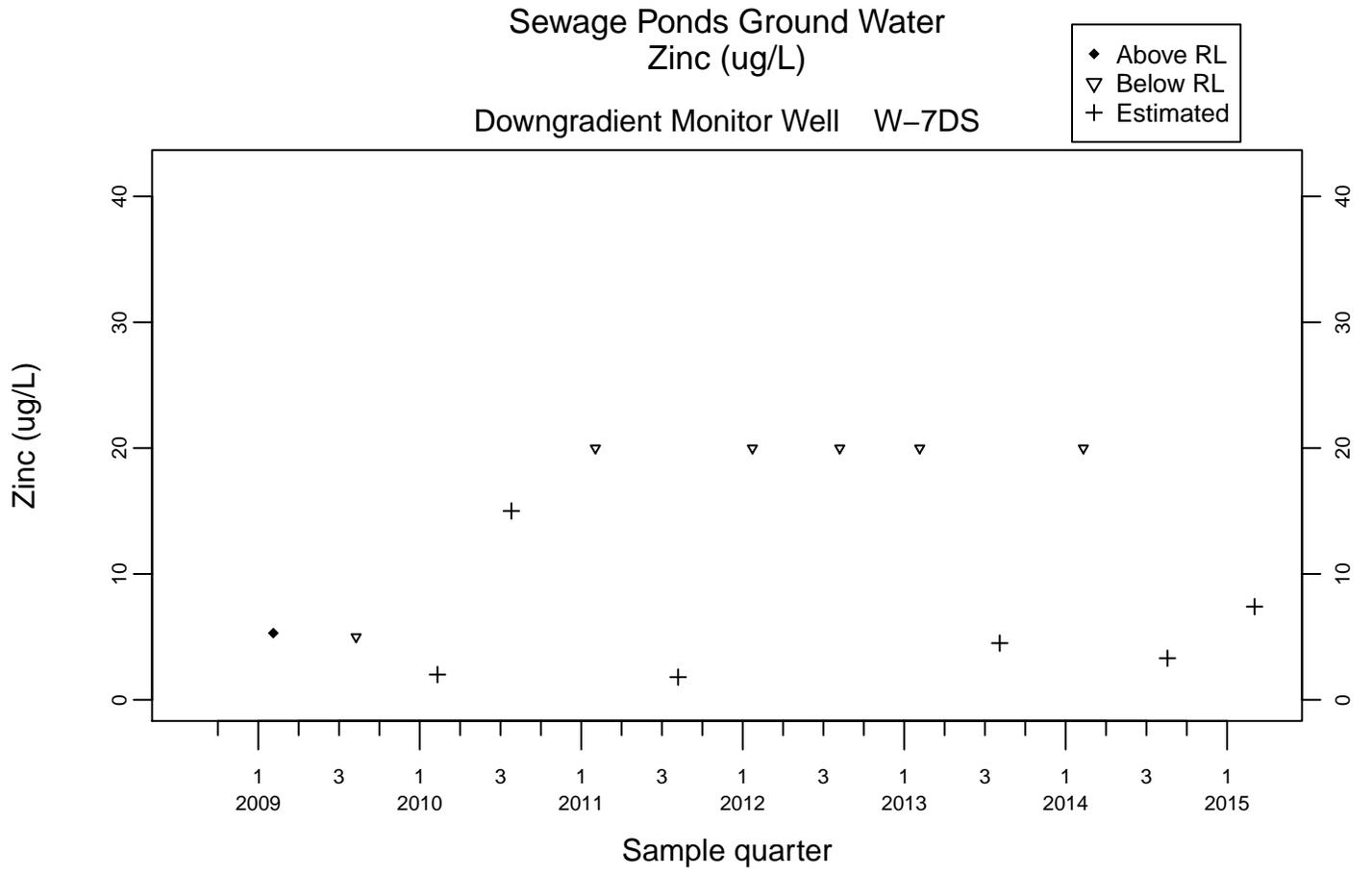
Downgradient Monitor Well W-26R-05

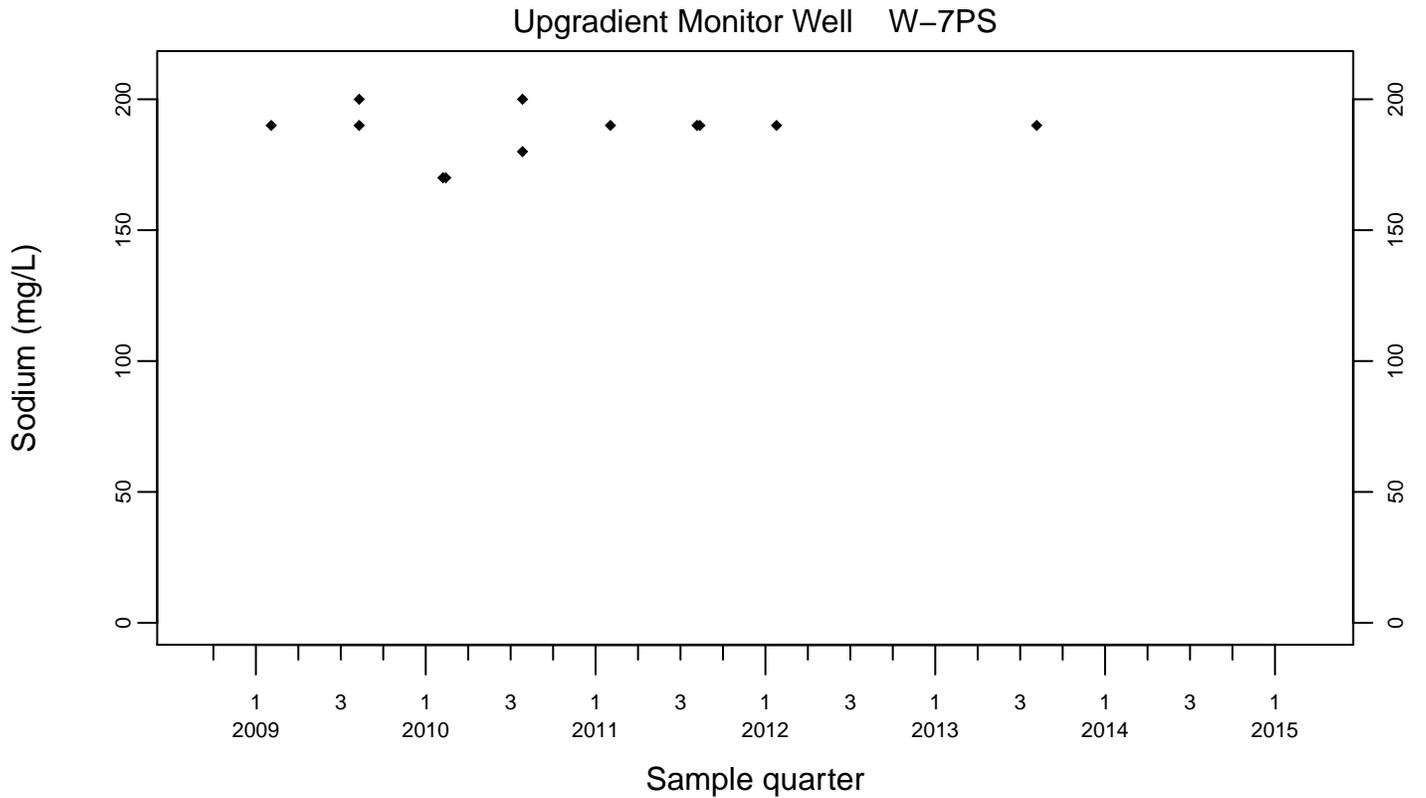
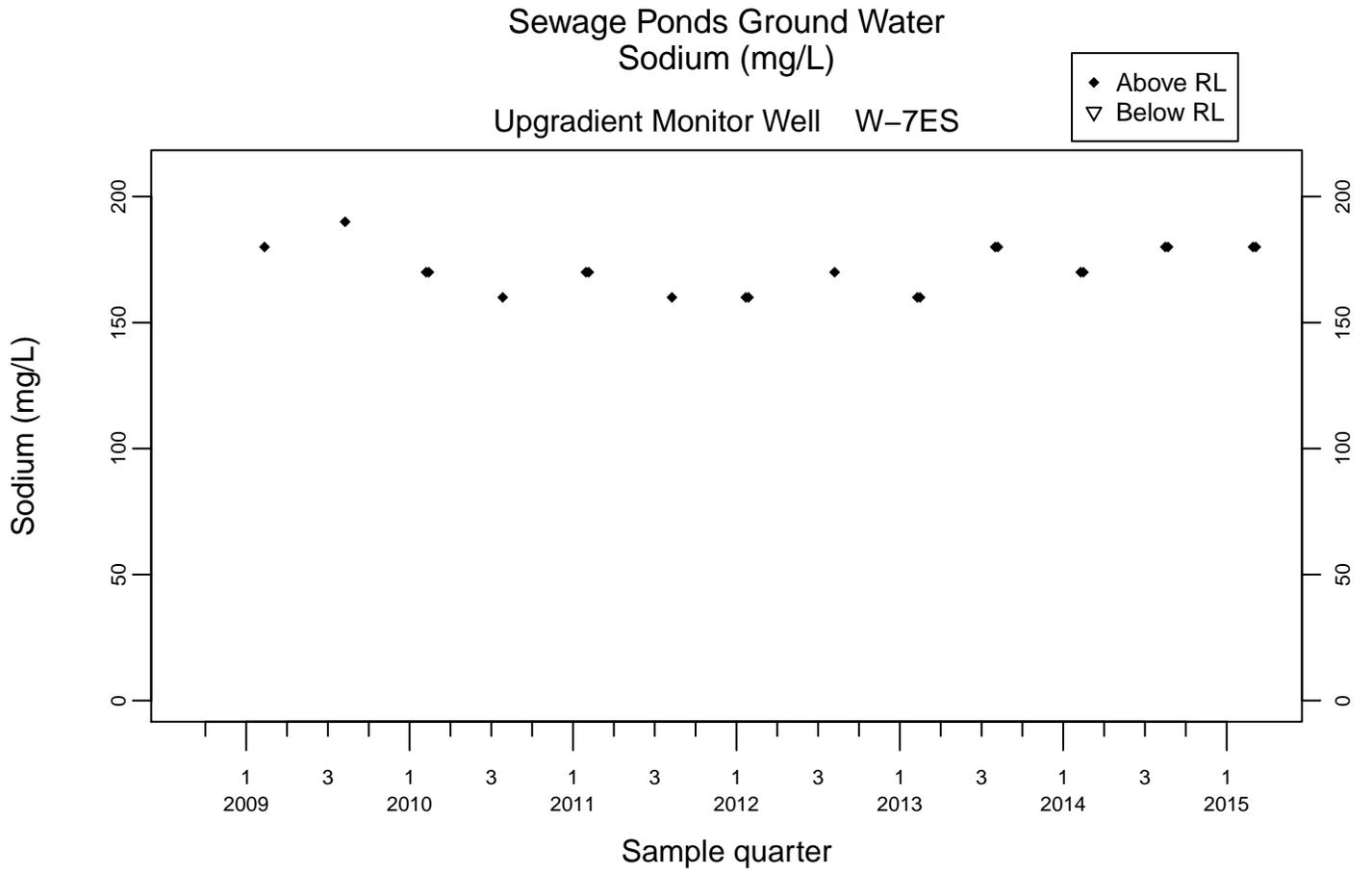
- ◆ Above RL
- ▽ Below RL
- + Estimated



Downgradient Monitor Well W-26R-11



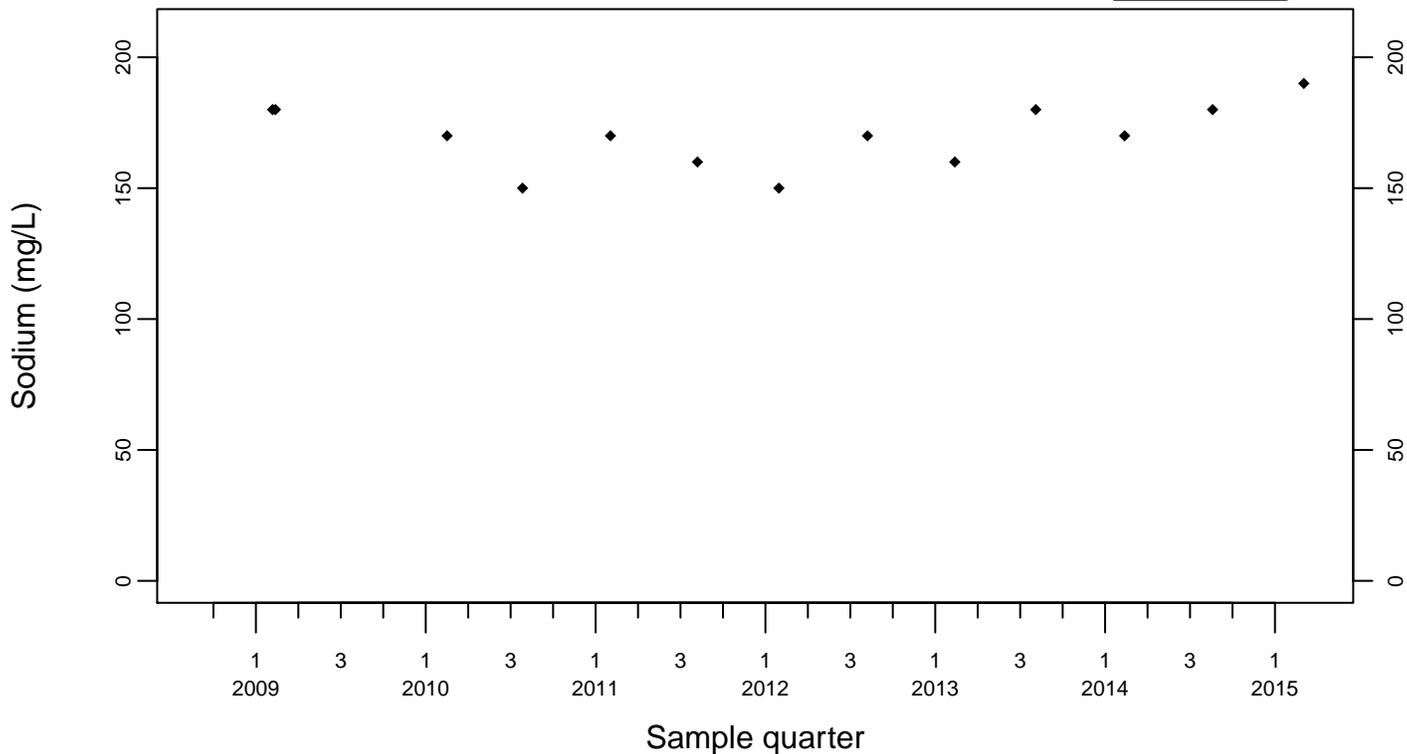




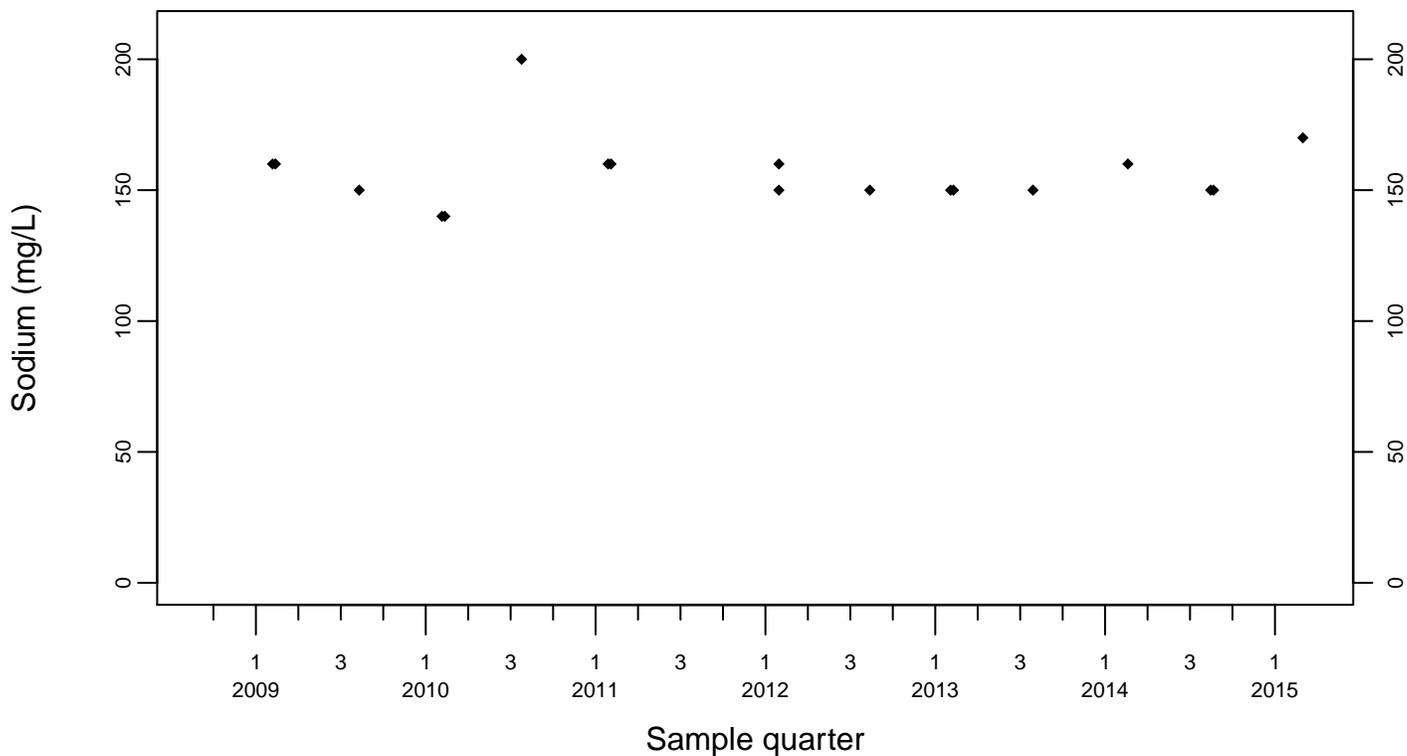
Sewage Ponds Ground Water Sodium (mg/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



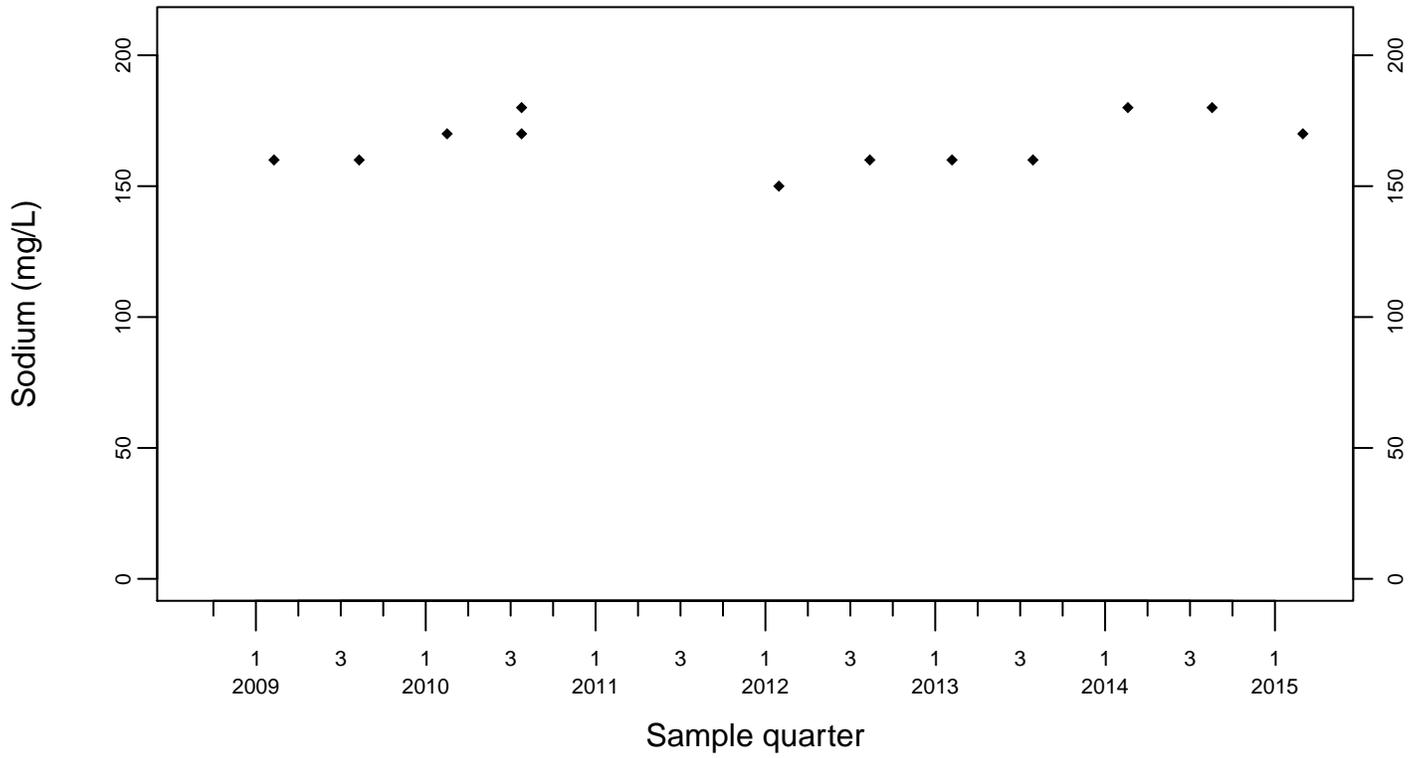
Downgradient Monitor Well W-25N-23



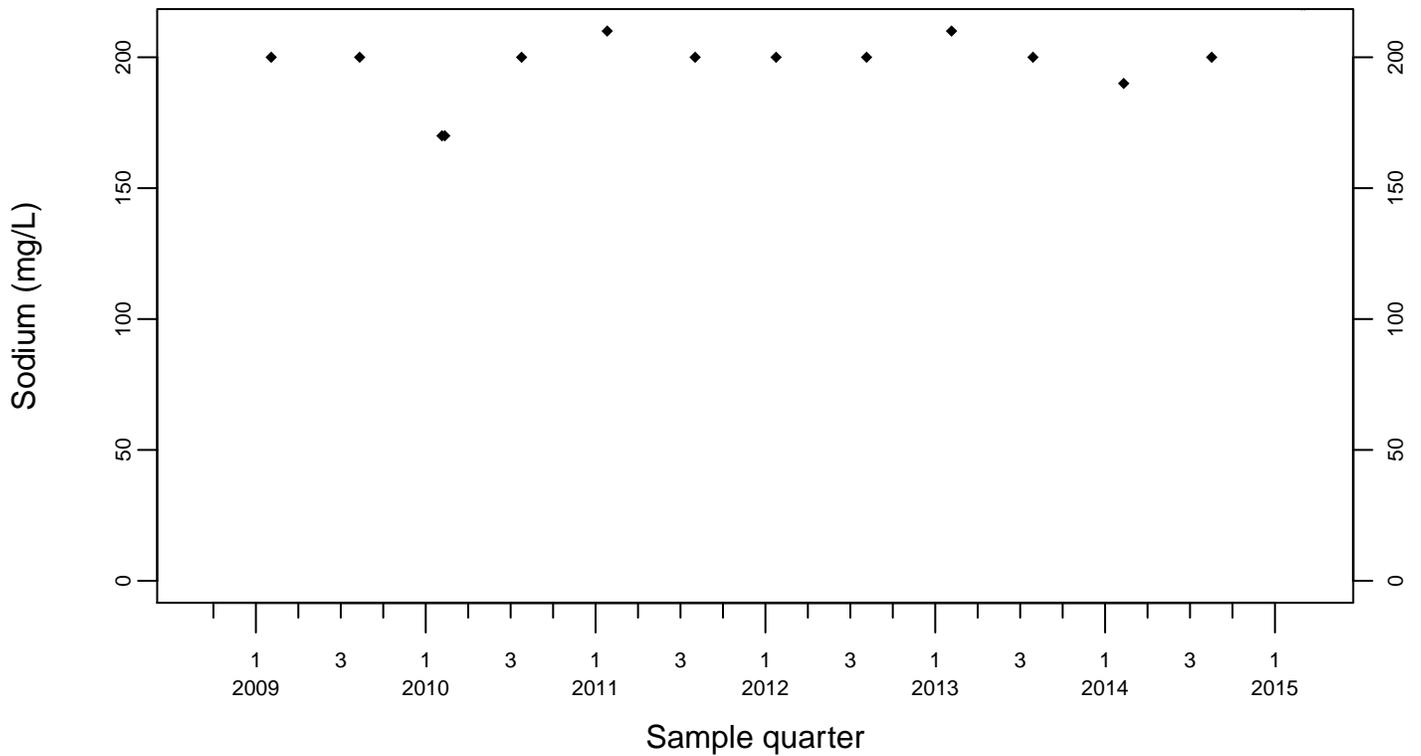
Sewage Ponds Ground Water Sodium (mg/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



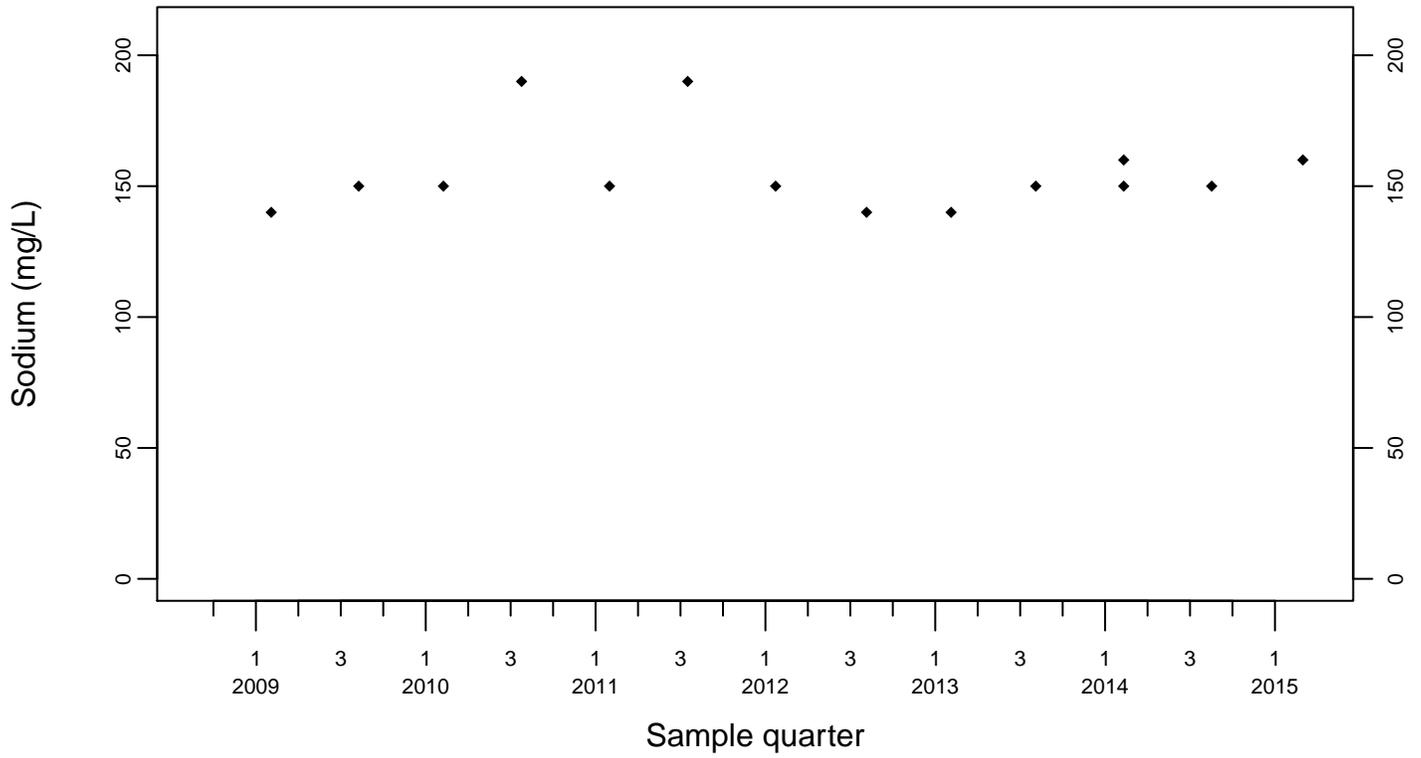
Downgradient Monitor Well W-26R-01



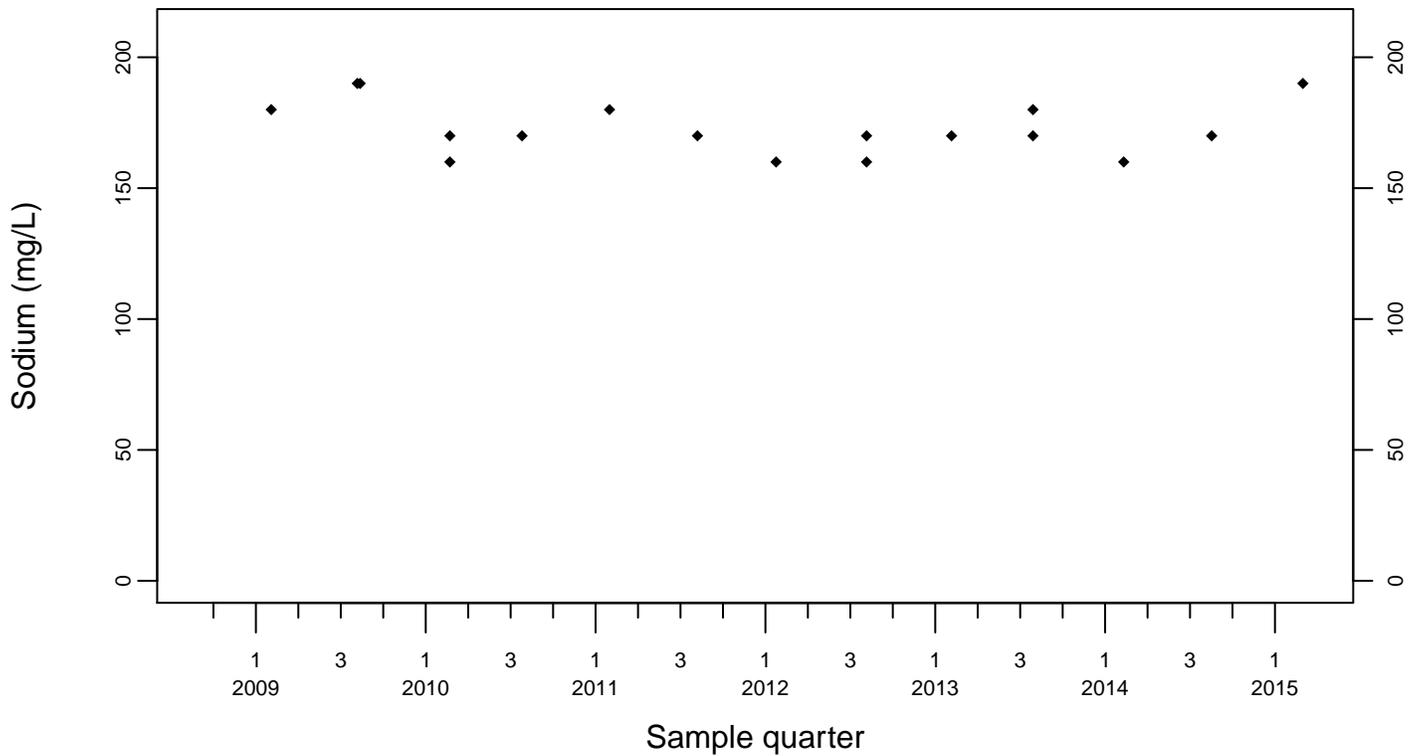
Sewage Ponds Ground Water Sodium (mg/L)

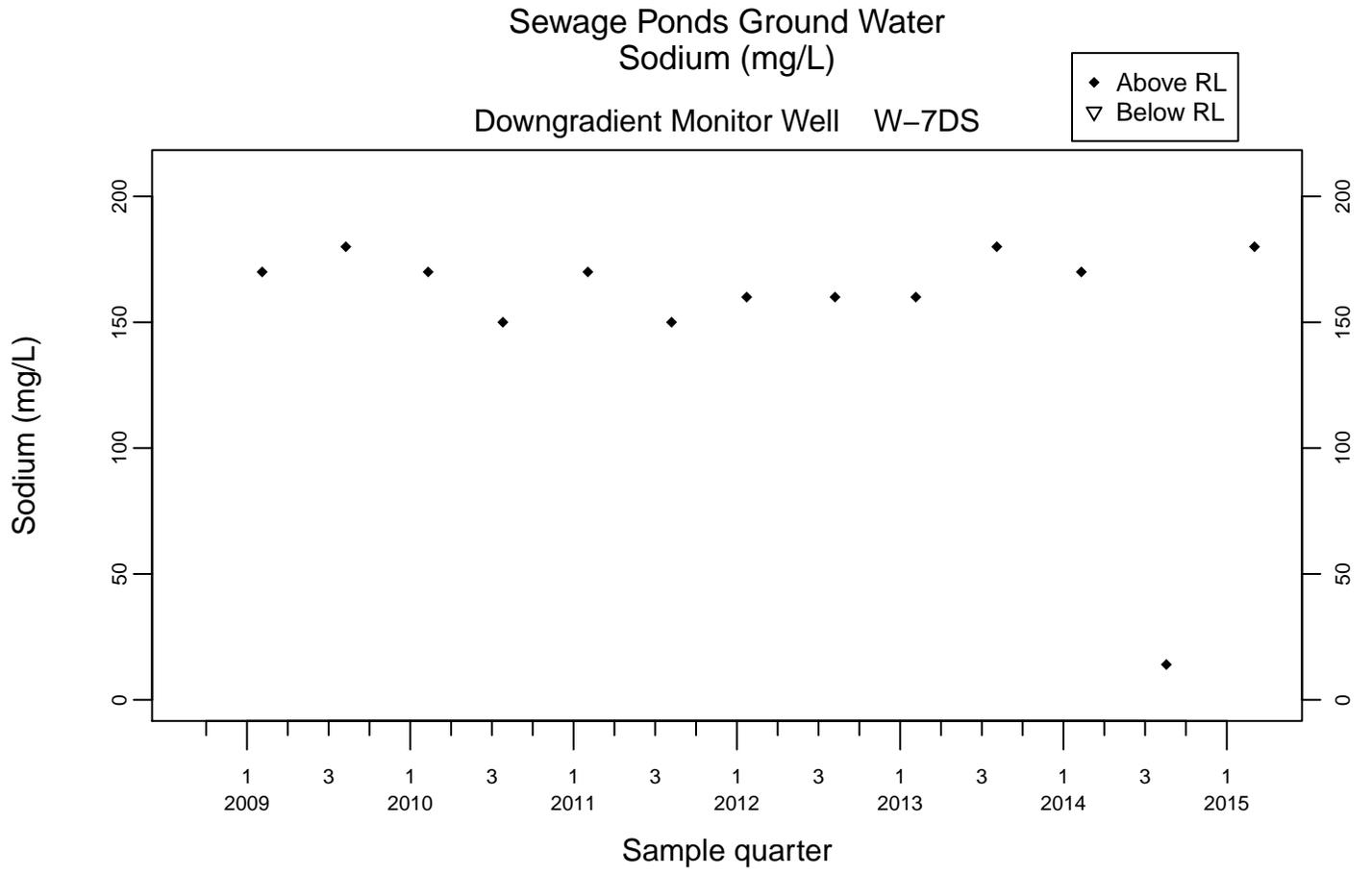
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

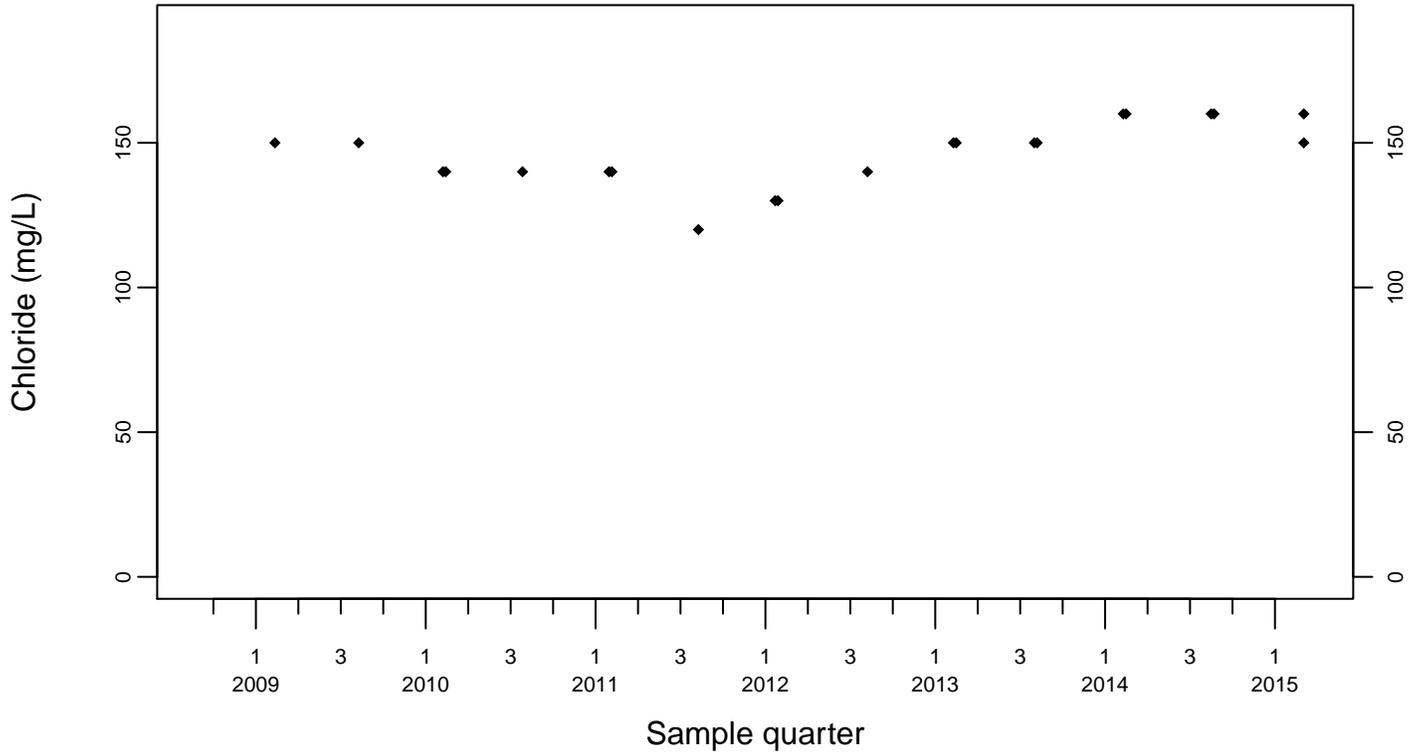




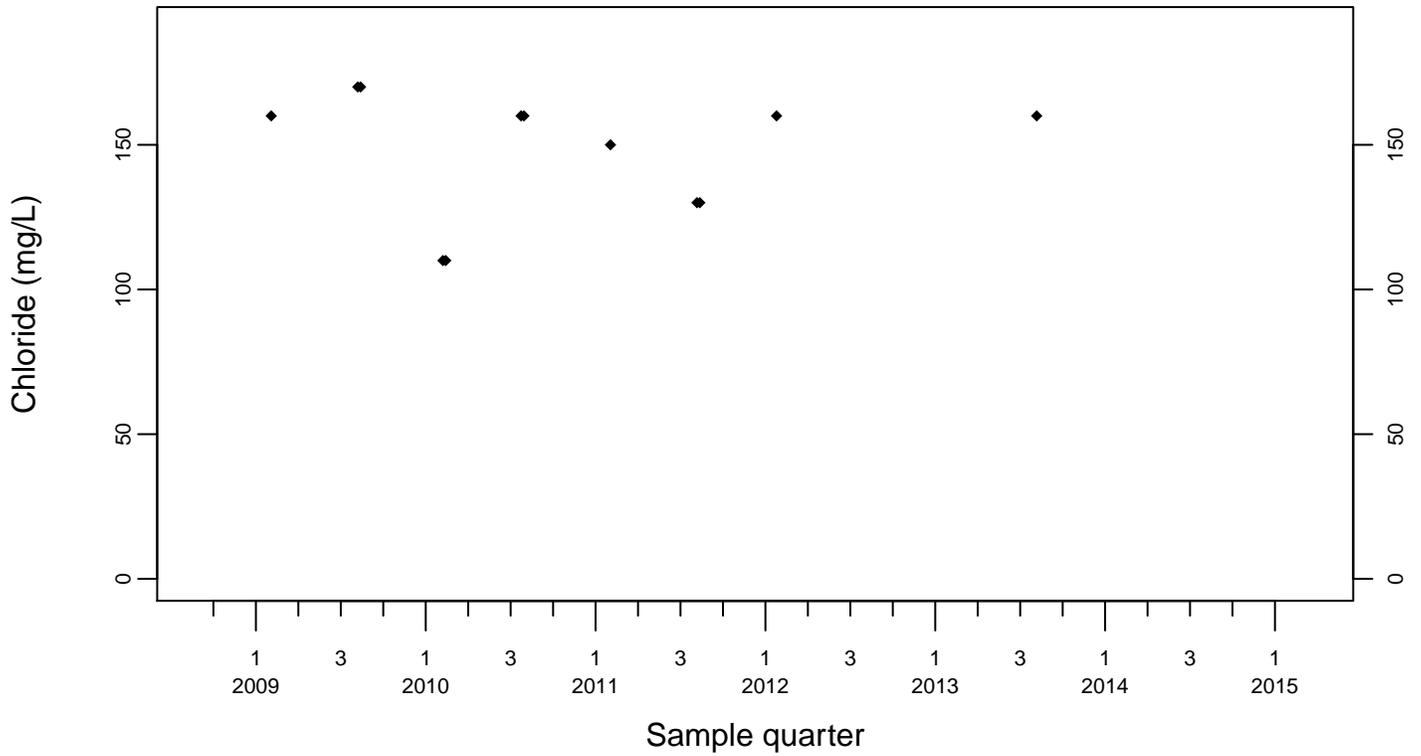
Sewage Ponds Ground Water Chloride (mg/L)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL



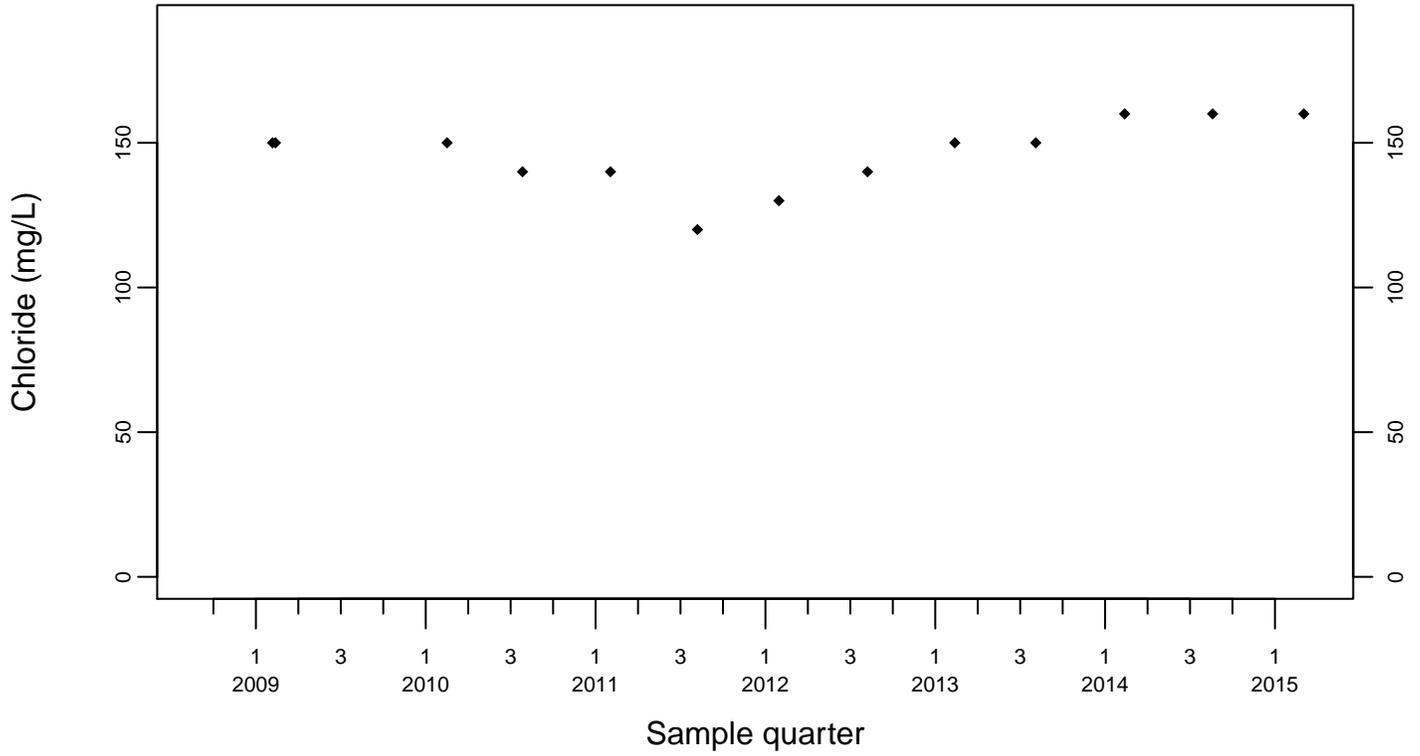
Upgradient Monitor Well W-7PS



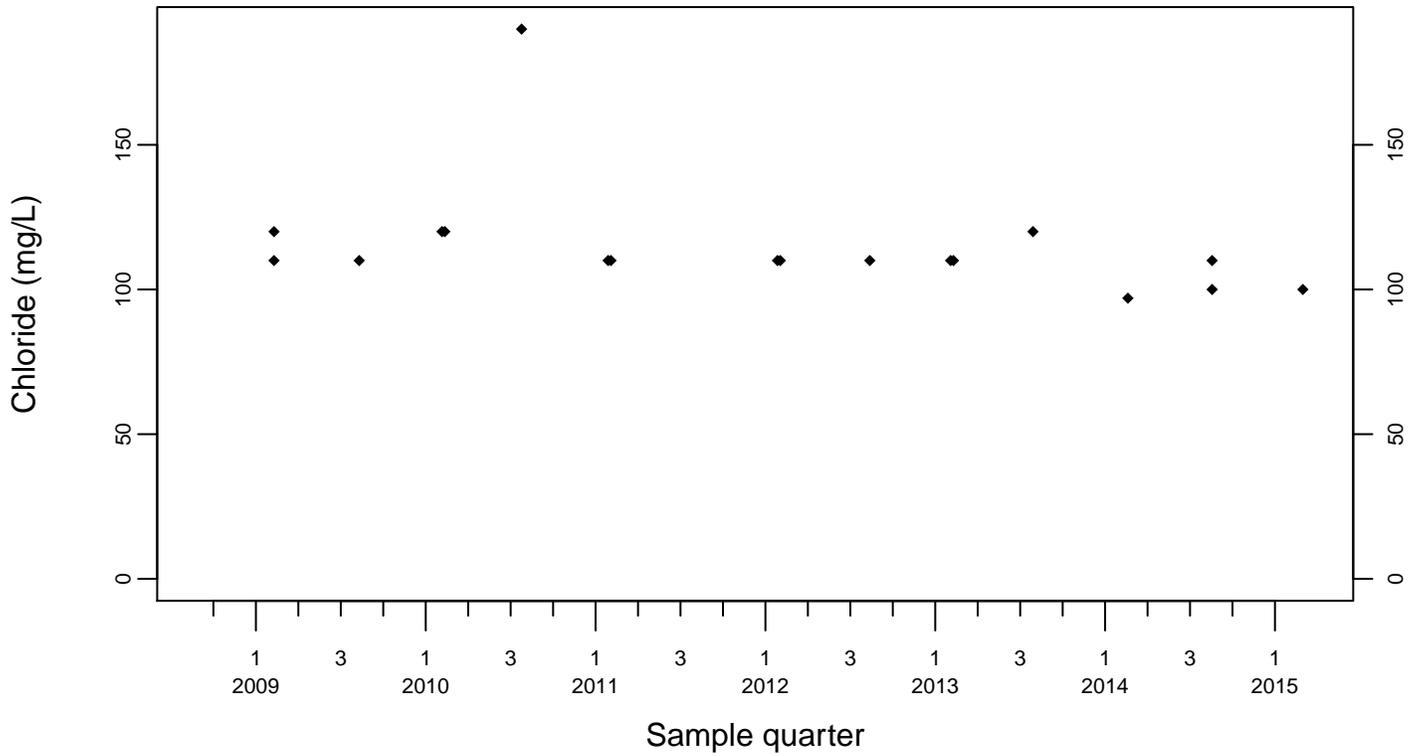
Sewage Ponds Ground Water Chloride (mg/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



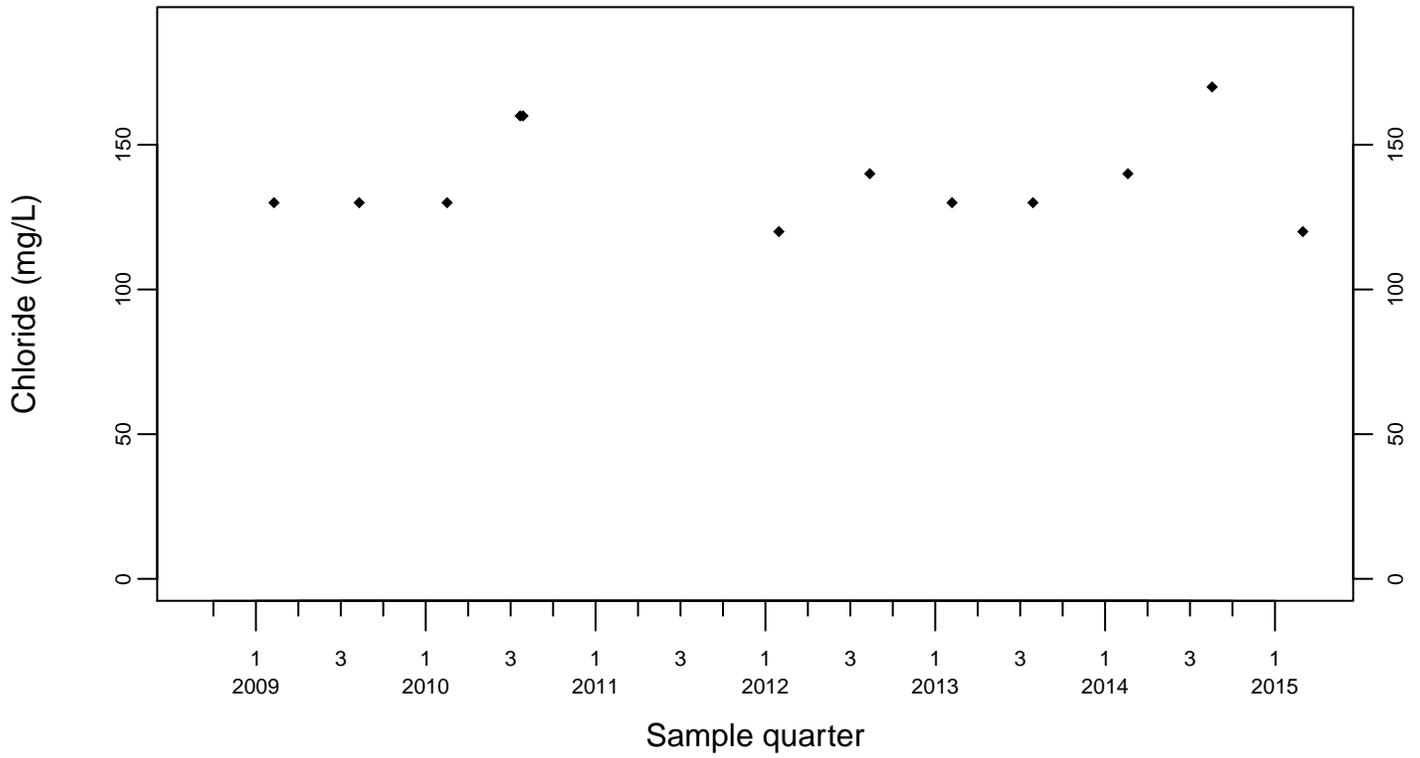
Downgradient Monitor Well W-25N-23



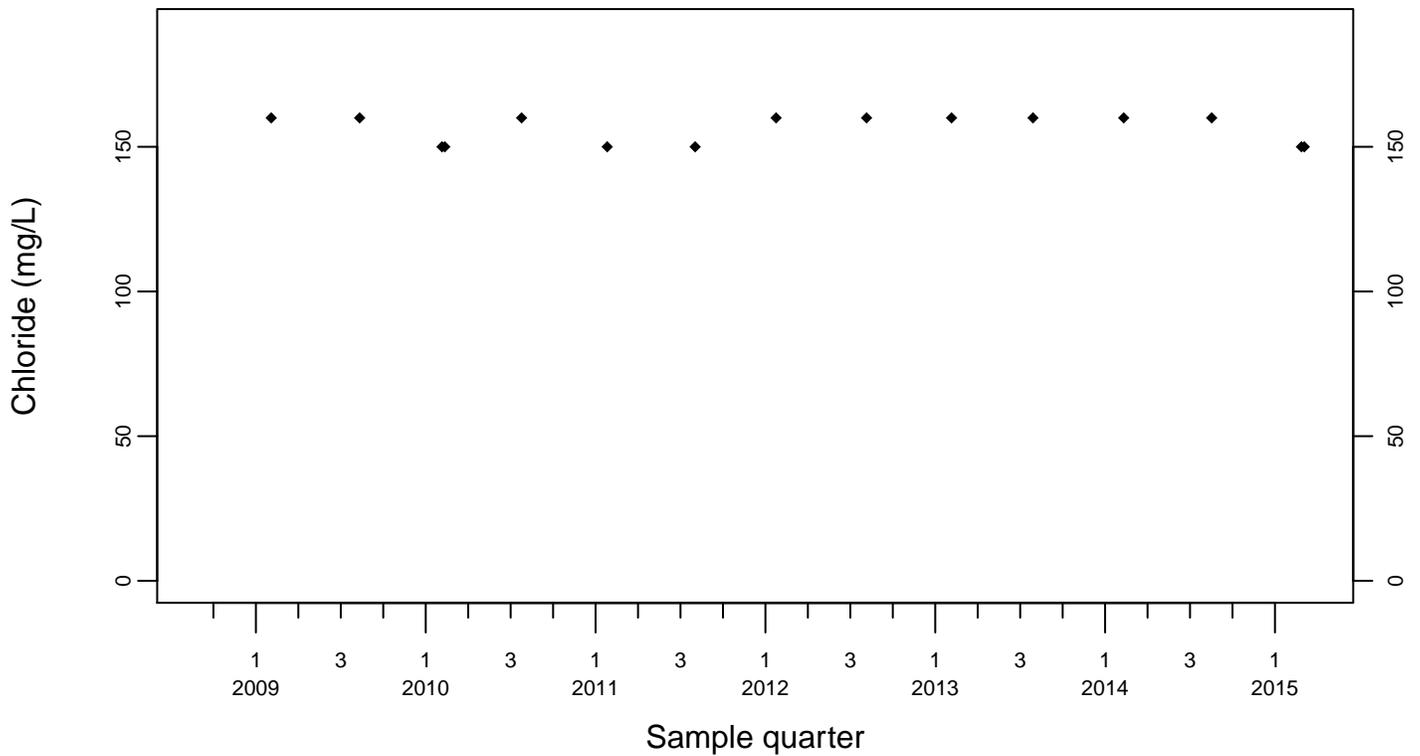
Sewage Ponds Ground Water Chloride (mg/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



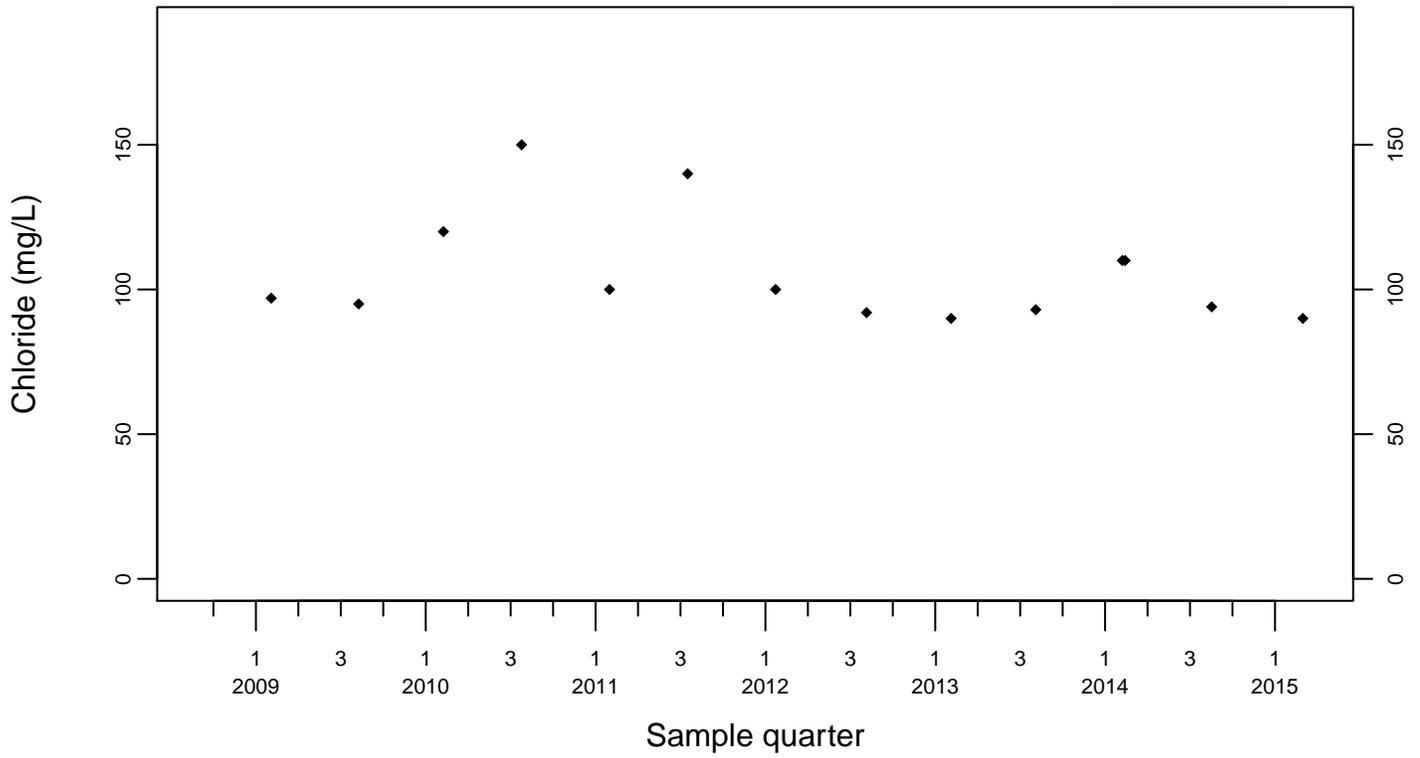
Downgradient Monitor Well W-26R-01



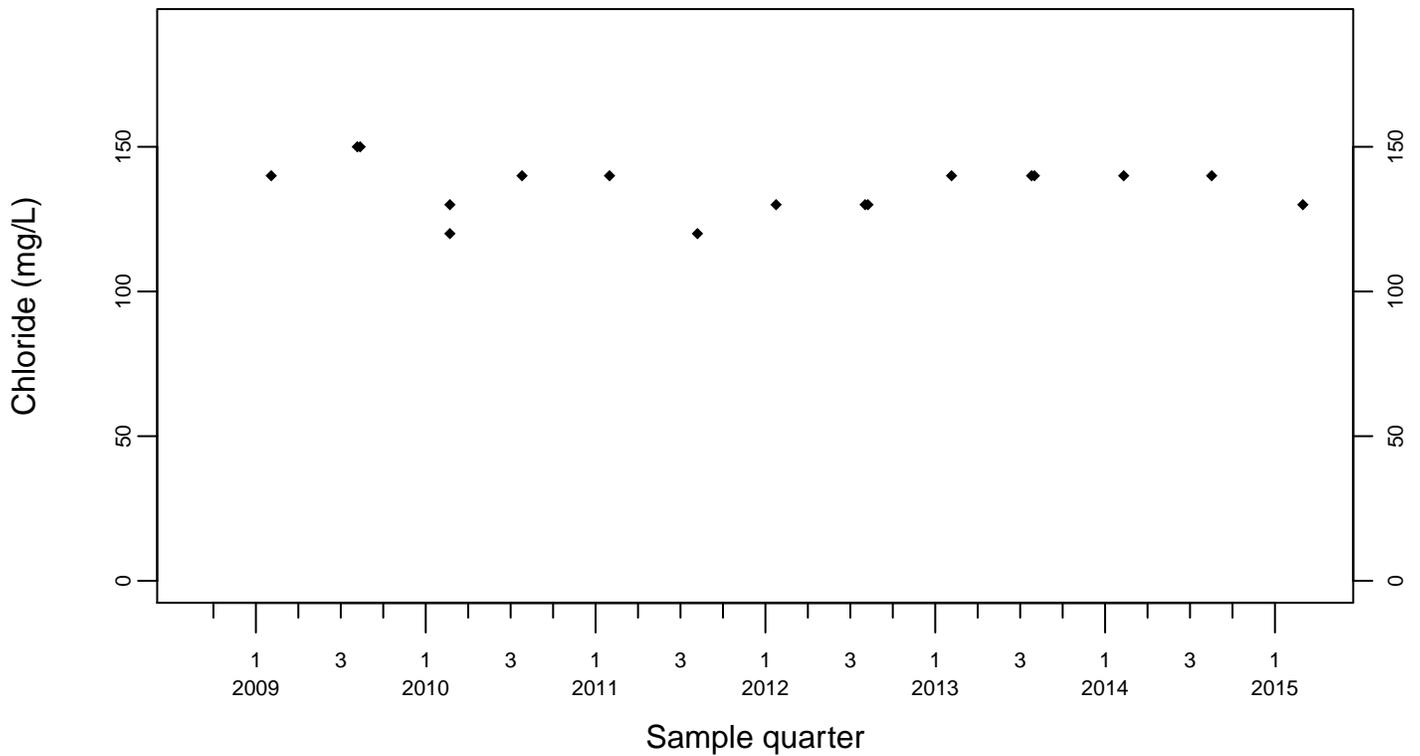
Sewage Ponds Ground Water Chloride (mg/L)

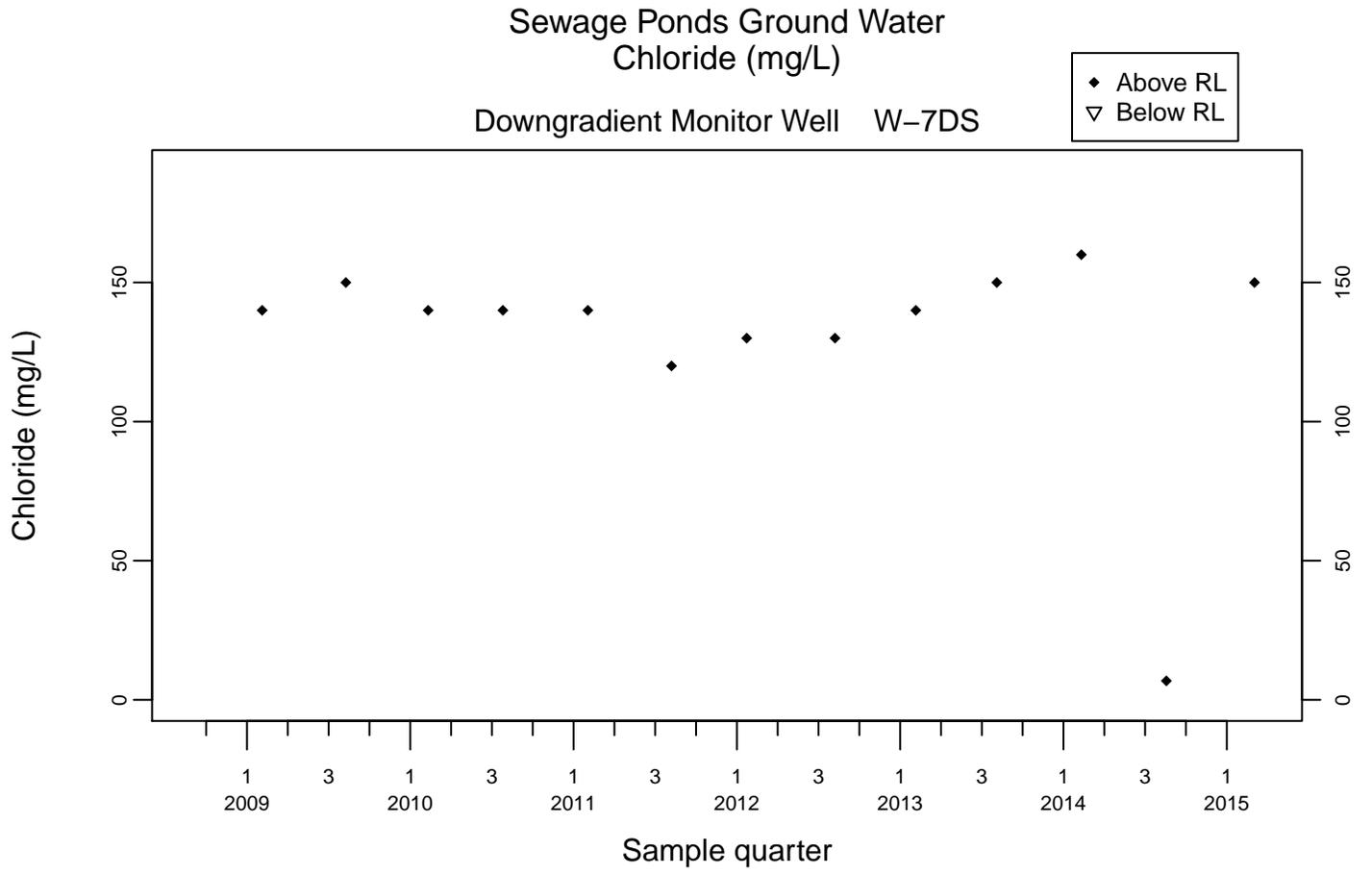
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

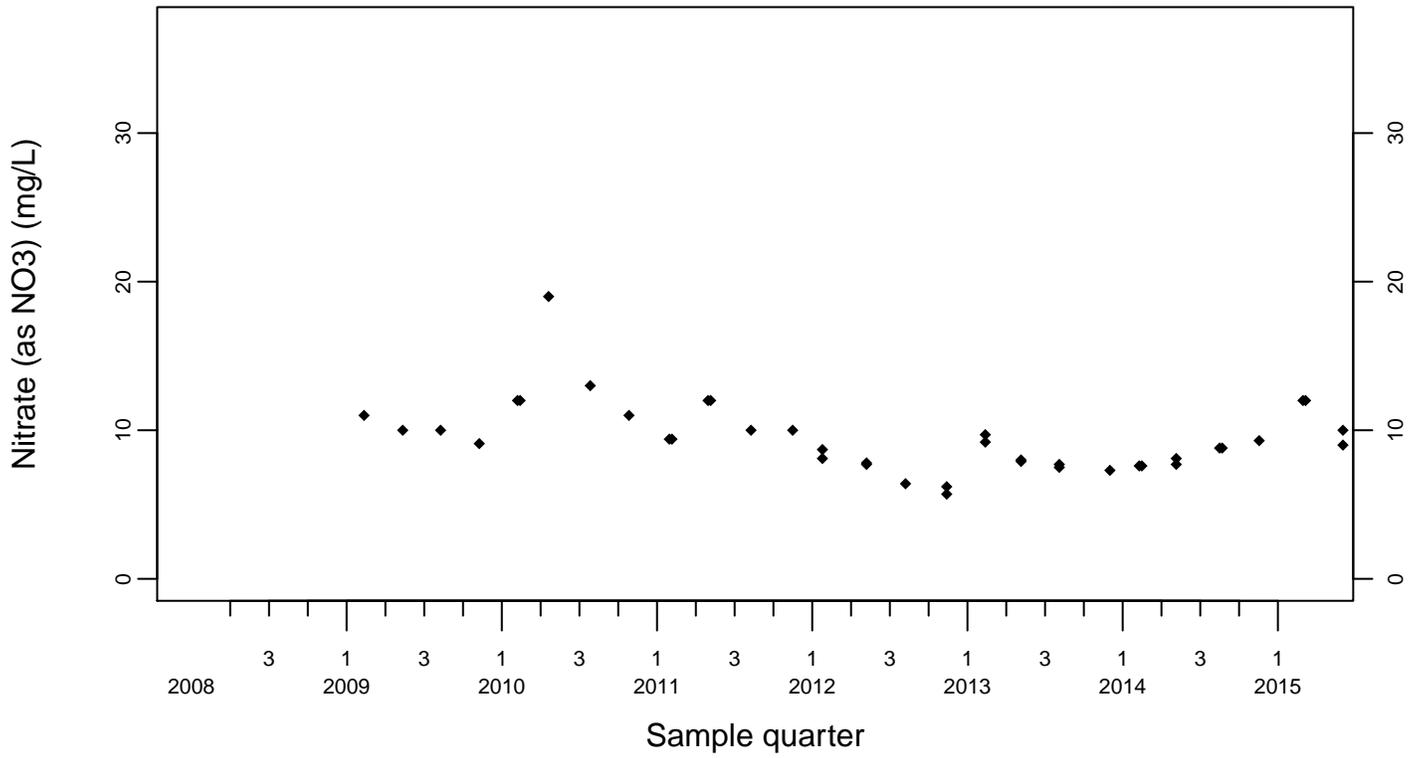




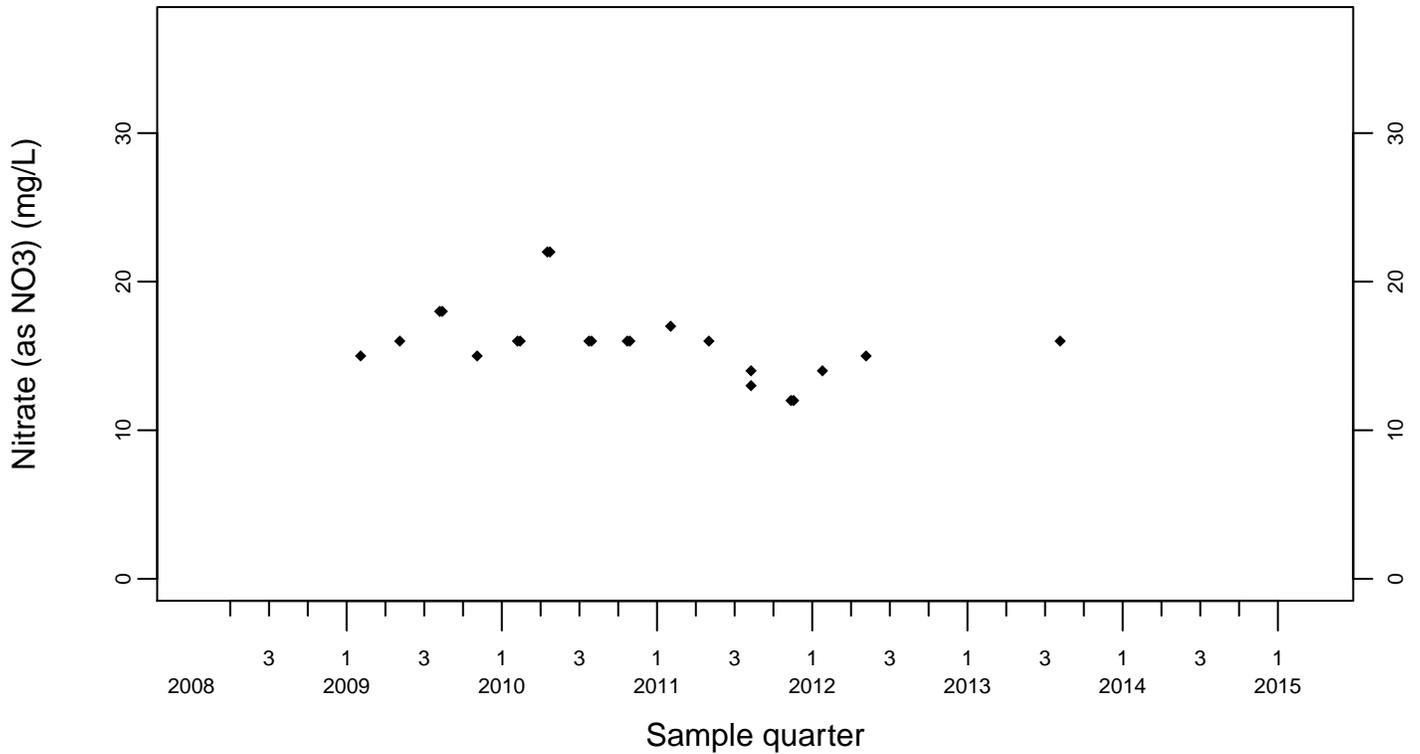
Sewage Ponds Ground Water Nitrate (as NO₃) (mg/L)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL



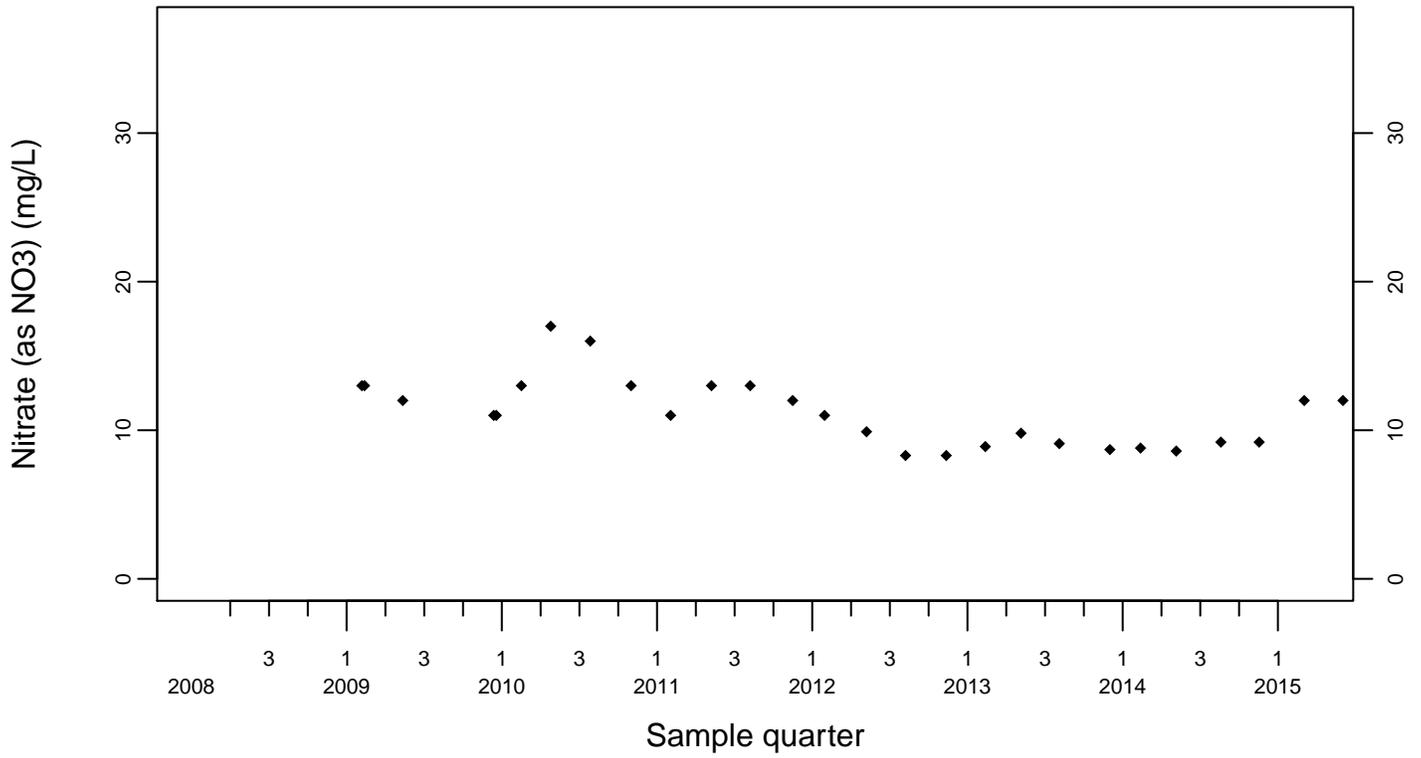
Upgradient Monitor Well W-7PS



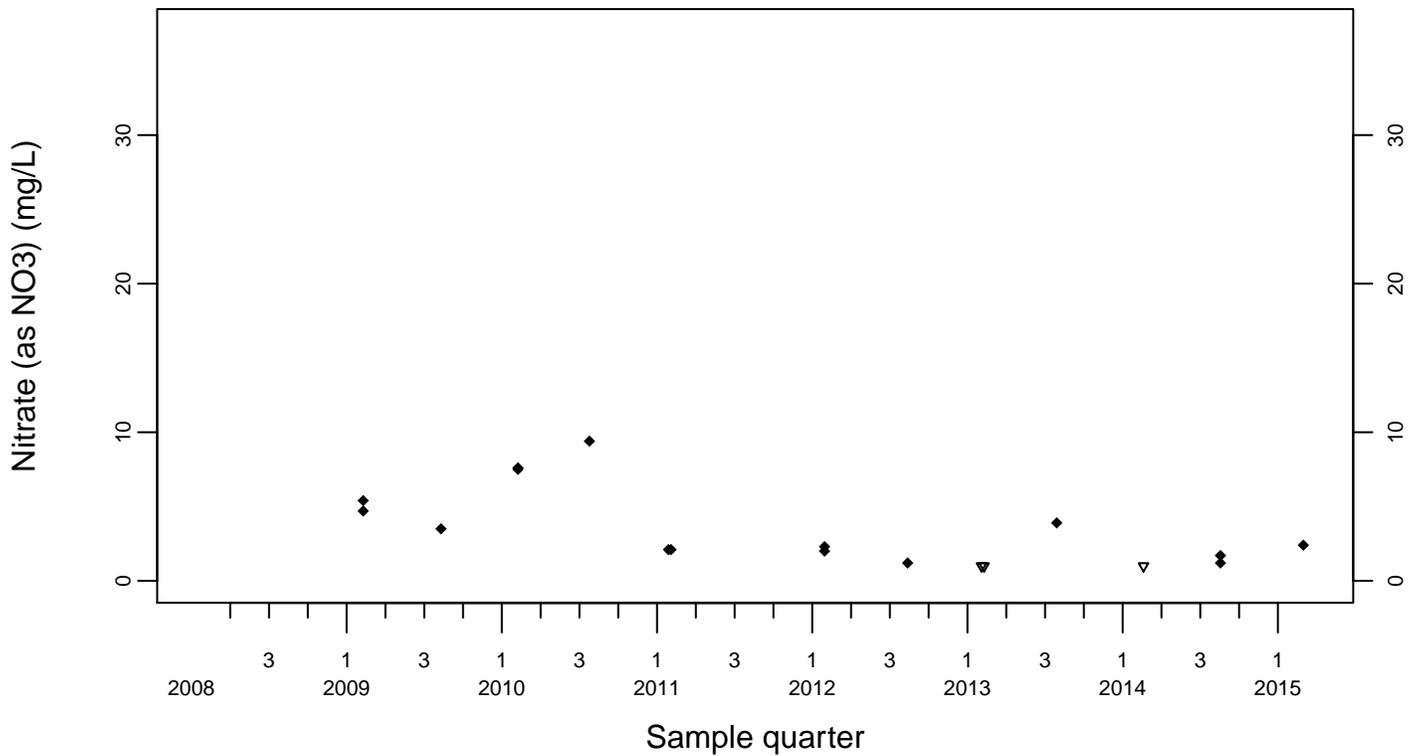
Sewage Ponds Ground Water
 Nitrate (as NO₃) (mg/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
 ▼ Below RL



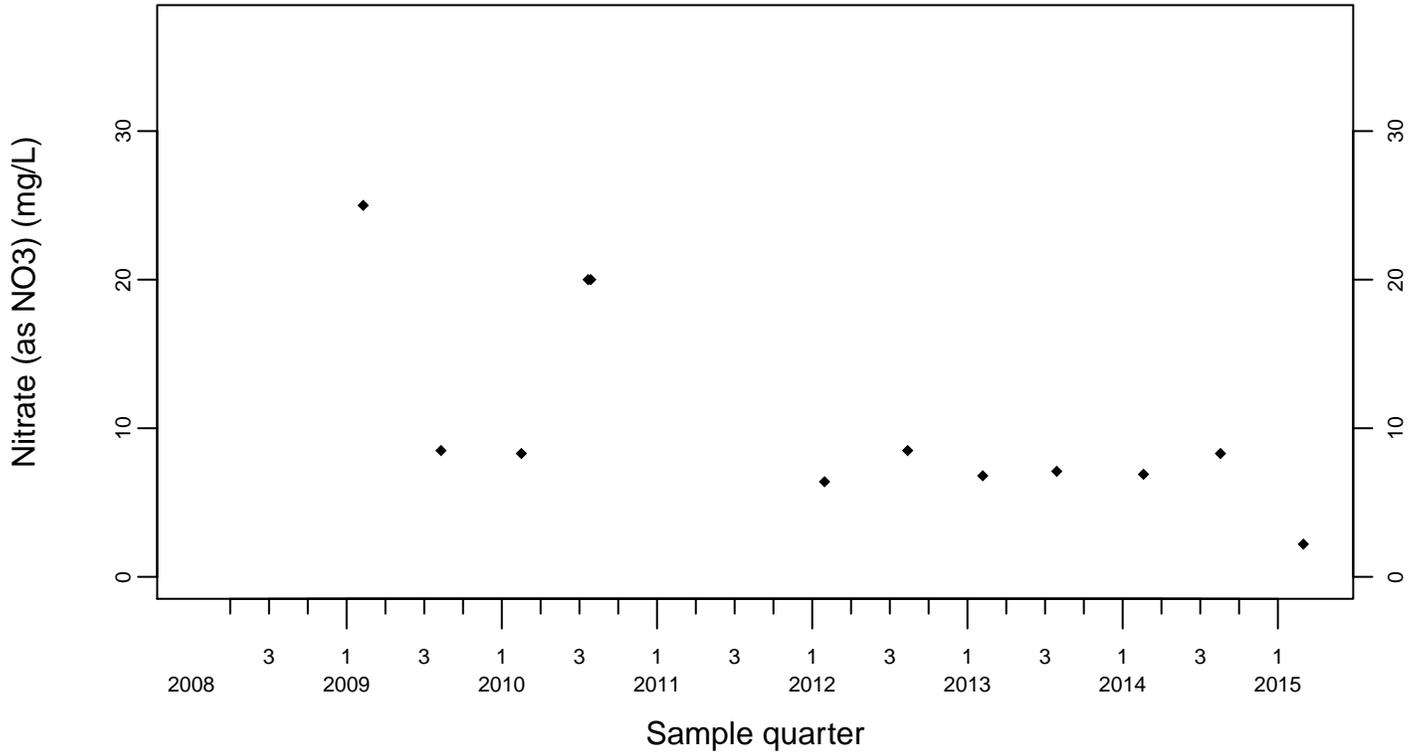
Downgradient Monitor Well W-25N-23



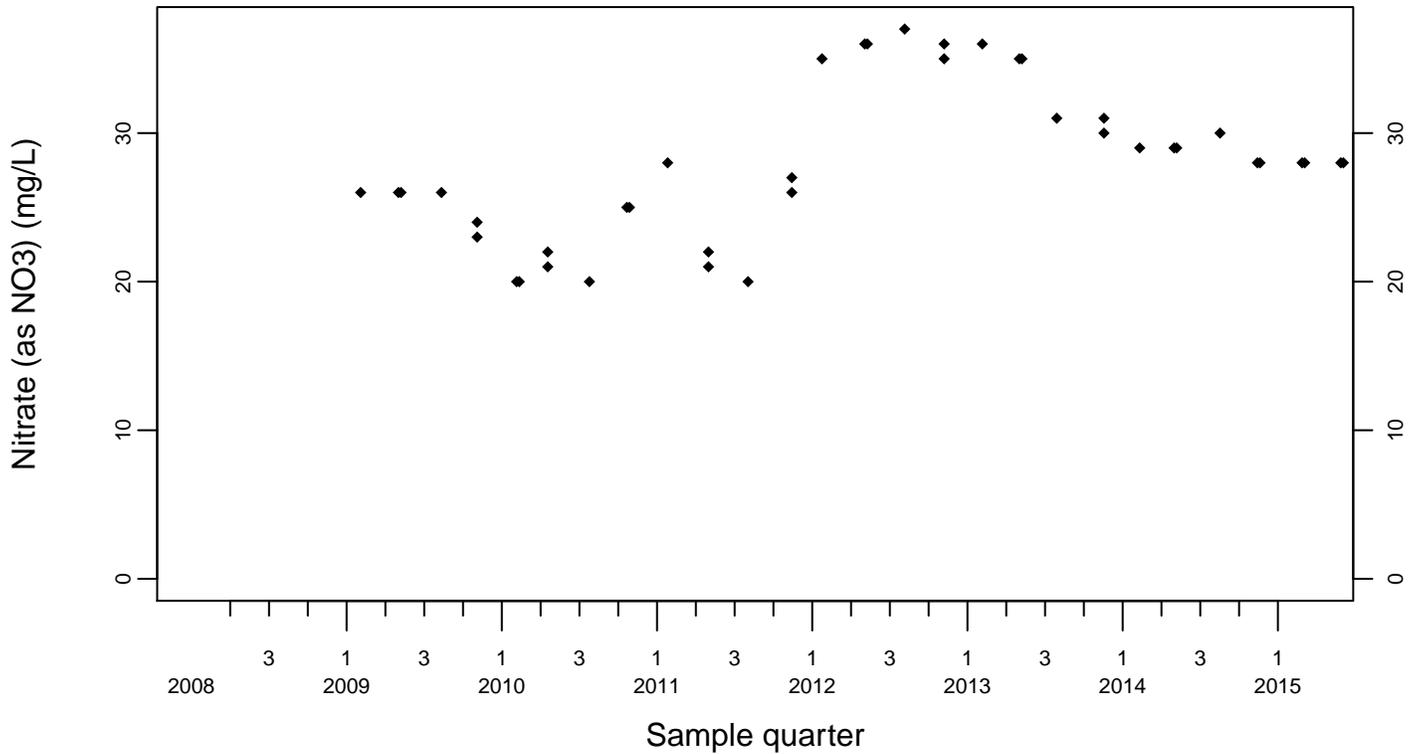
Sewage Ponds Ground Water Nitrate (as NO₃) (mg/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



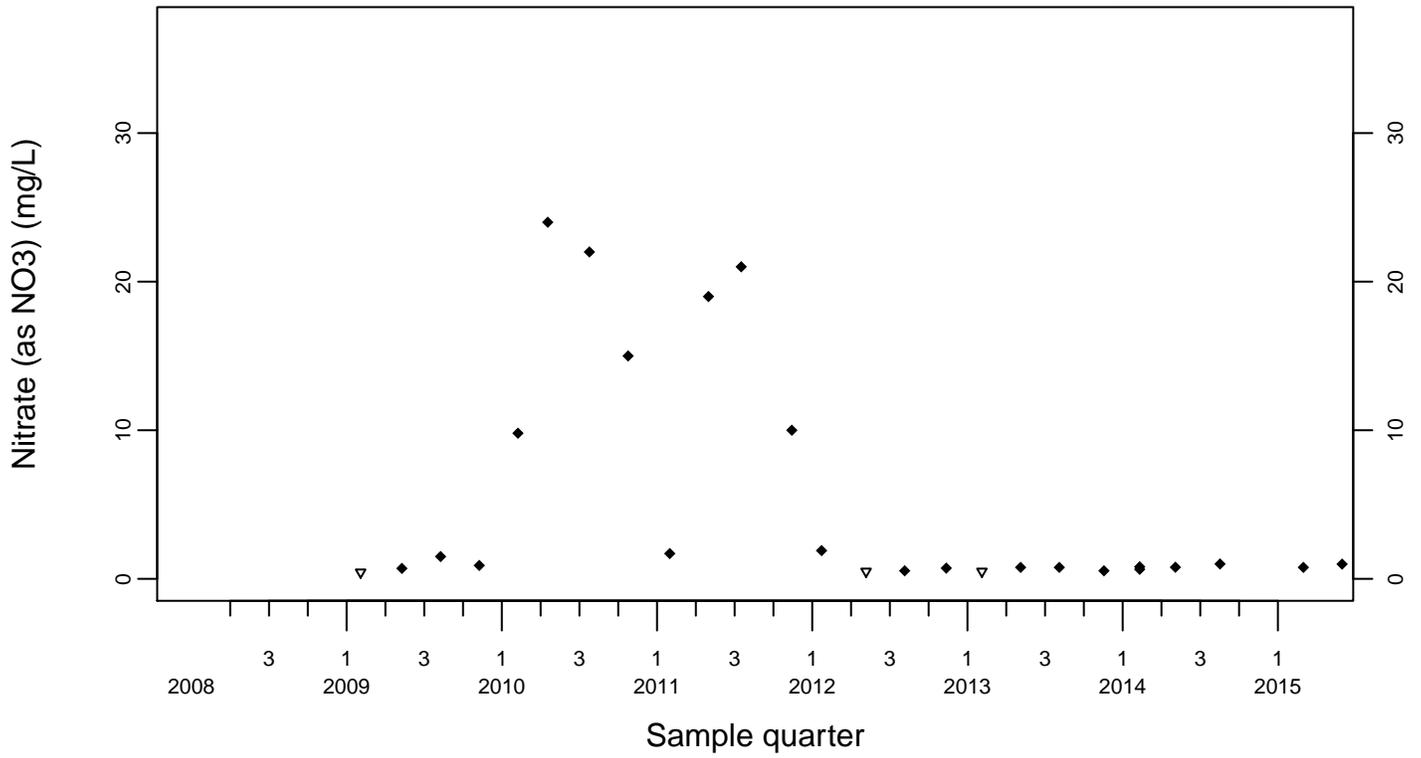
Downgradient Monitor Well W-26R-01



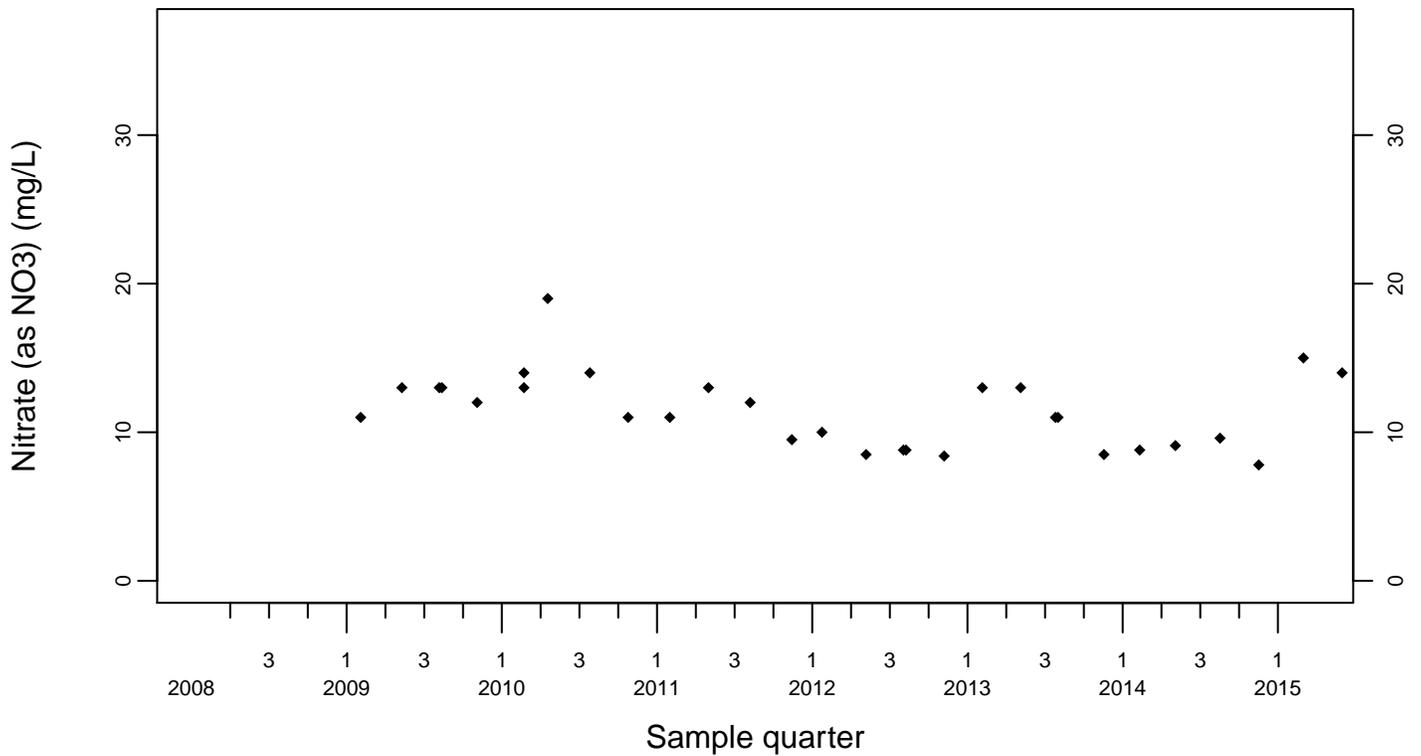
Sewage Ponds Ground Water Nitrate (as NO3) (mg/L)

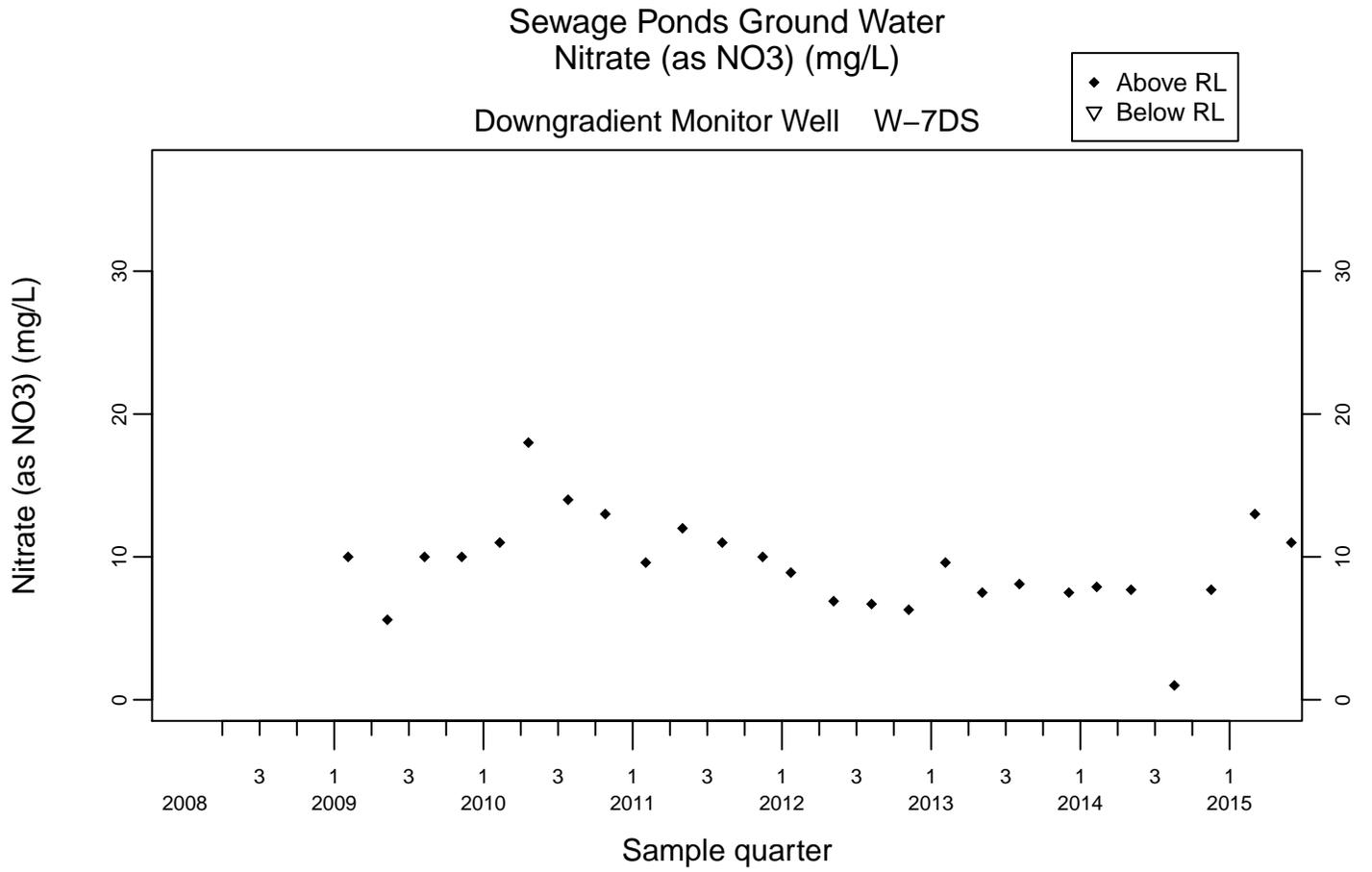
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

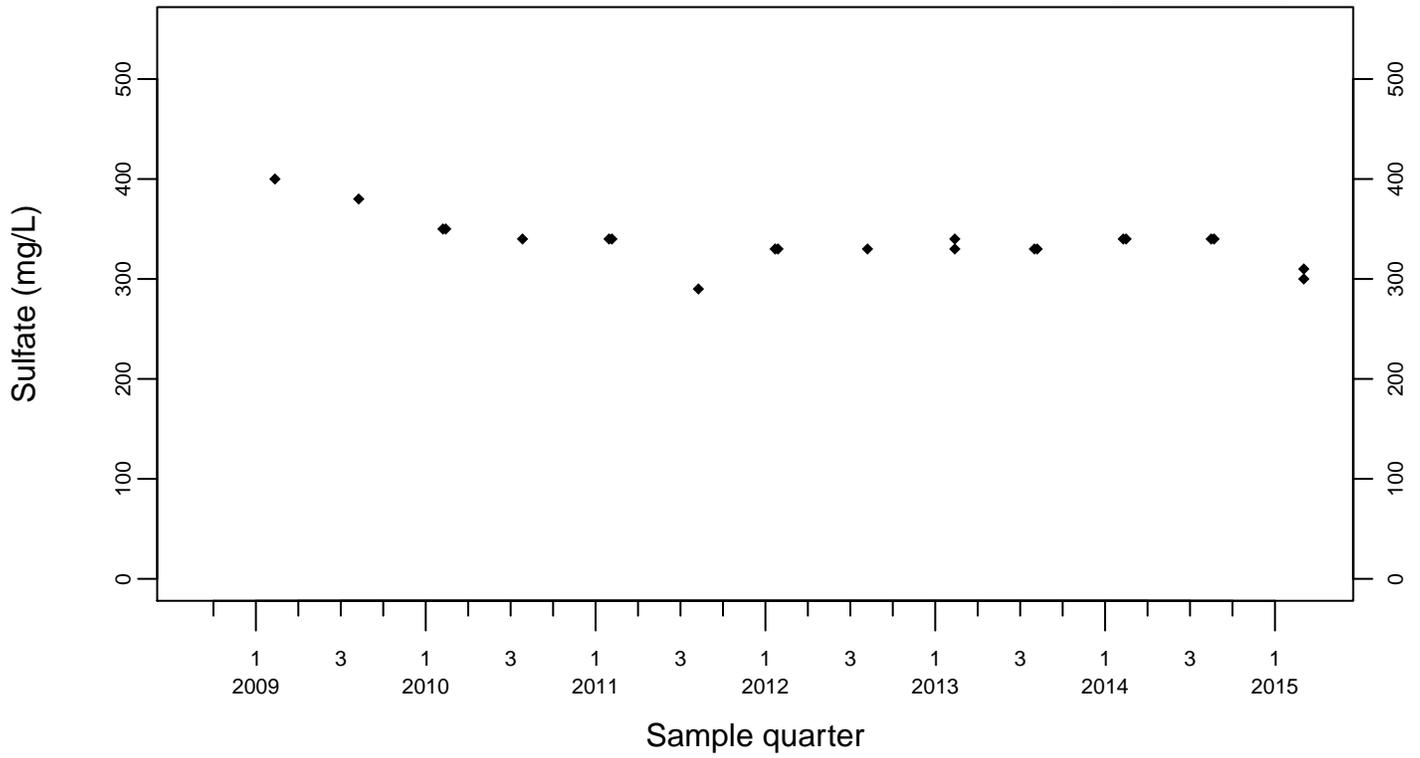




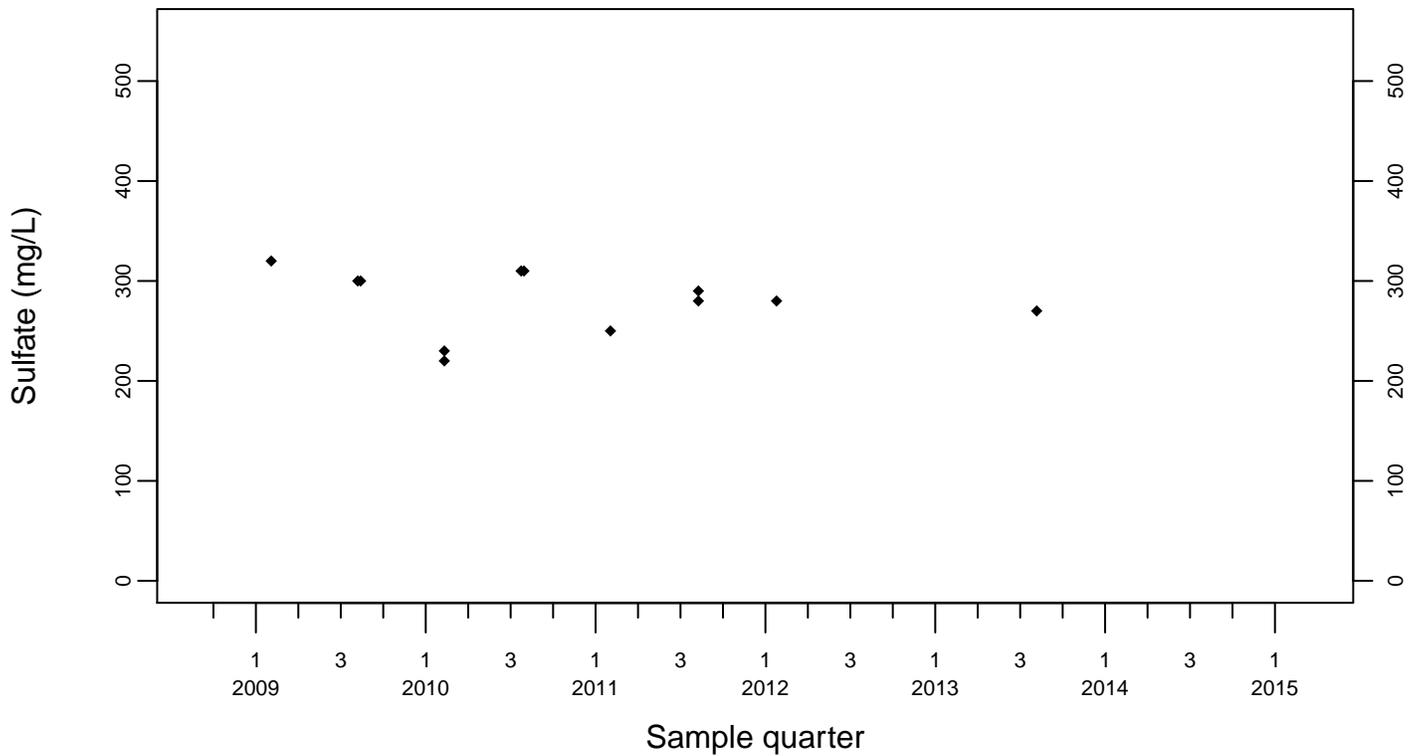
Sewage Ponds Ground Water Sulfate (mg/L)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL



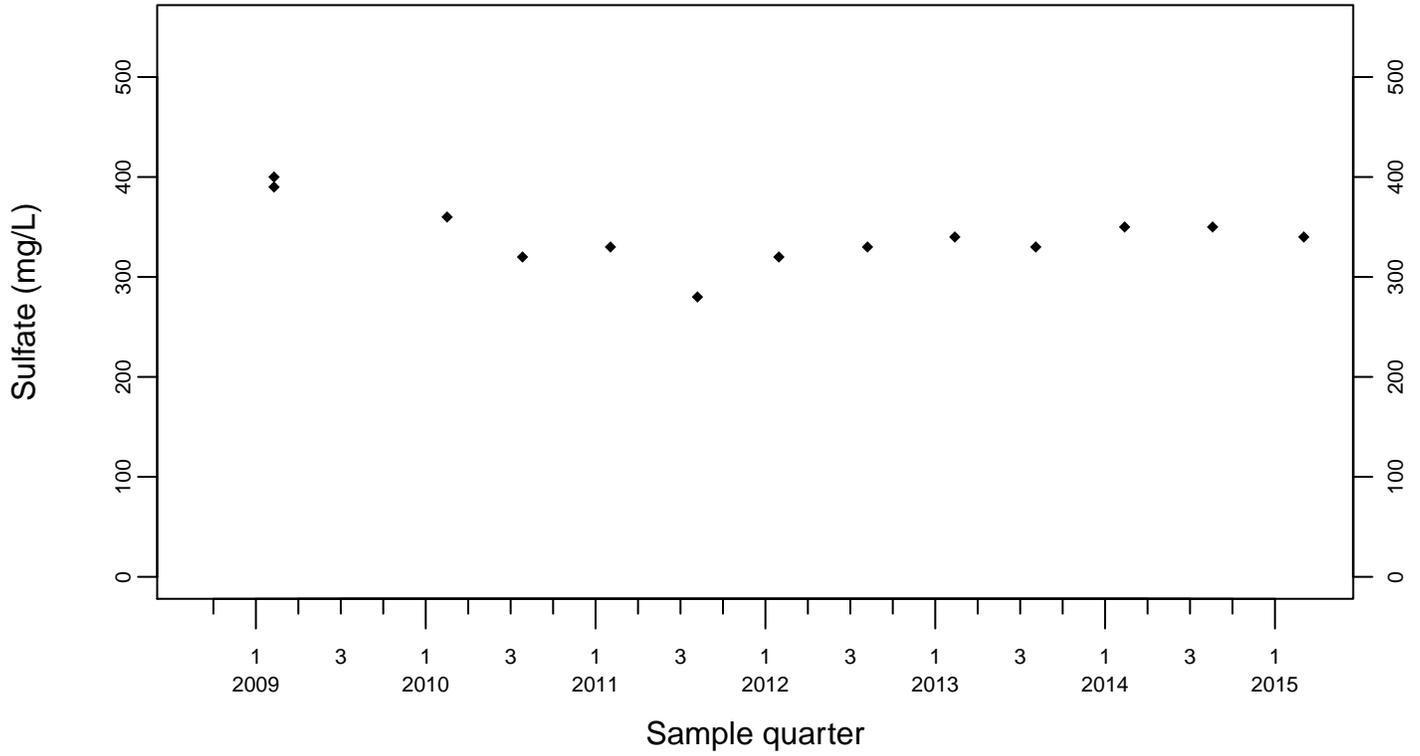
Upgradient Monitor Well W-7PS



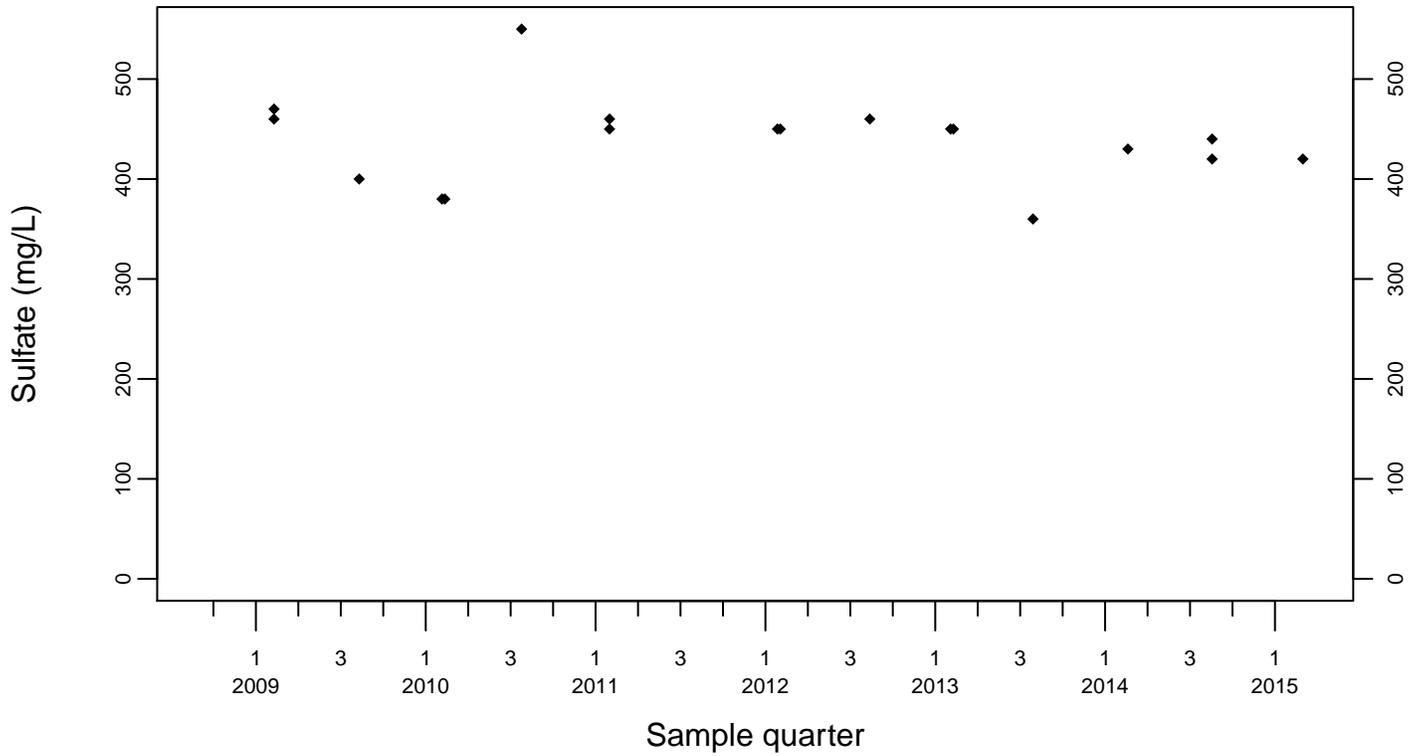
Sewage Ponds Ground Water Sulfate (mg/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



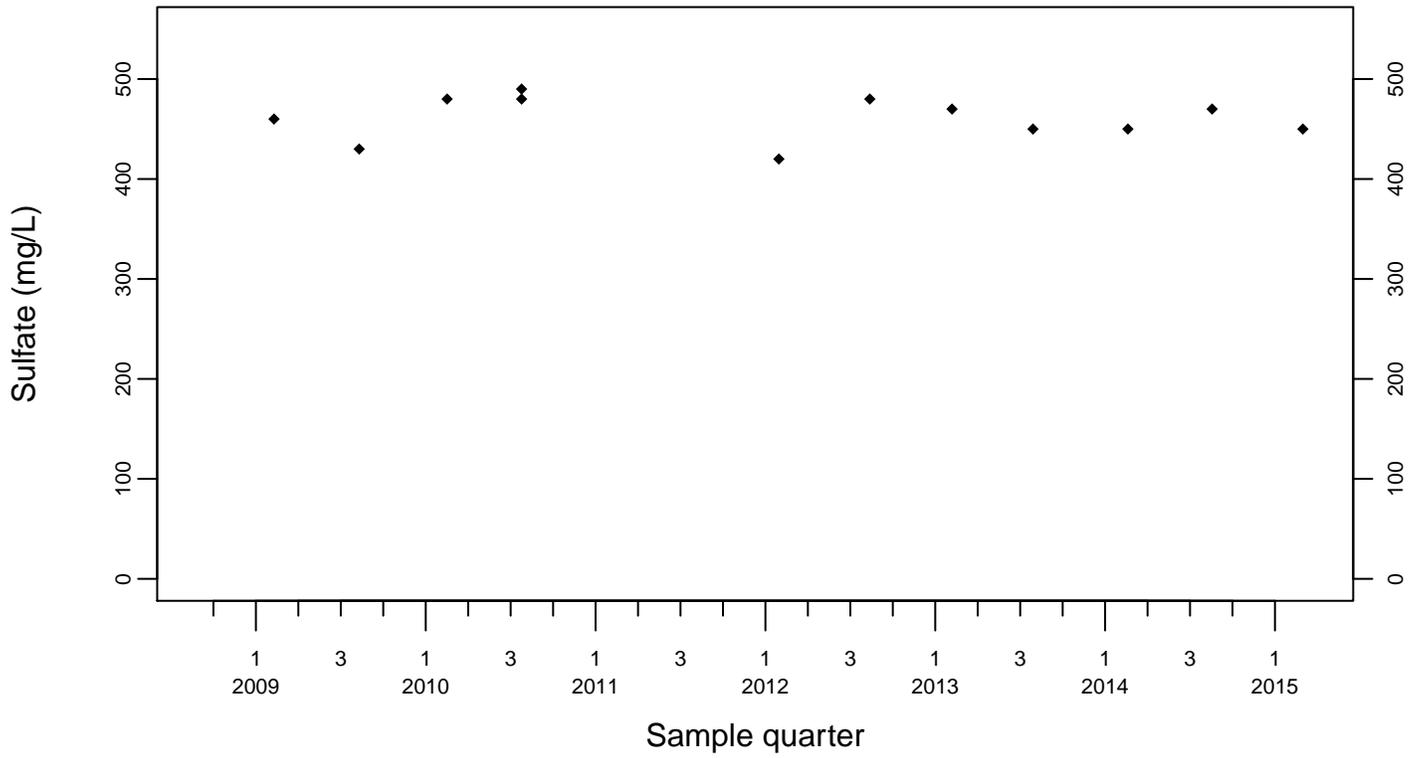
Downgradient Monitor Well W-25N-23



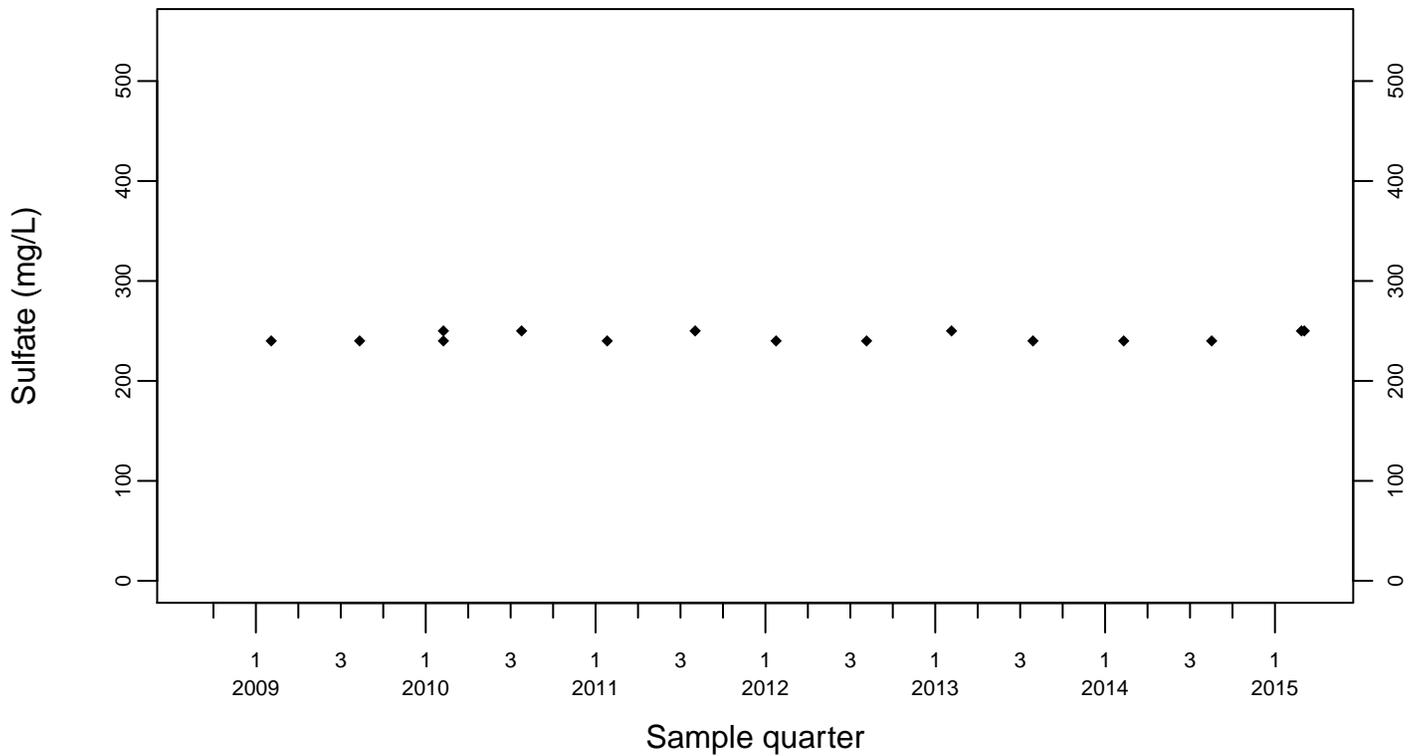
Sewage Ponds Ground Water Sulfate (mg/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



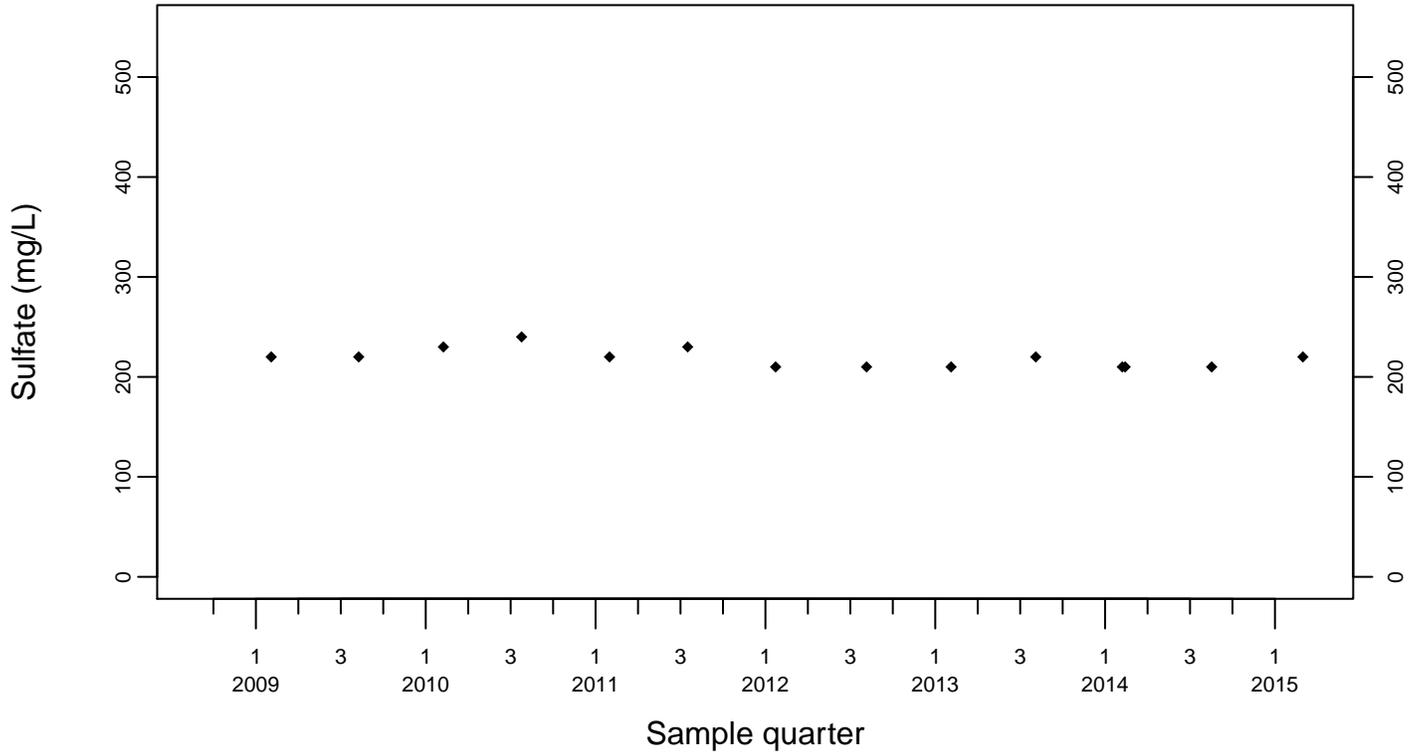
Downgradient Monitor Well W-26R-01



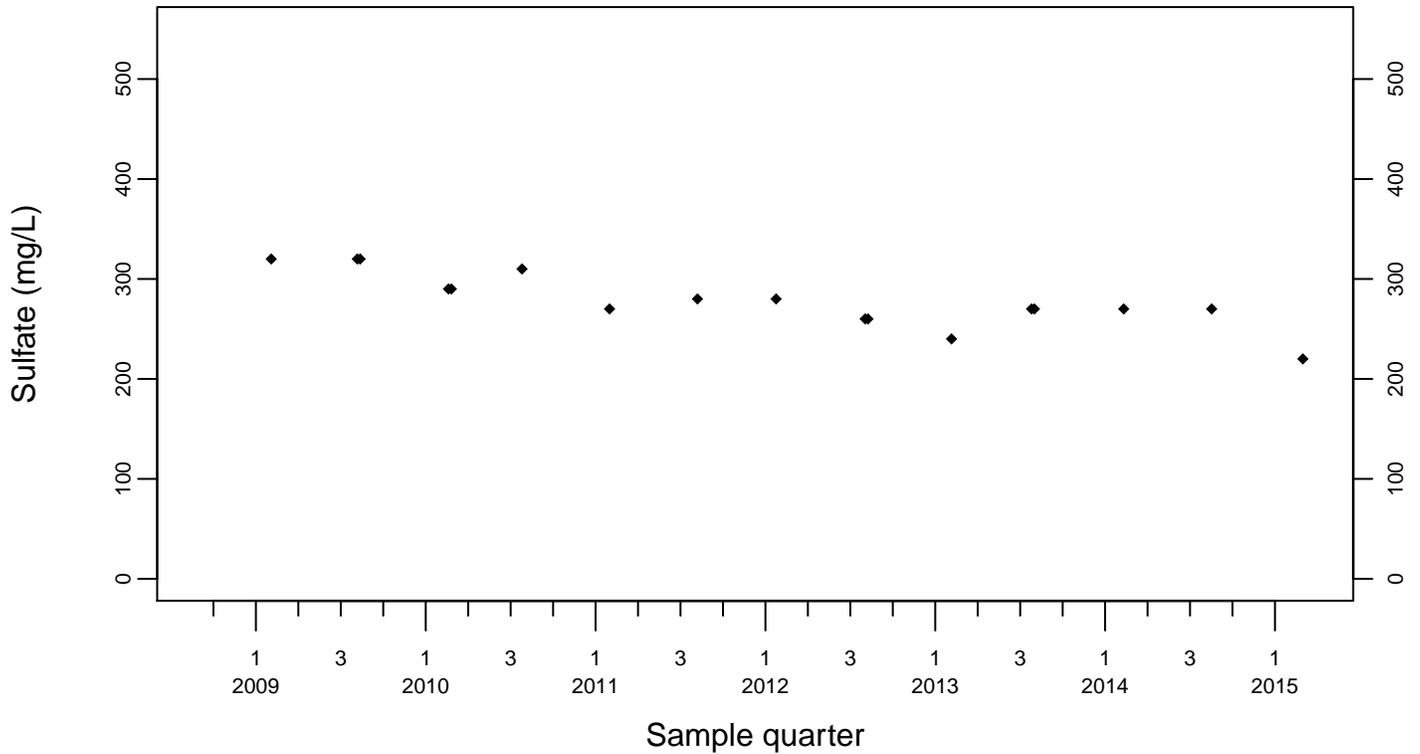
Sewage Ponds Ground Water Sulfate (mg/L)

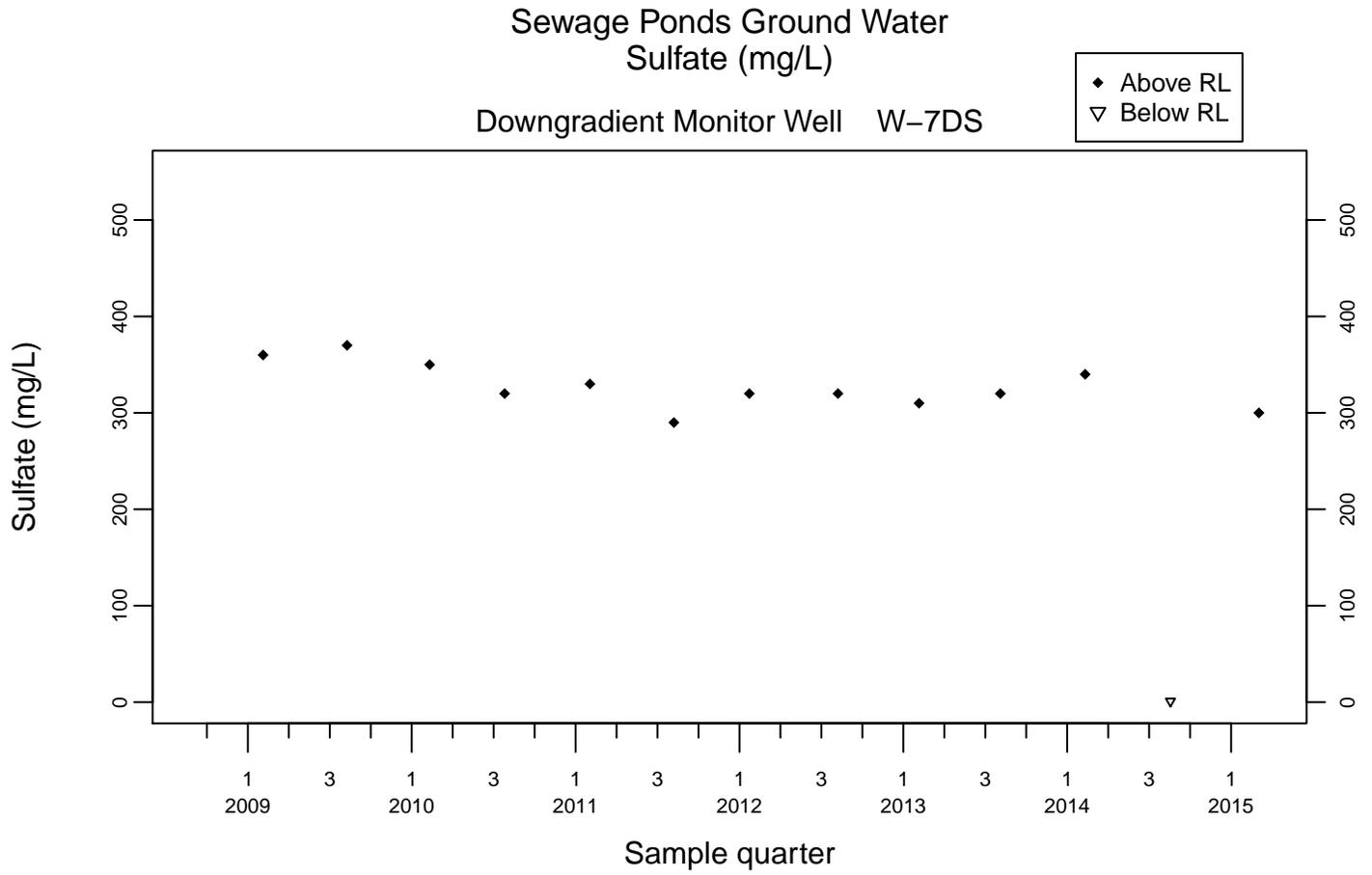
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

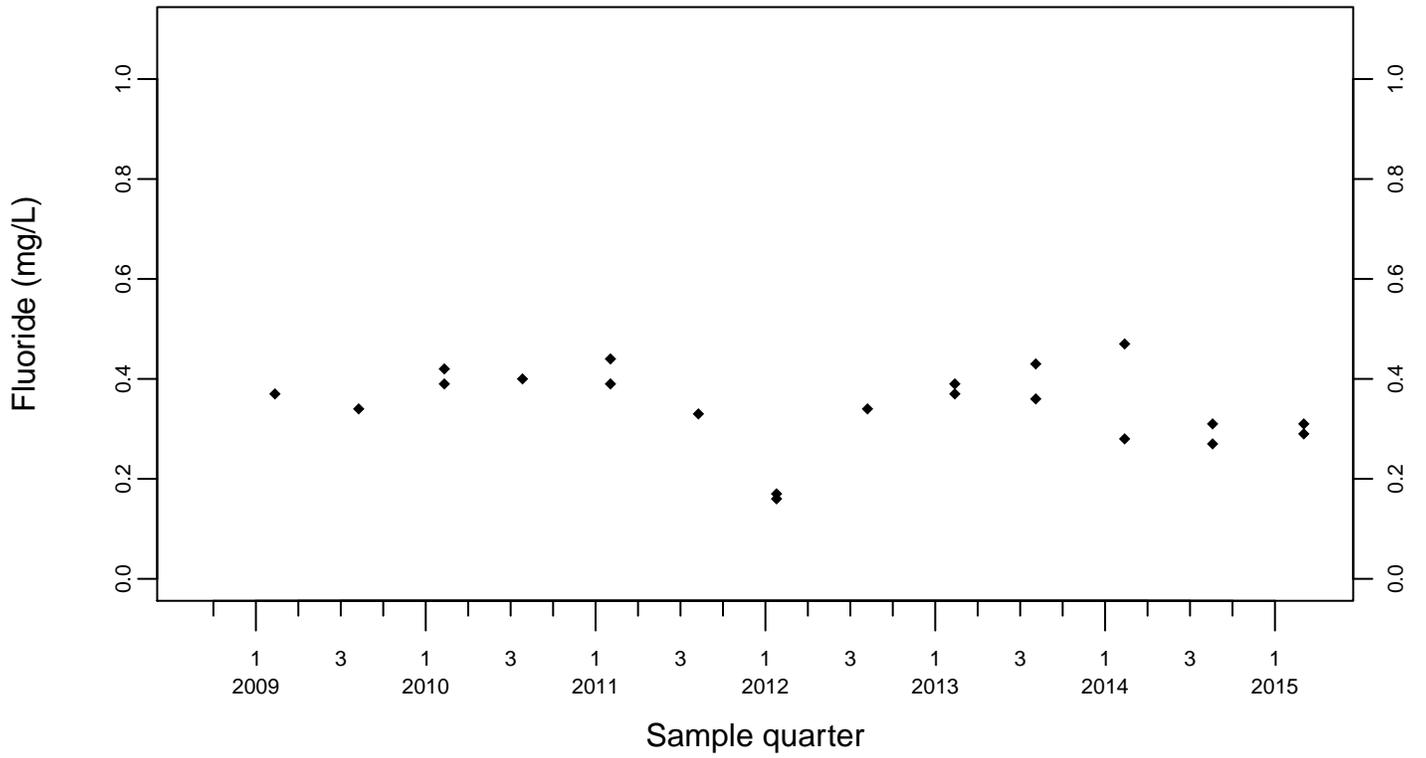




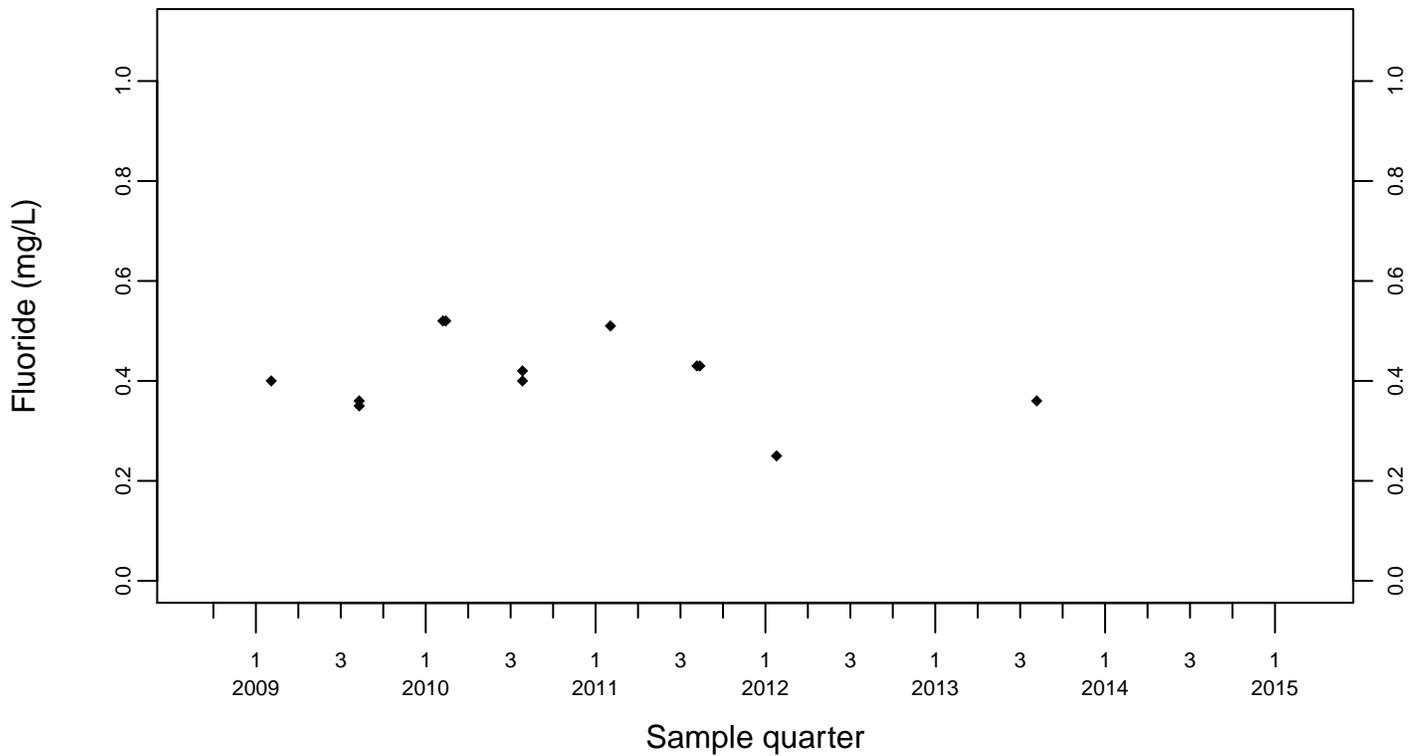
Sewage Ponds Ground Water Fluoride (mg/L)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL



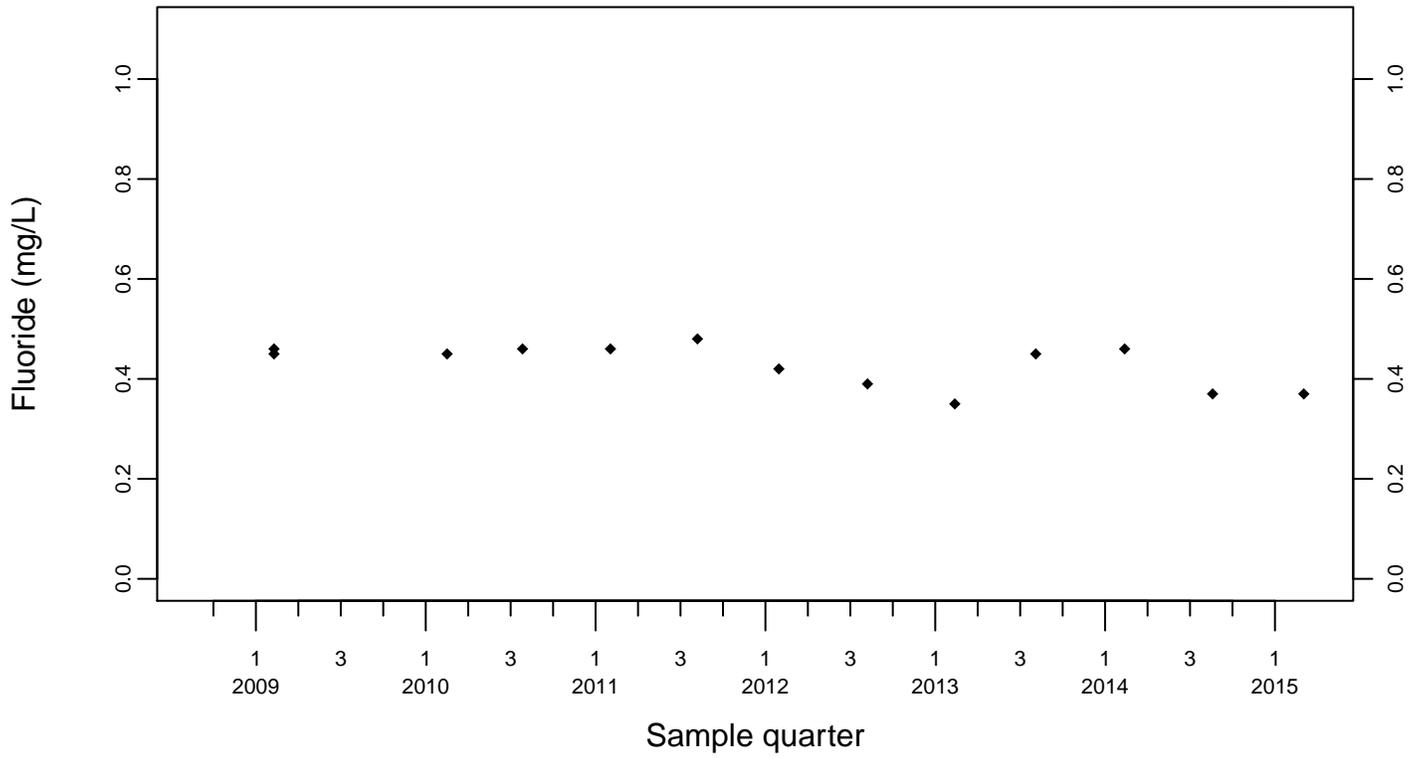
Upgradient Monitor Well W-7PS



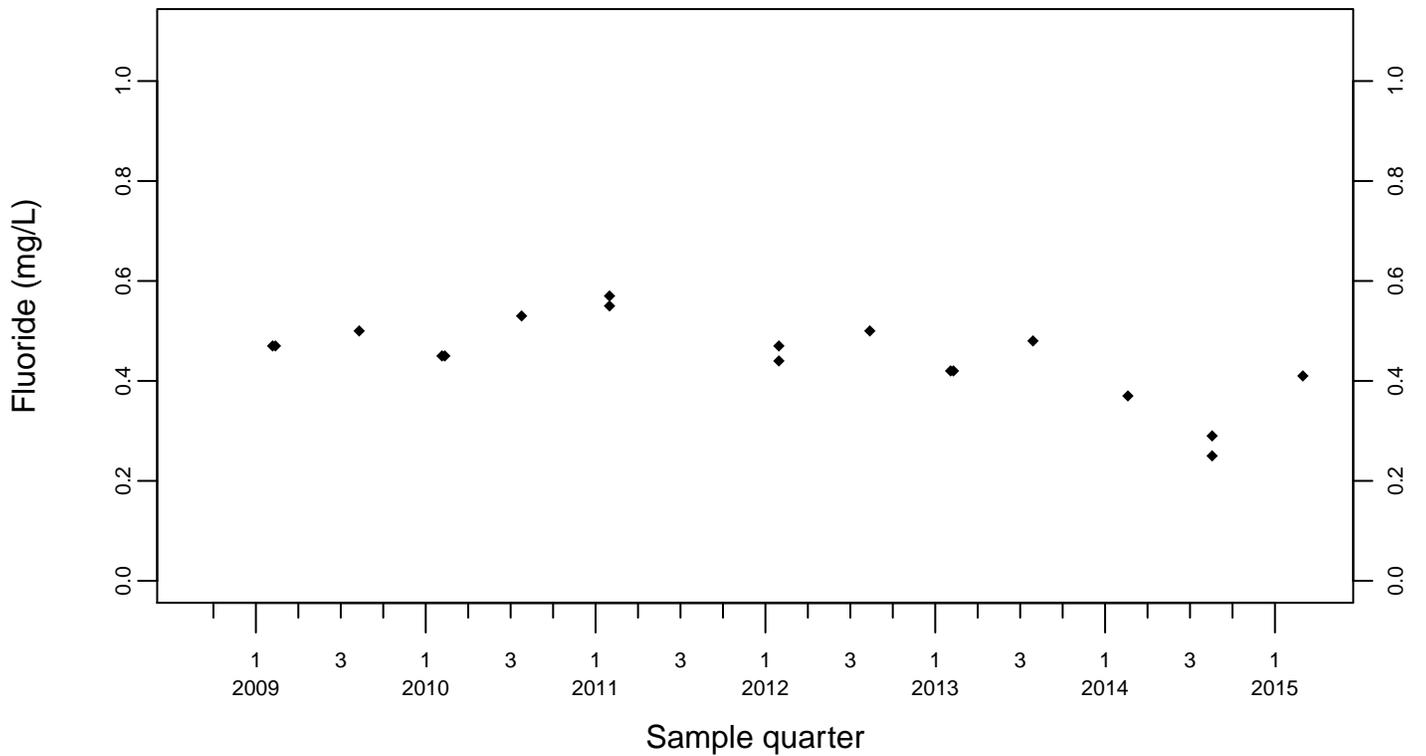
Sewage Ponds Ground Water Fluoride (mg/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



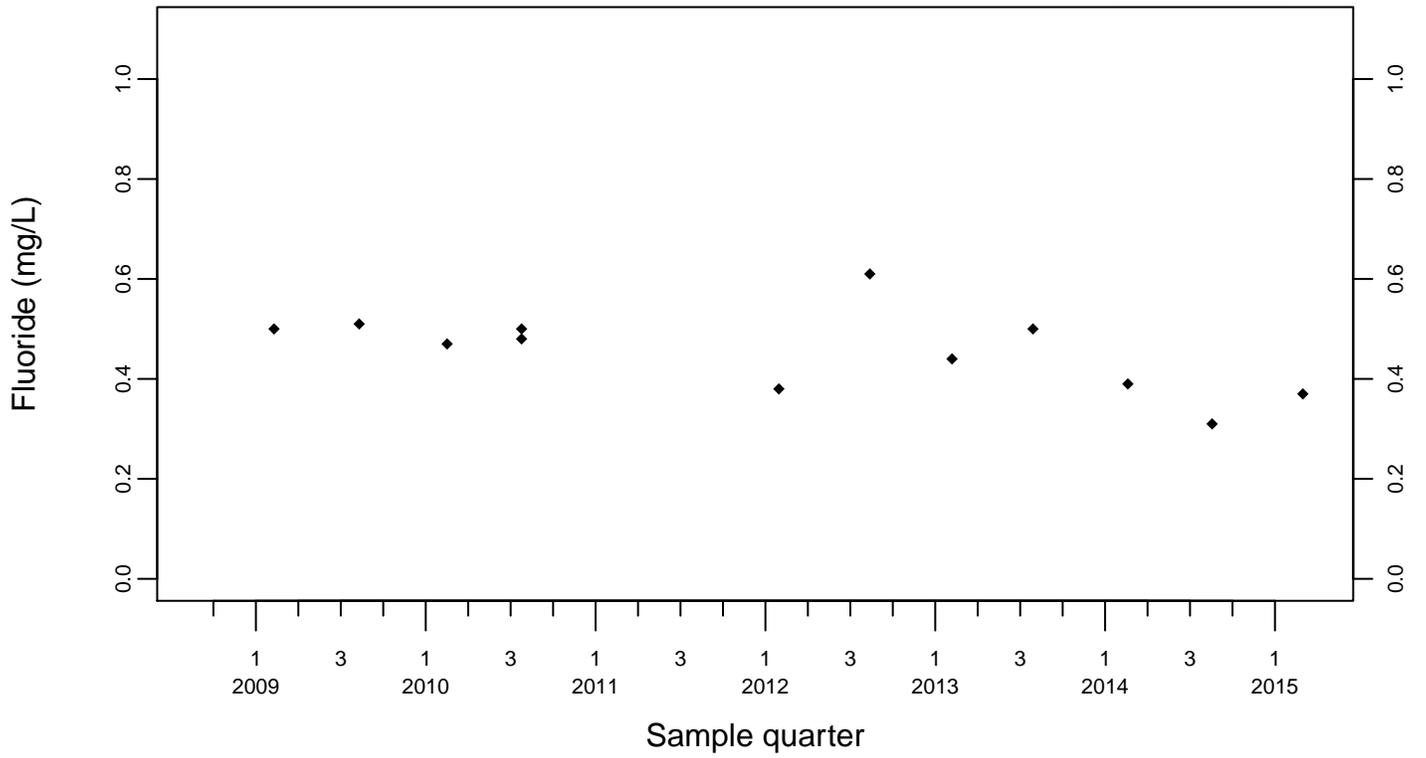
Downgradient Monitor Well W-25N-23



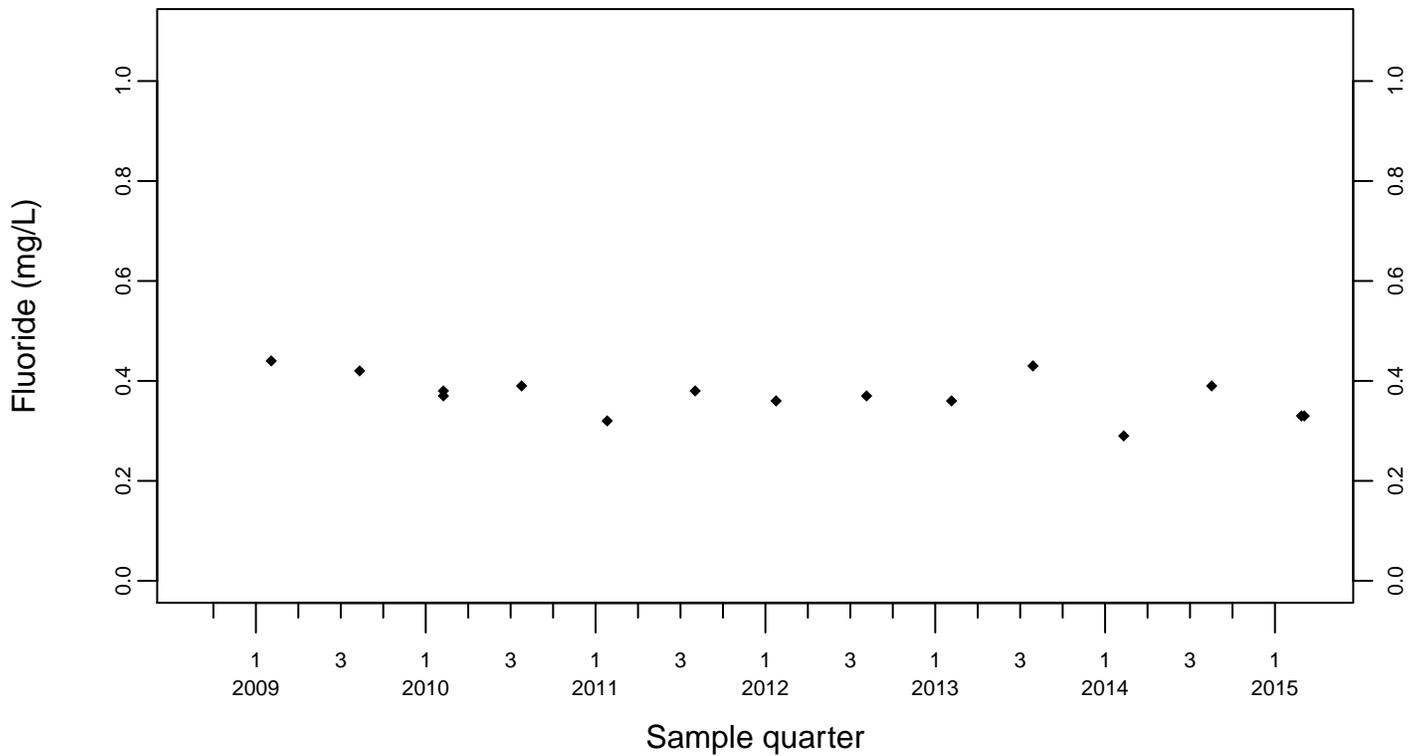
Sewage Ponds Ground Water Fluoride (mg/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



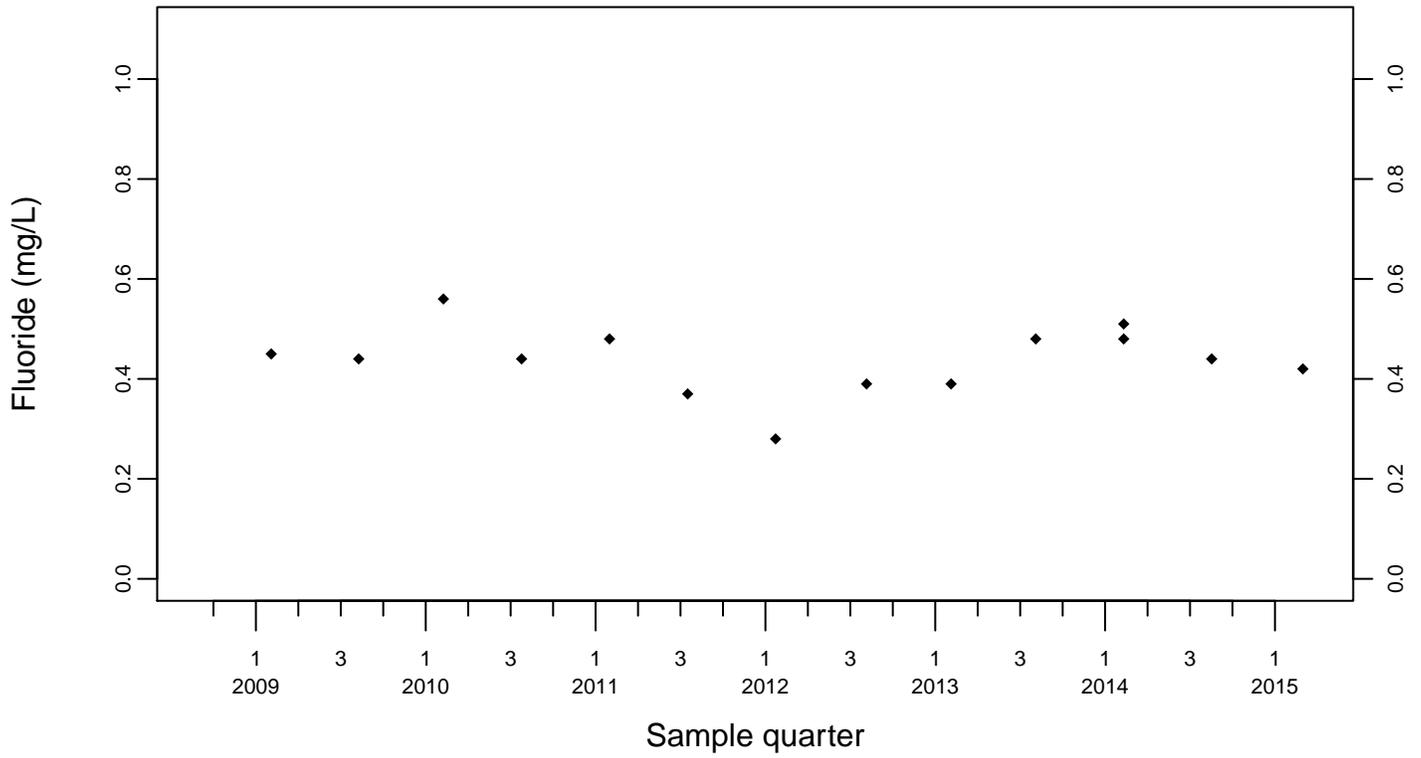
Downgradient Monitor Well W-26R-01



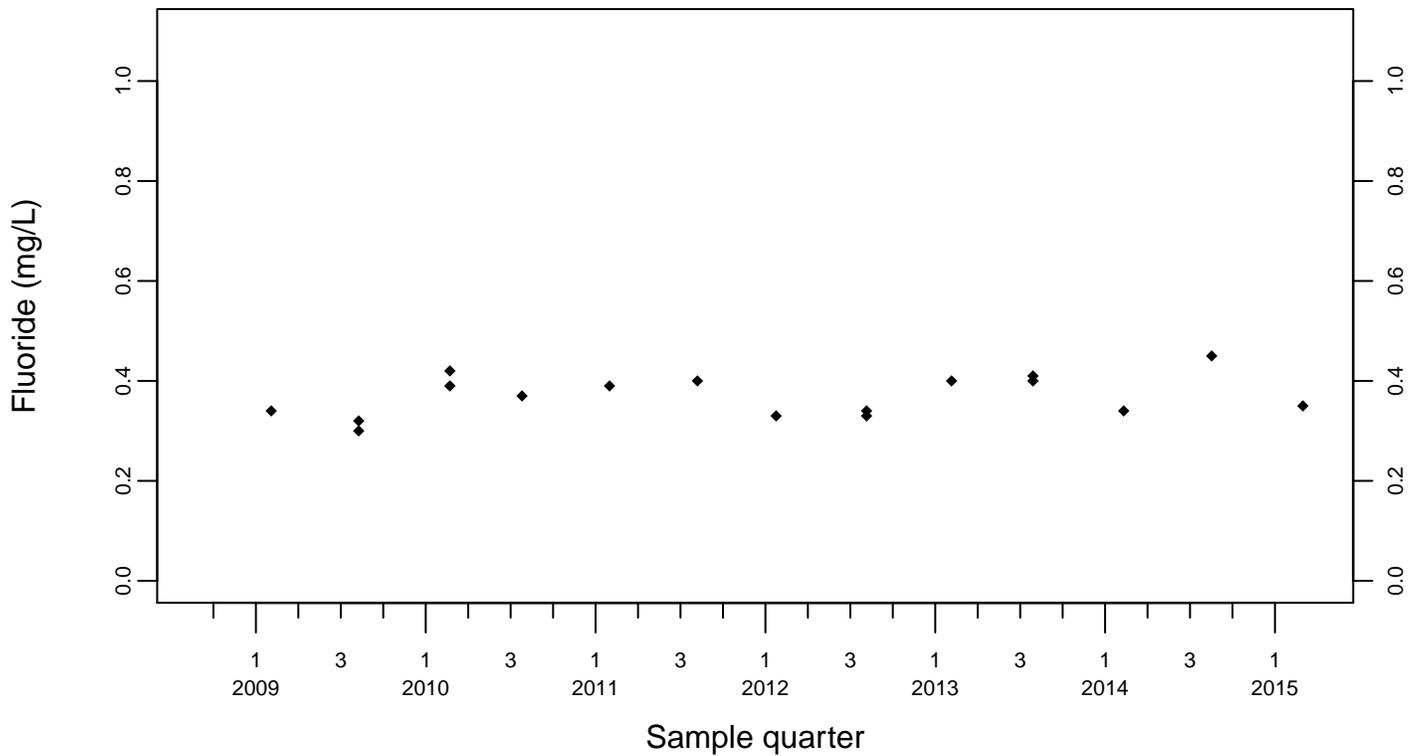
Sewage Ponds Ground Water Fluoride (mg/L)

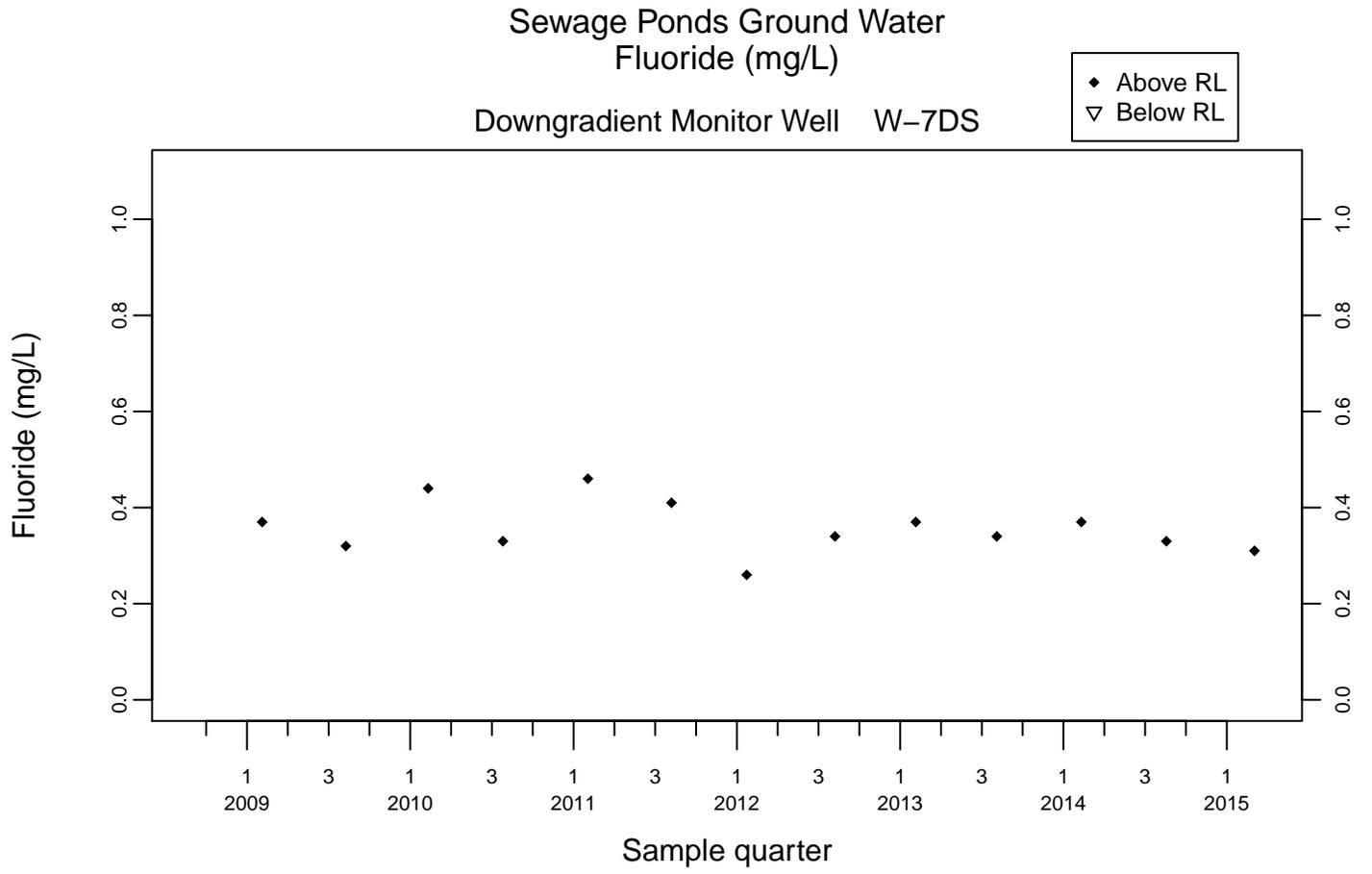
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

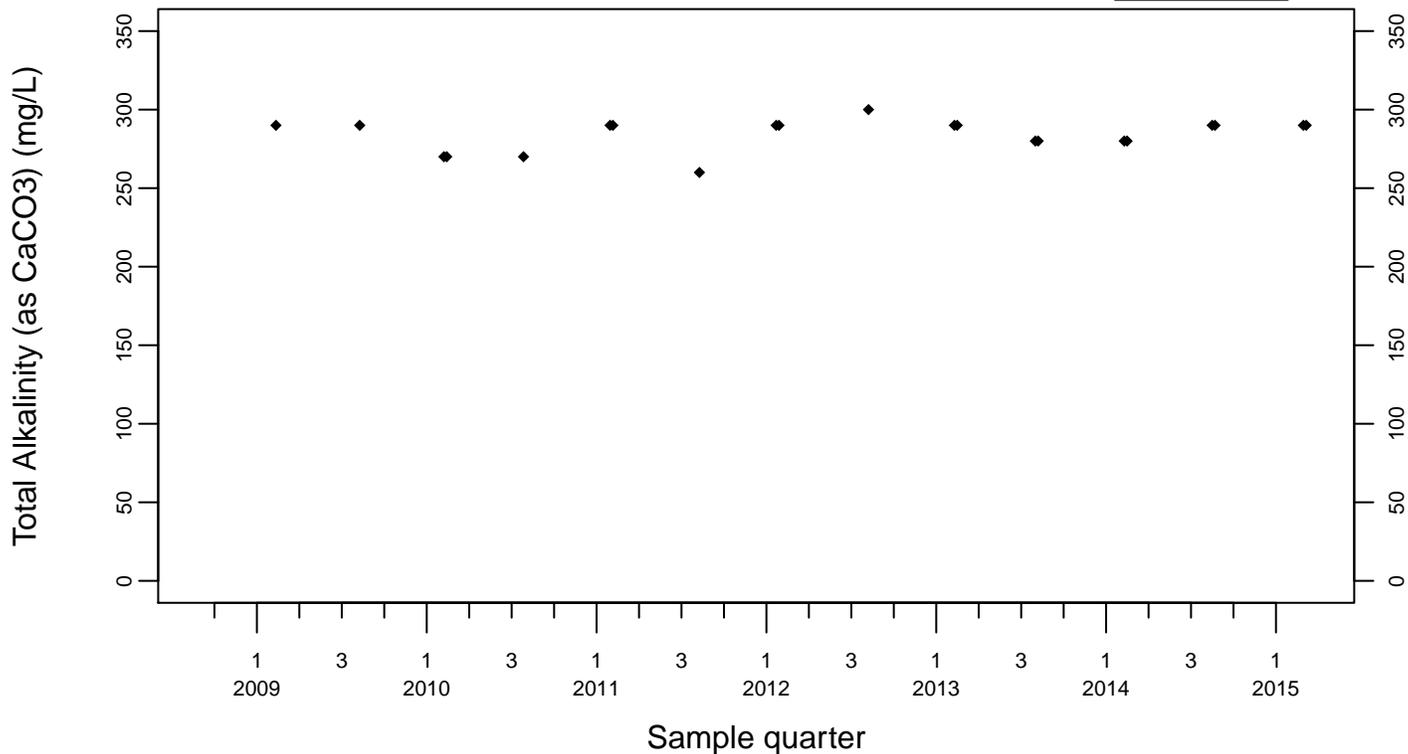




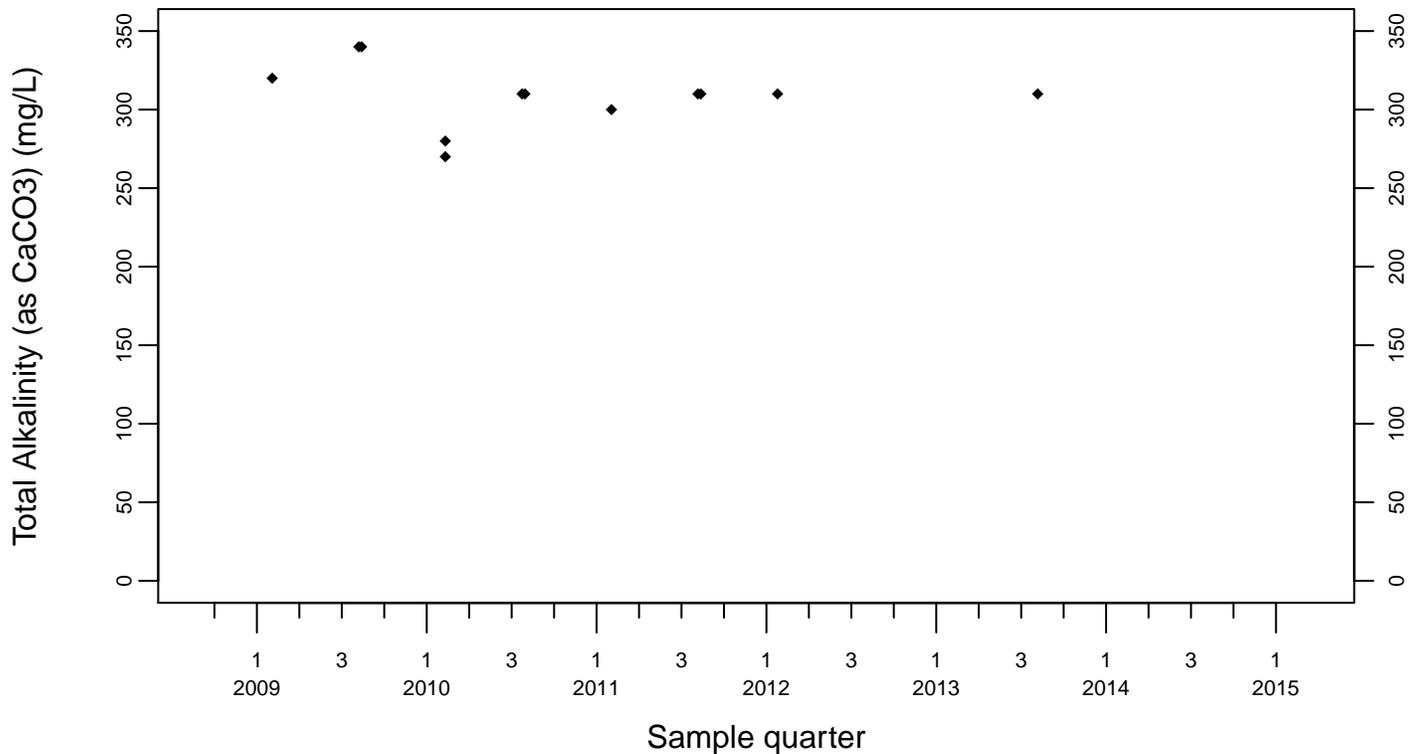
Sewage Ponds Ground Water
 Total Alkalinity (as CaCO₃) (mg/L)

Upgradient Monitor Well W-7ES

◆ Above RL
 ▼ Below RL

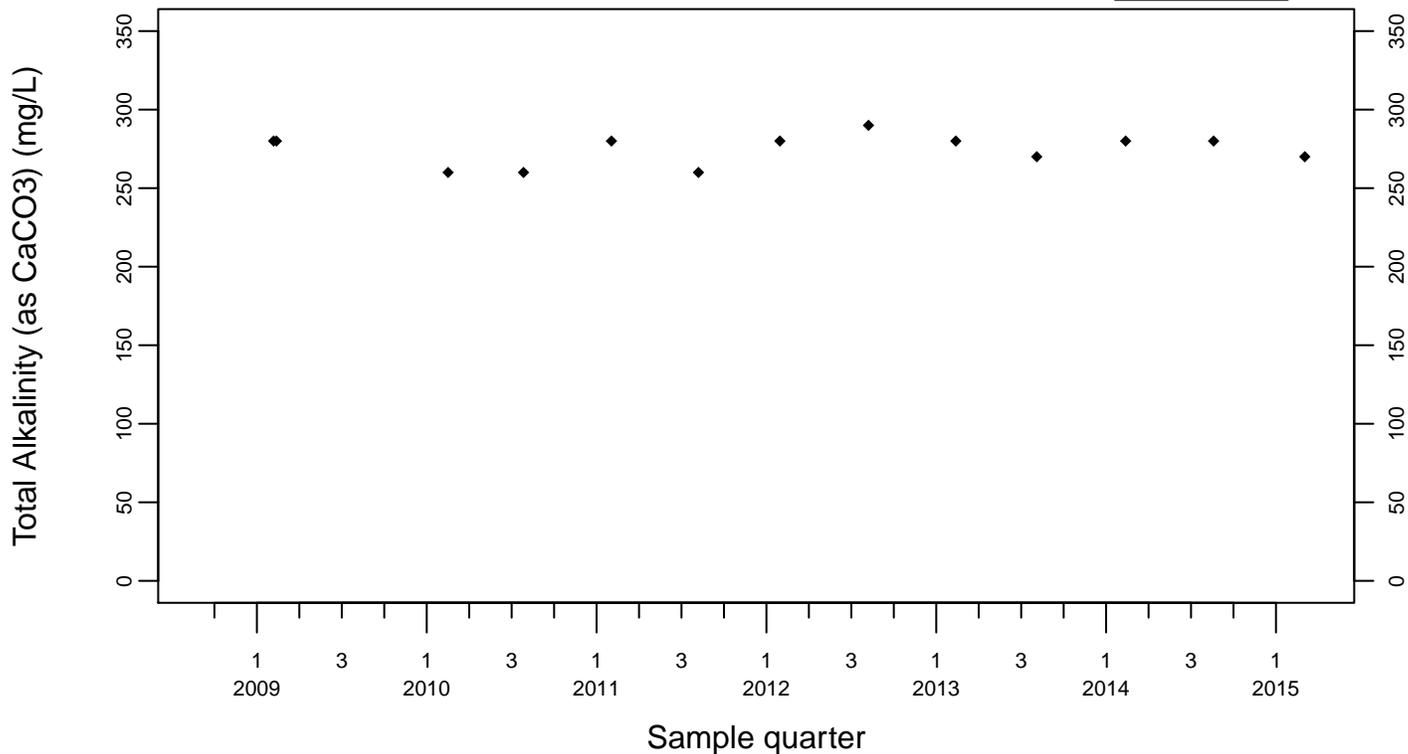


Upgradient Monitor Well W-7PS

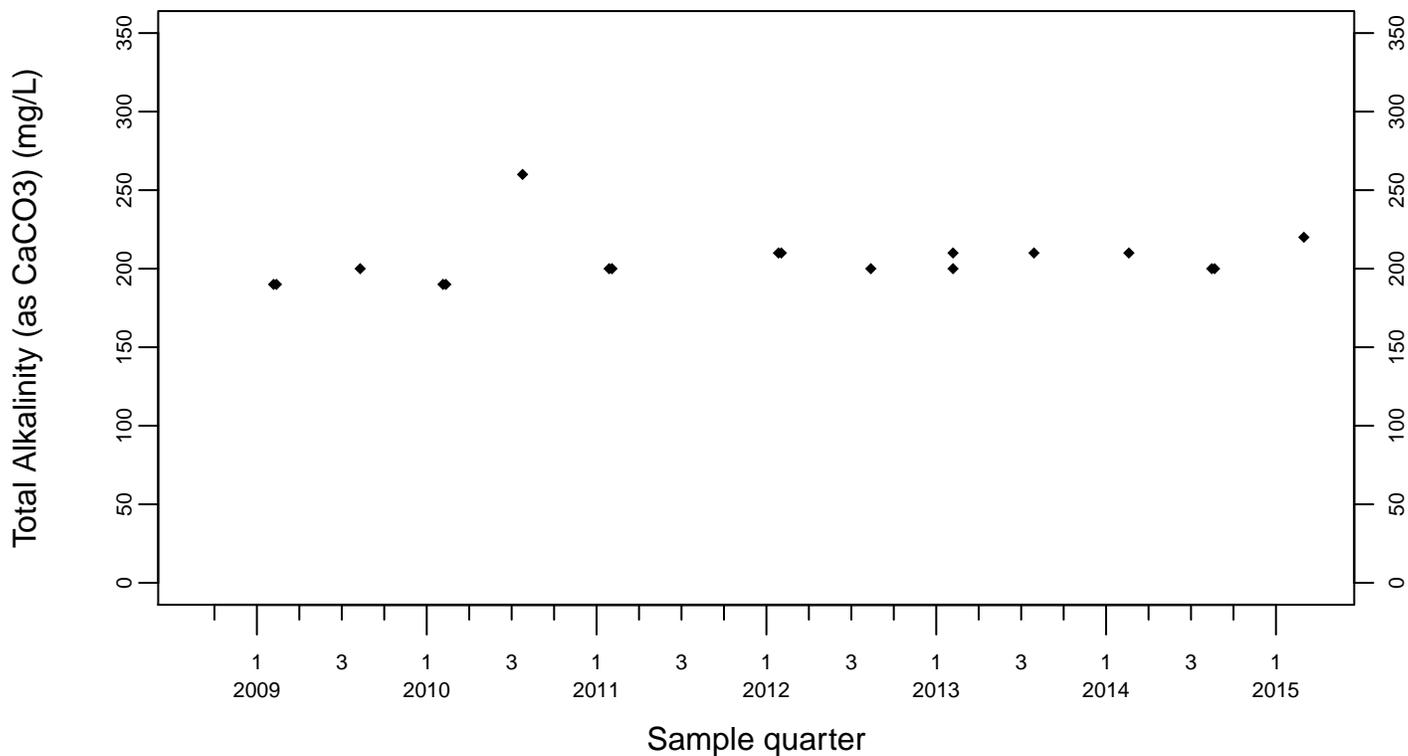


Sewage Ponds Ground Water
 Total Alkalinity (as CaCO₃) (mg/L)
 Crossgradient Monitor Well W-35A-04

◆ Above RL
 ▼ Below RL



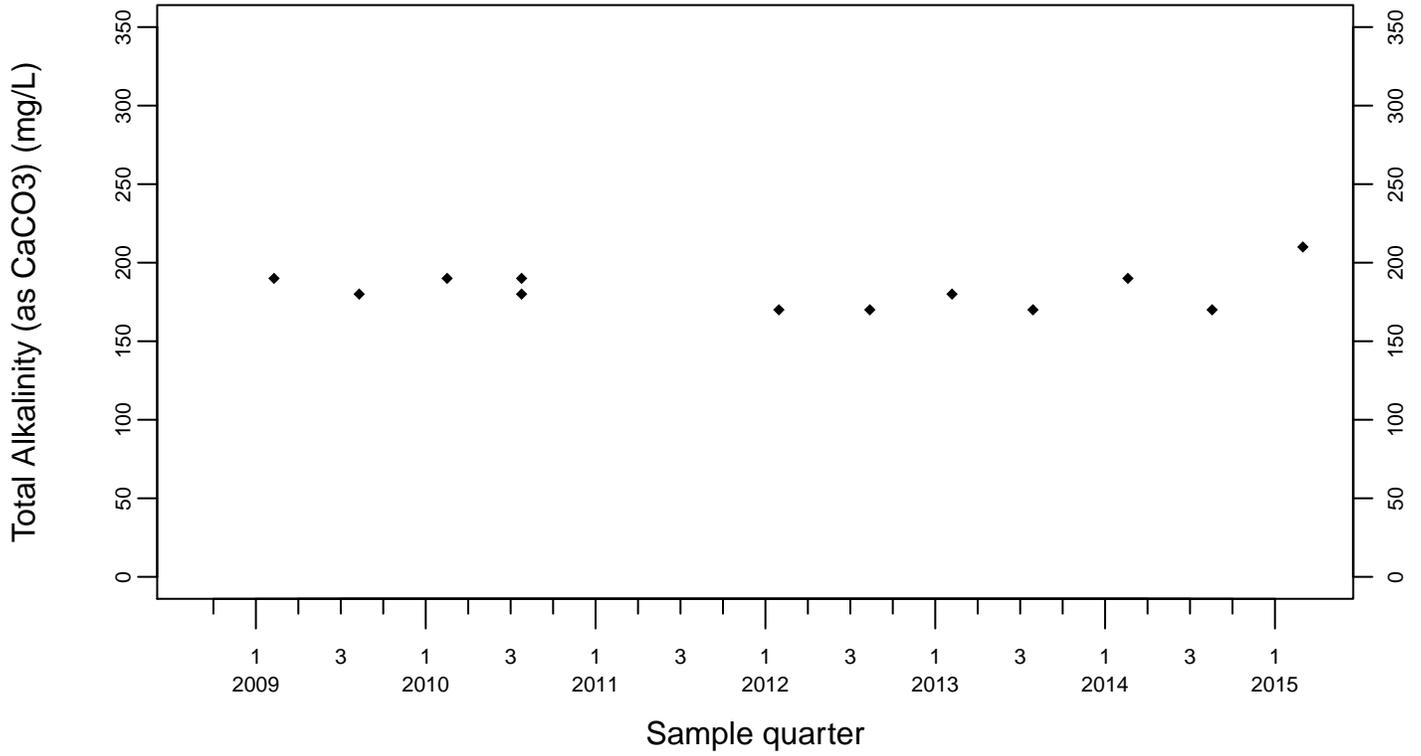
Downgradient Monitor Well W-25N-23



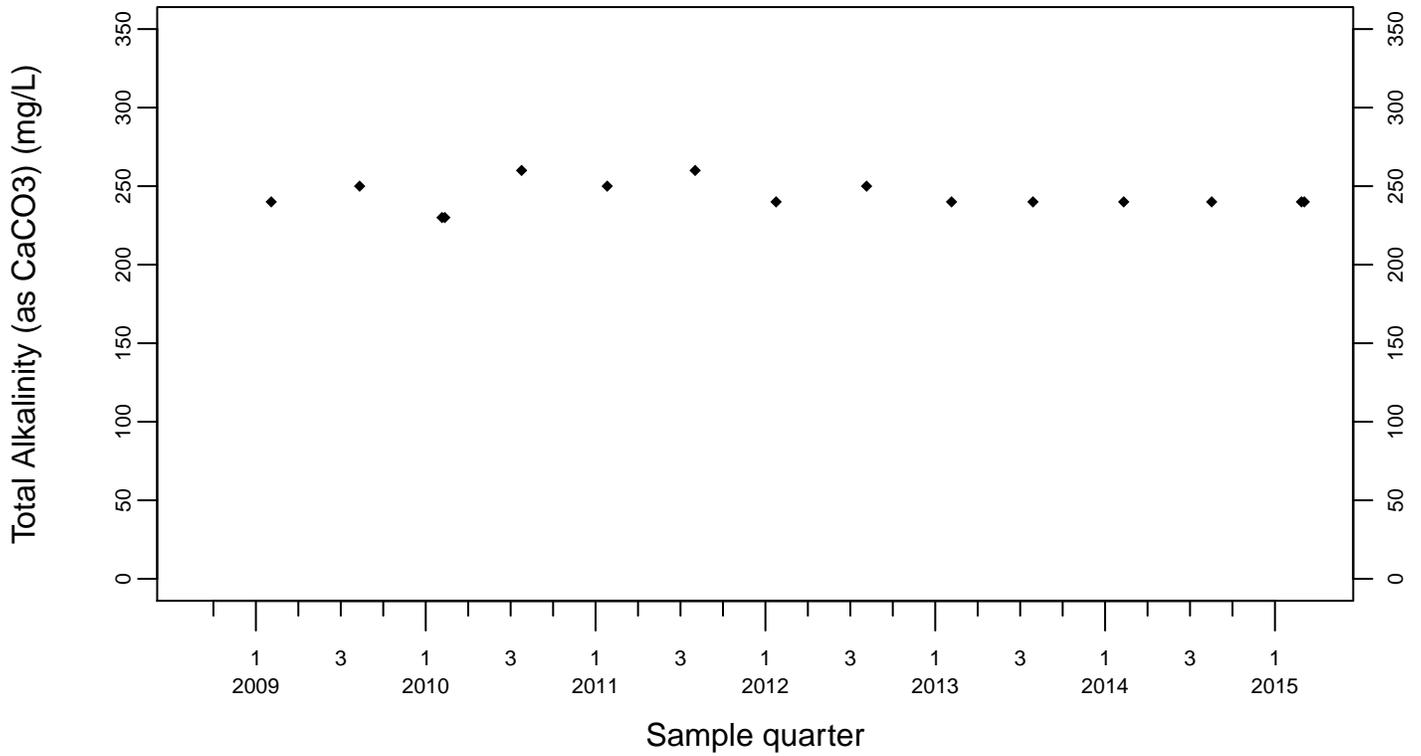
Sewage Ponds Ground Water Total Alkalinity (as CaCO3) (mg/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



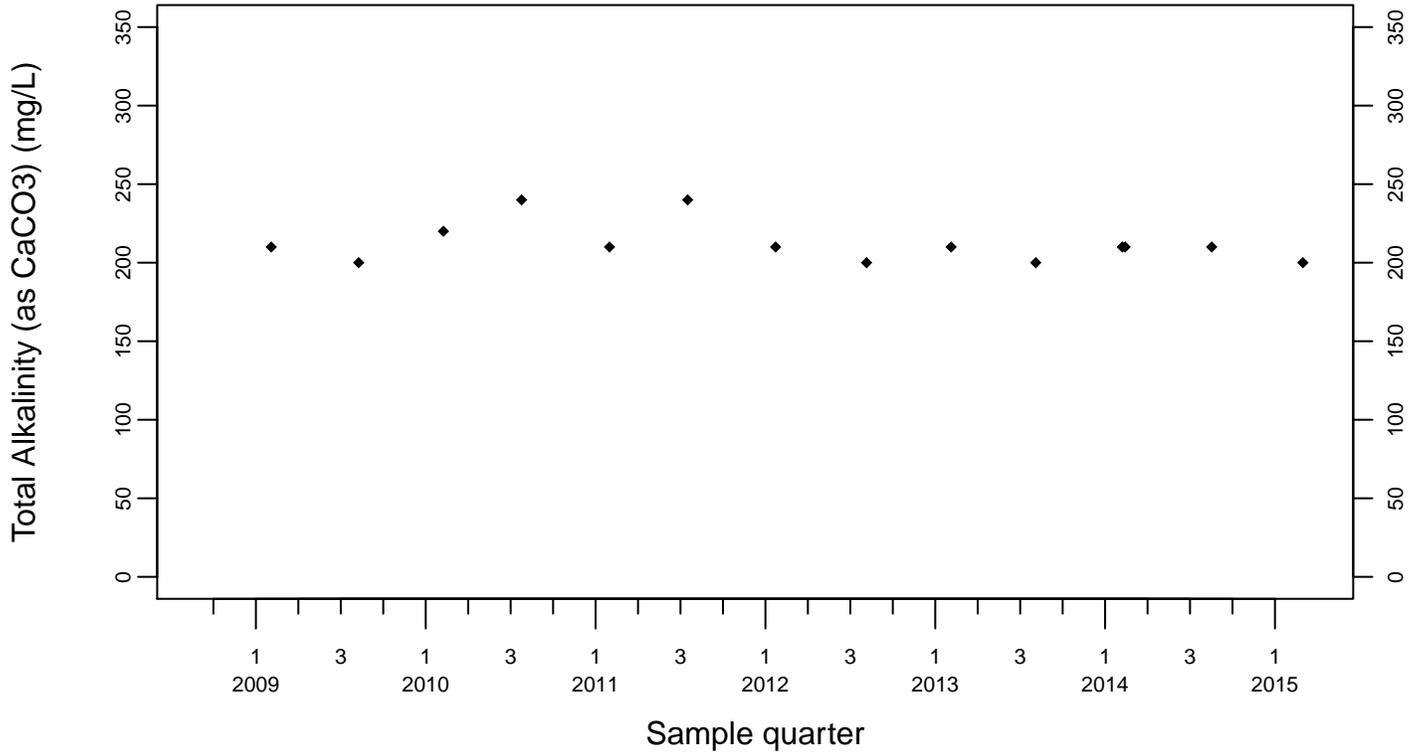
Downgradient Monitor Well W-26R-01



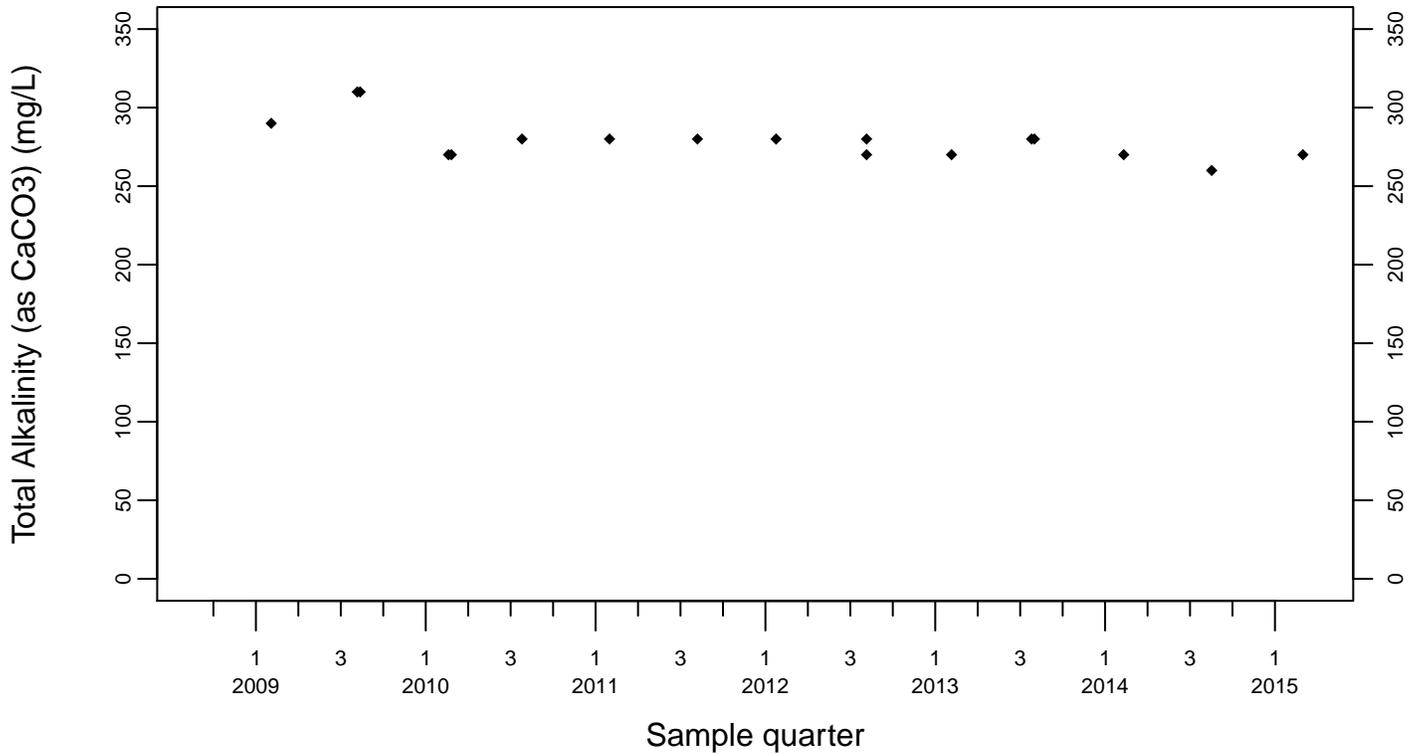
Sewage Ponds Ground Water Total Alkalinity (as CaCO3) (mg/L)

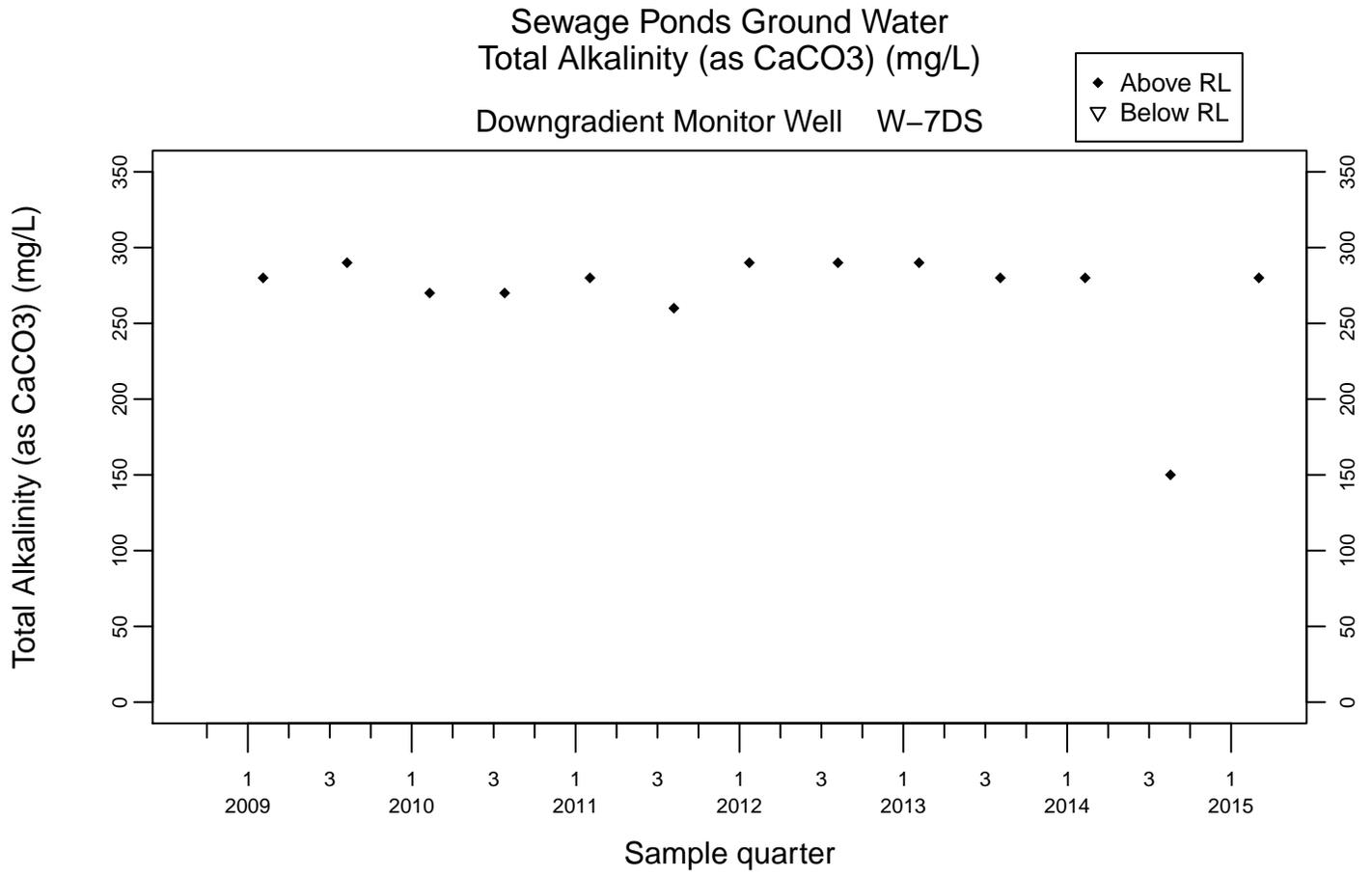
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

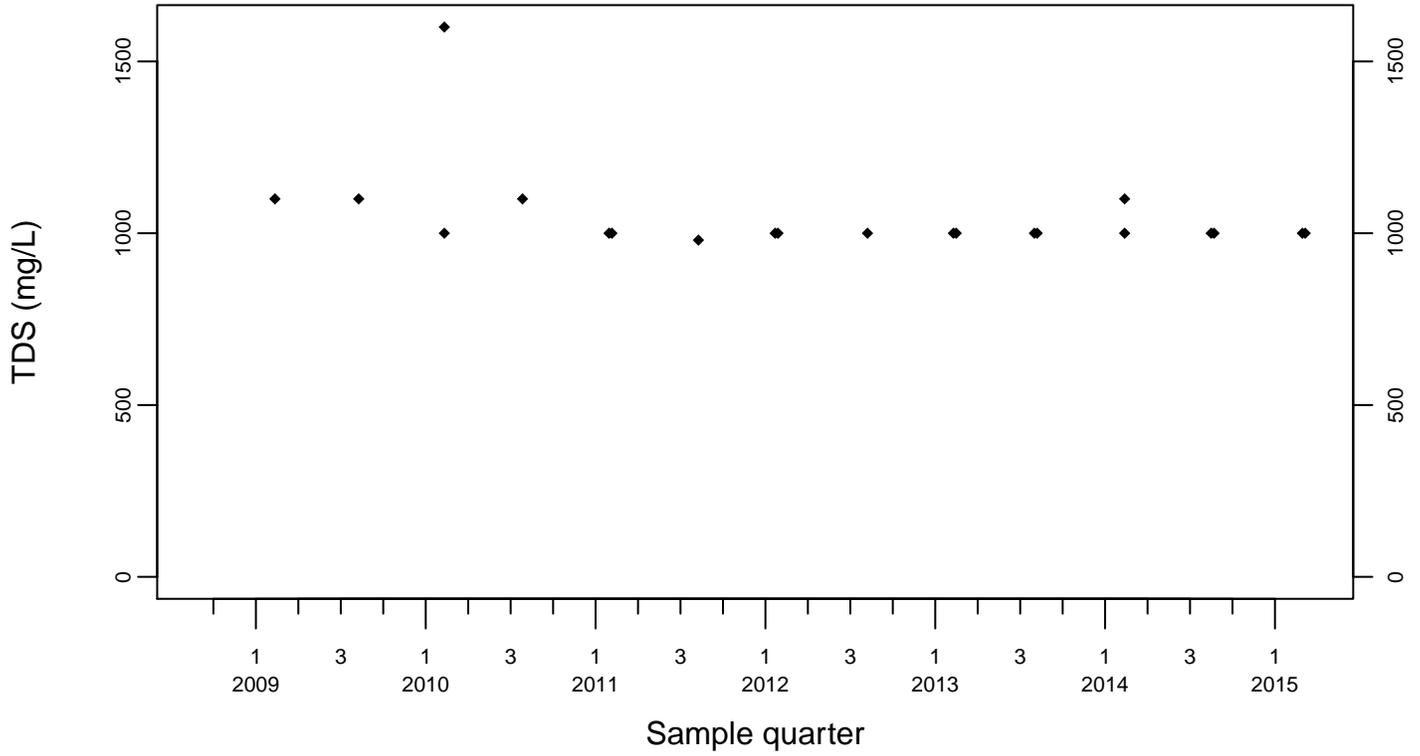




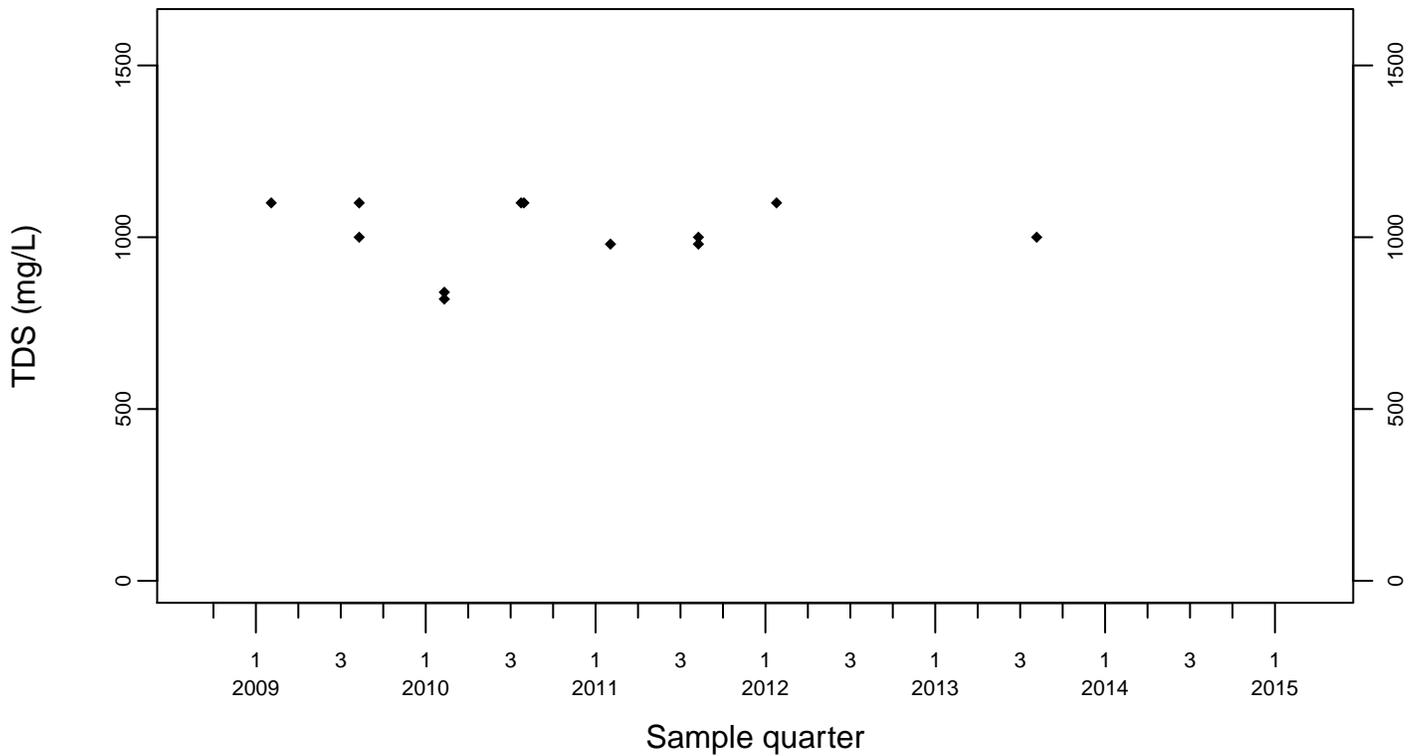
Sewage Ponds Ground Water TDS (mg/L)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL



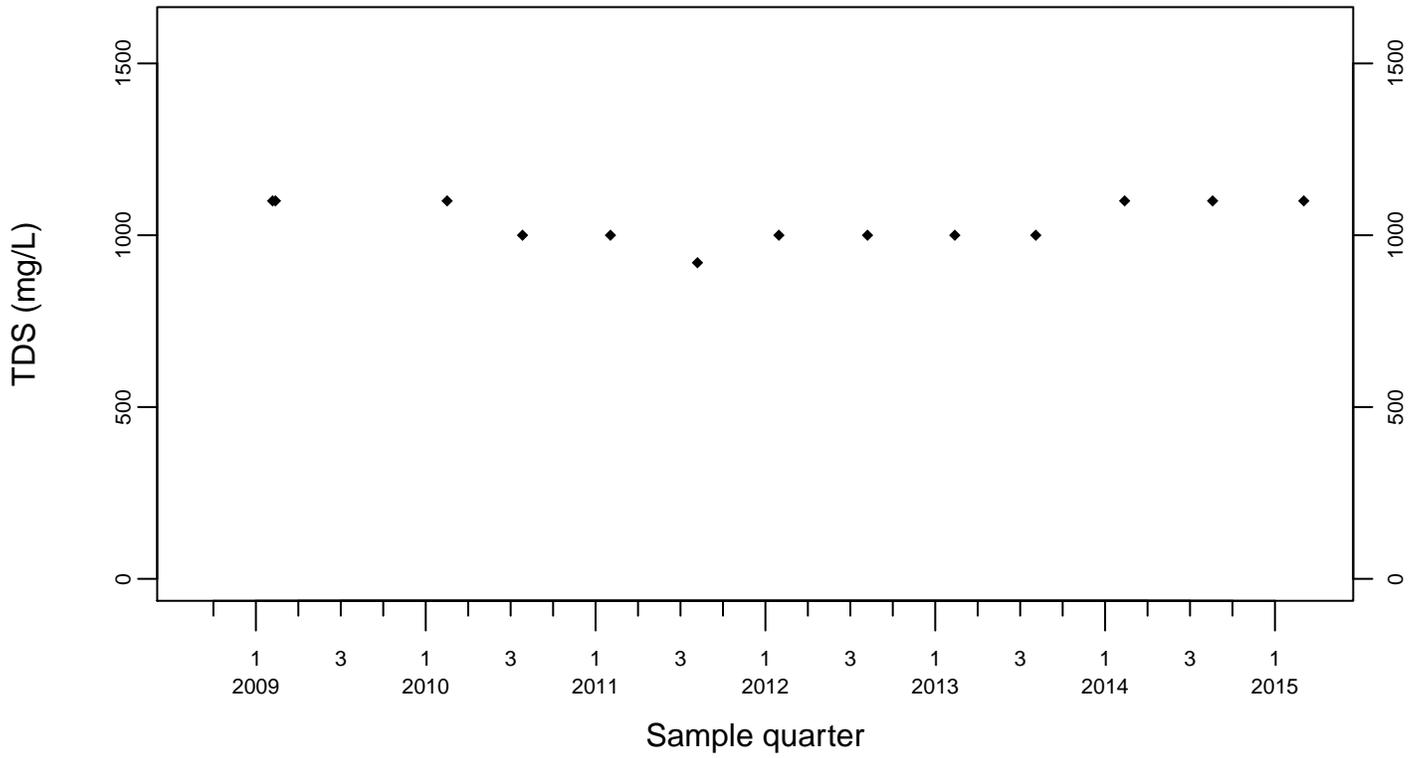
Upgradient Monitor Well W-7PS



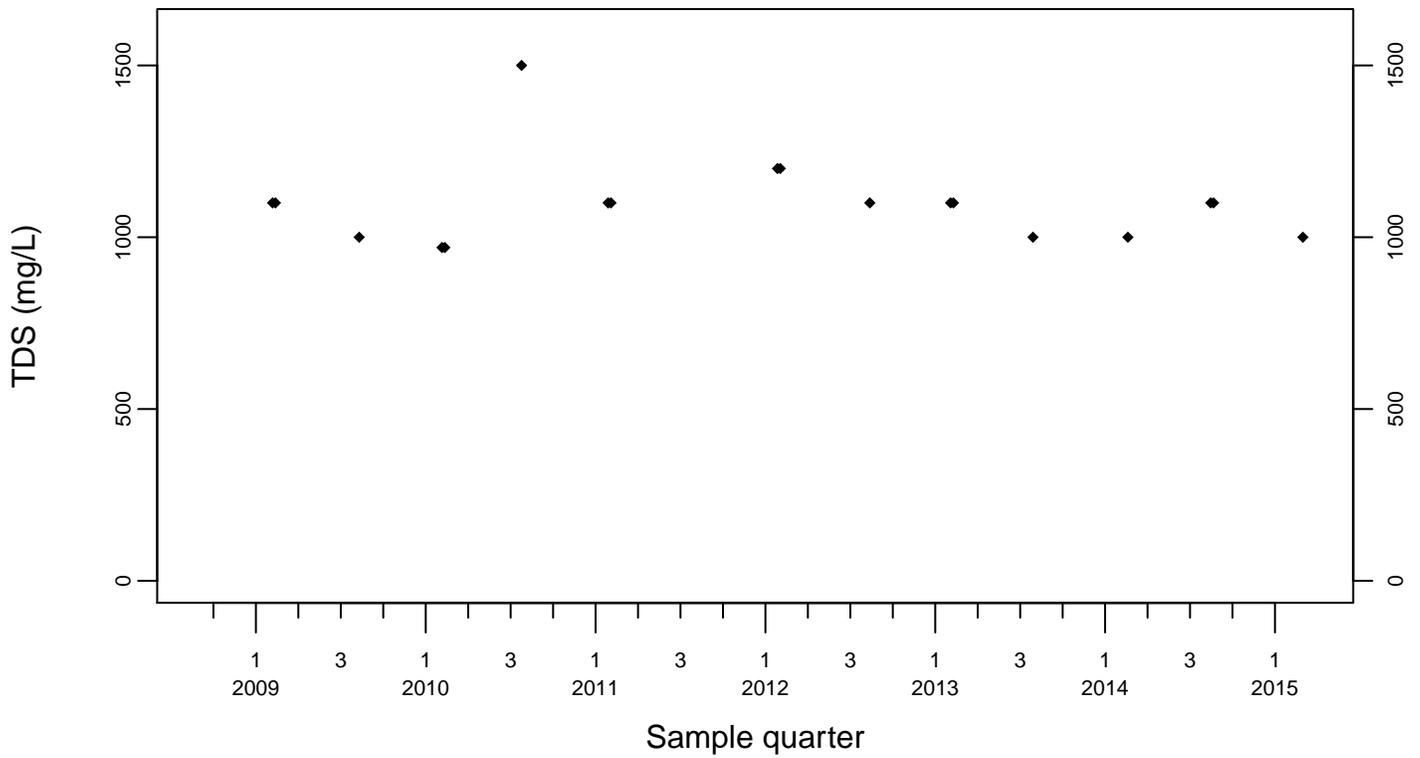
Sewage Ponds Ground Water TDS (mg/L)

Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL



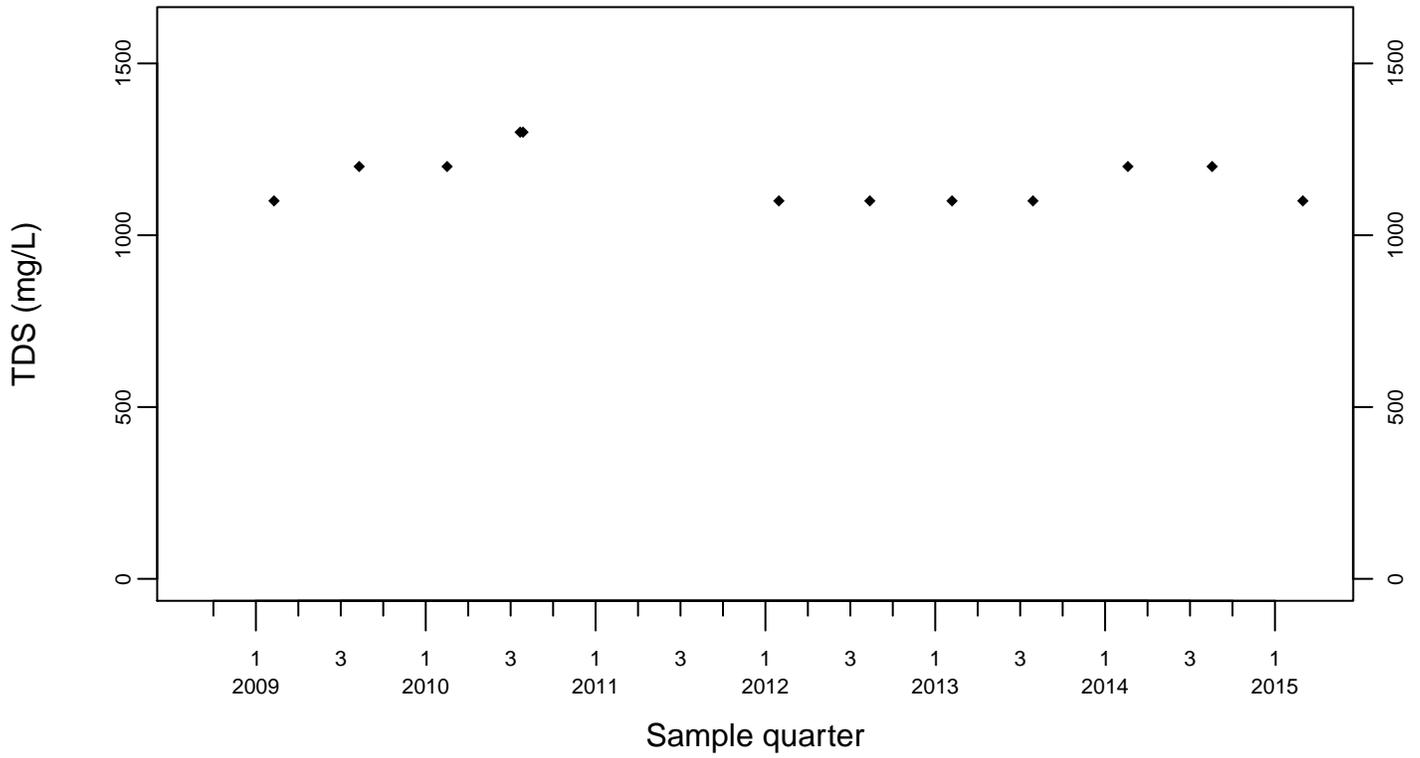
Downgradient Monitor Well W-25N-23



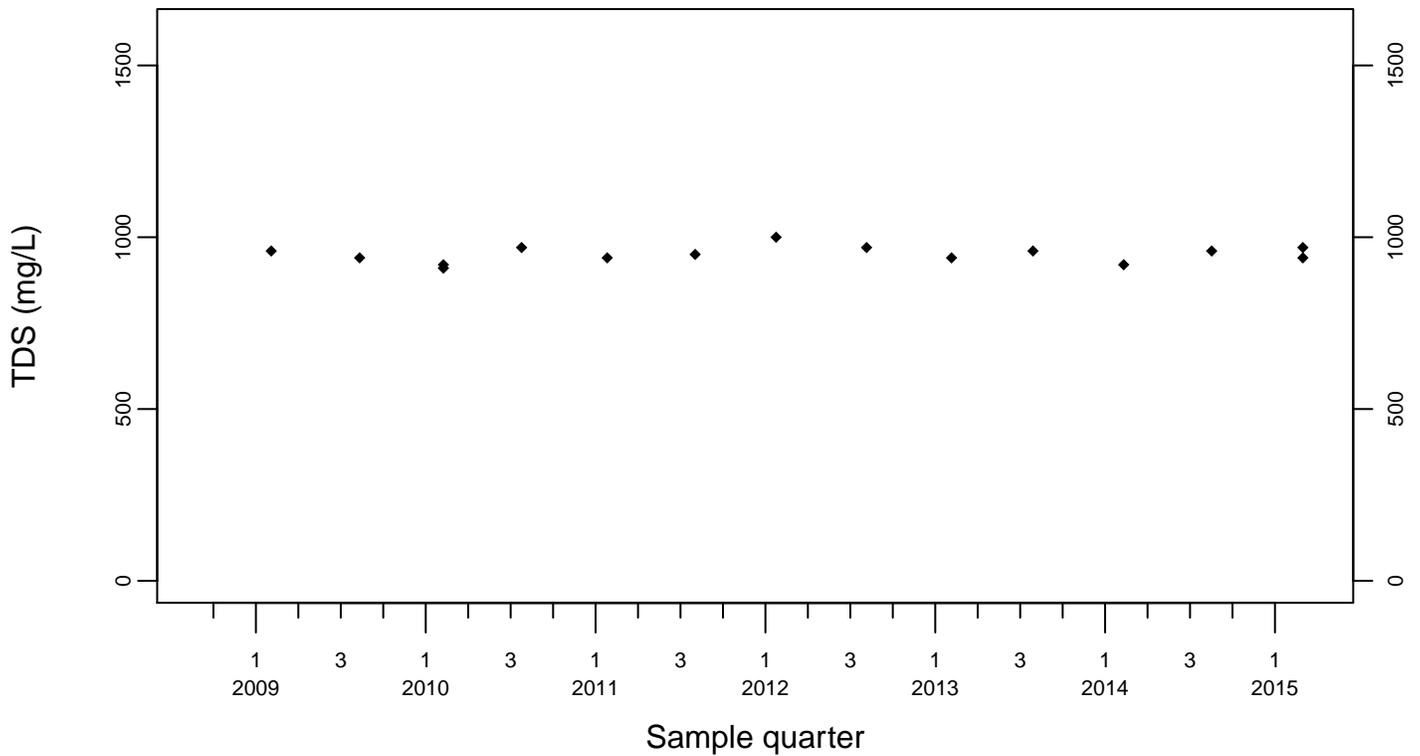
Sewage Ponds Ground Water TDS (mg/L)

Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL



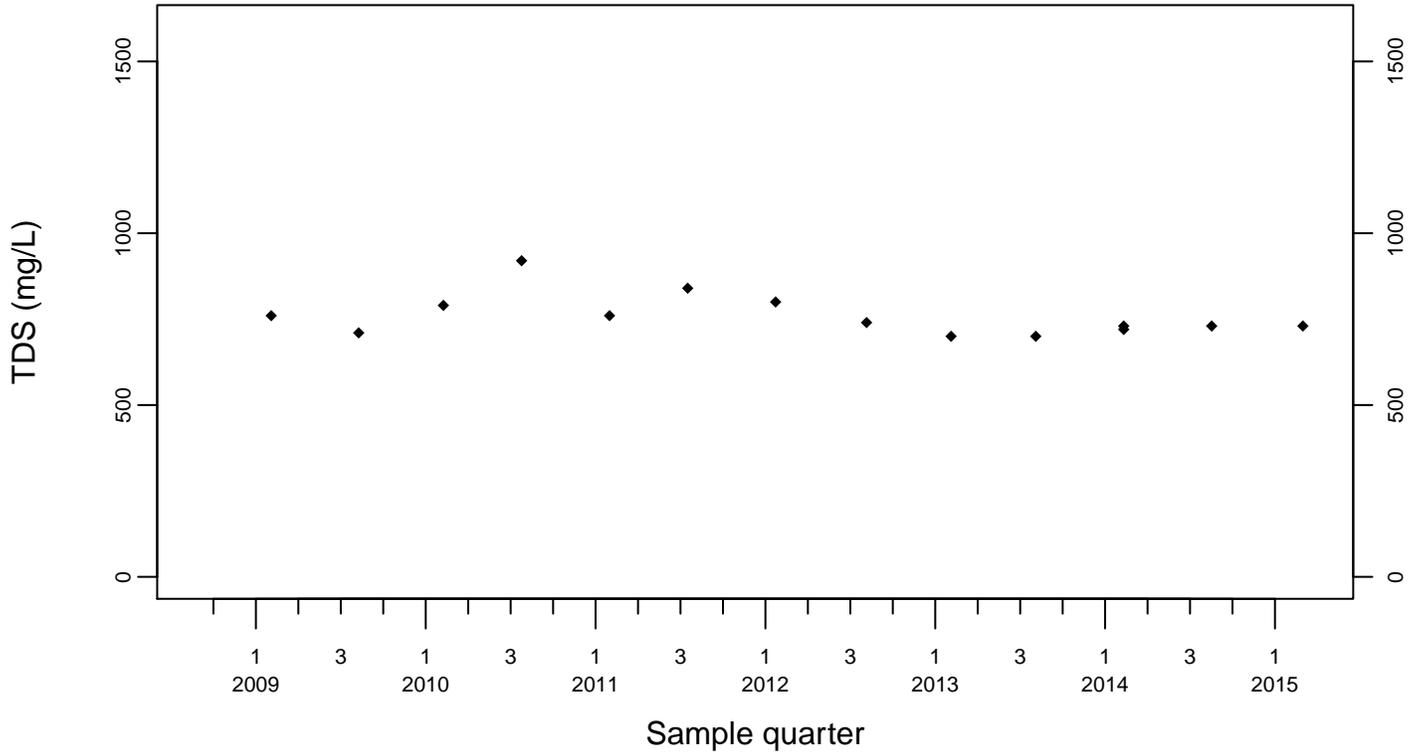
Downgradient Monitor Well W-26R-01



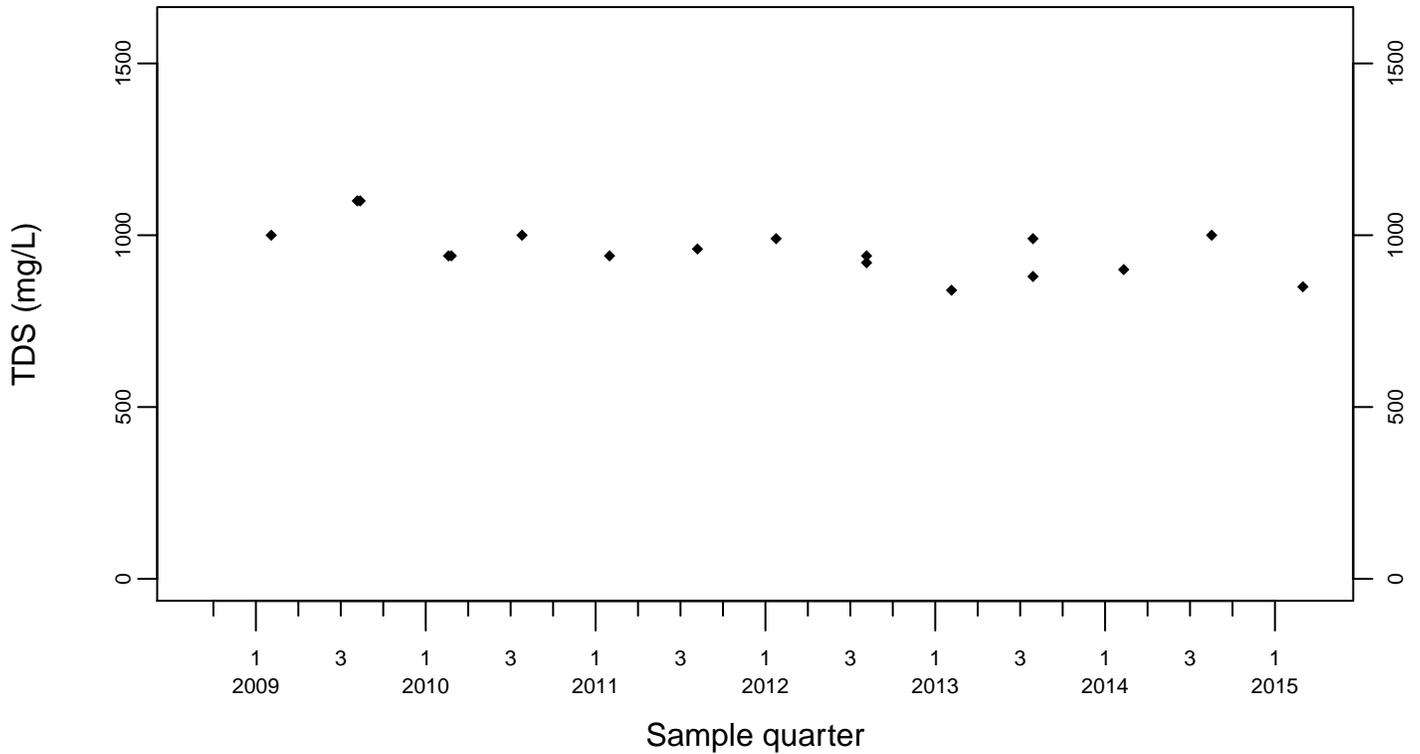
Sewage Ponds Ground Water TDS (mg/L)

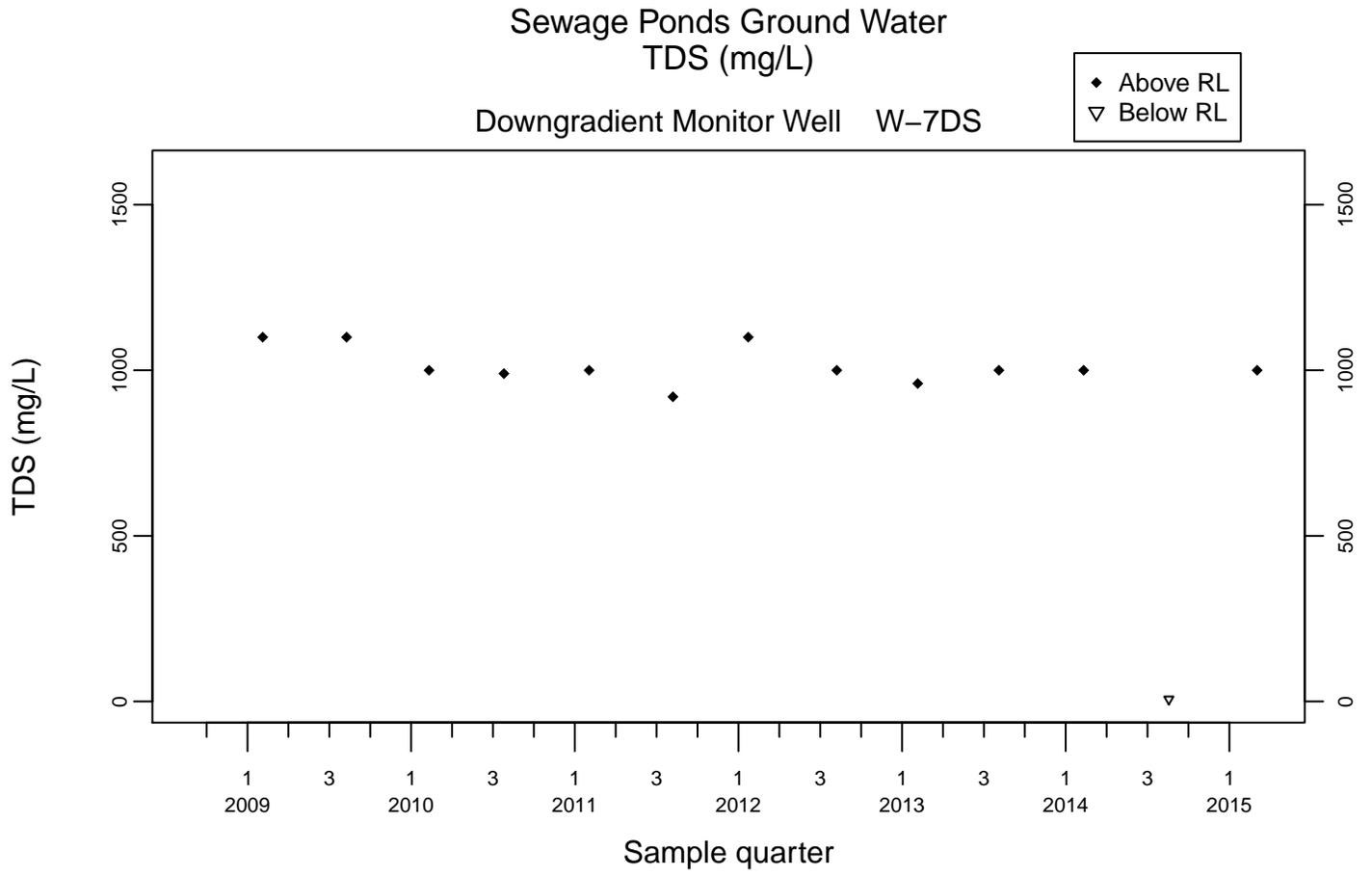
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

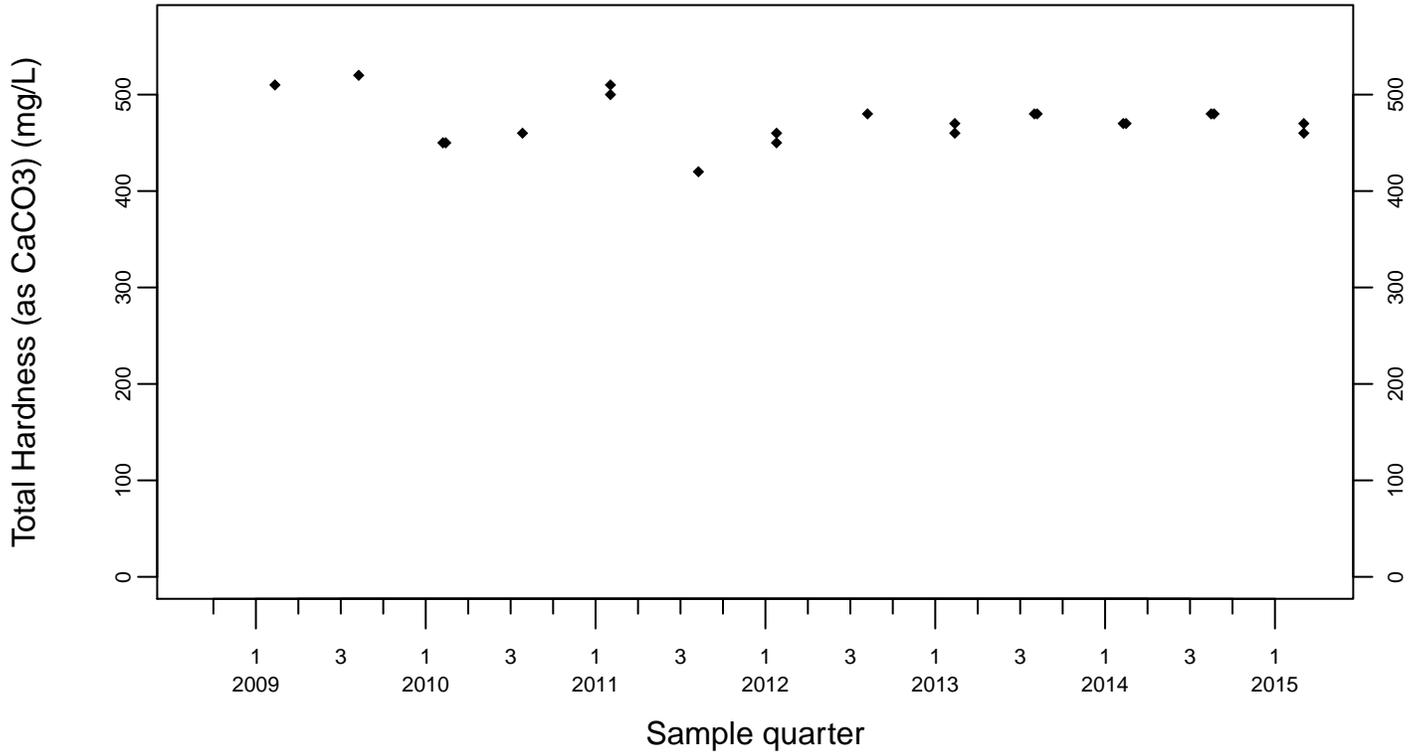




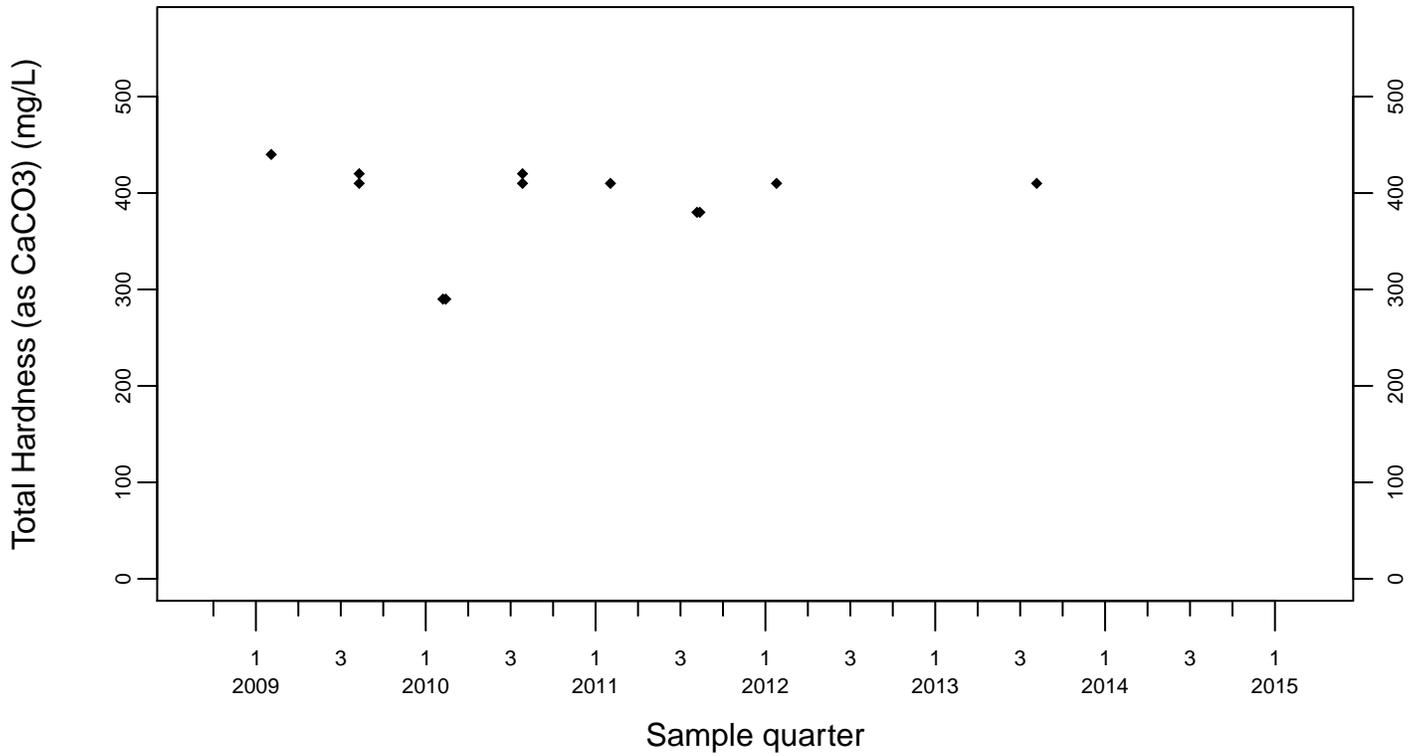
Sewage Ponds Ground Water Total Hardness (as CaCO₃) (mg/L)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL

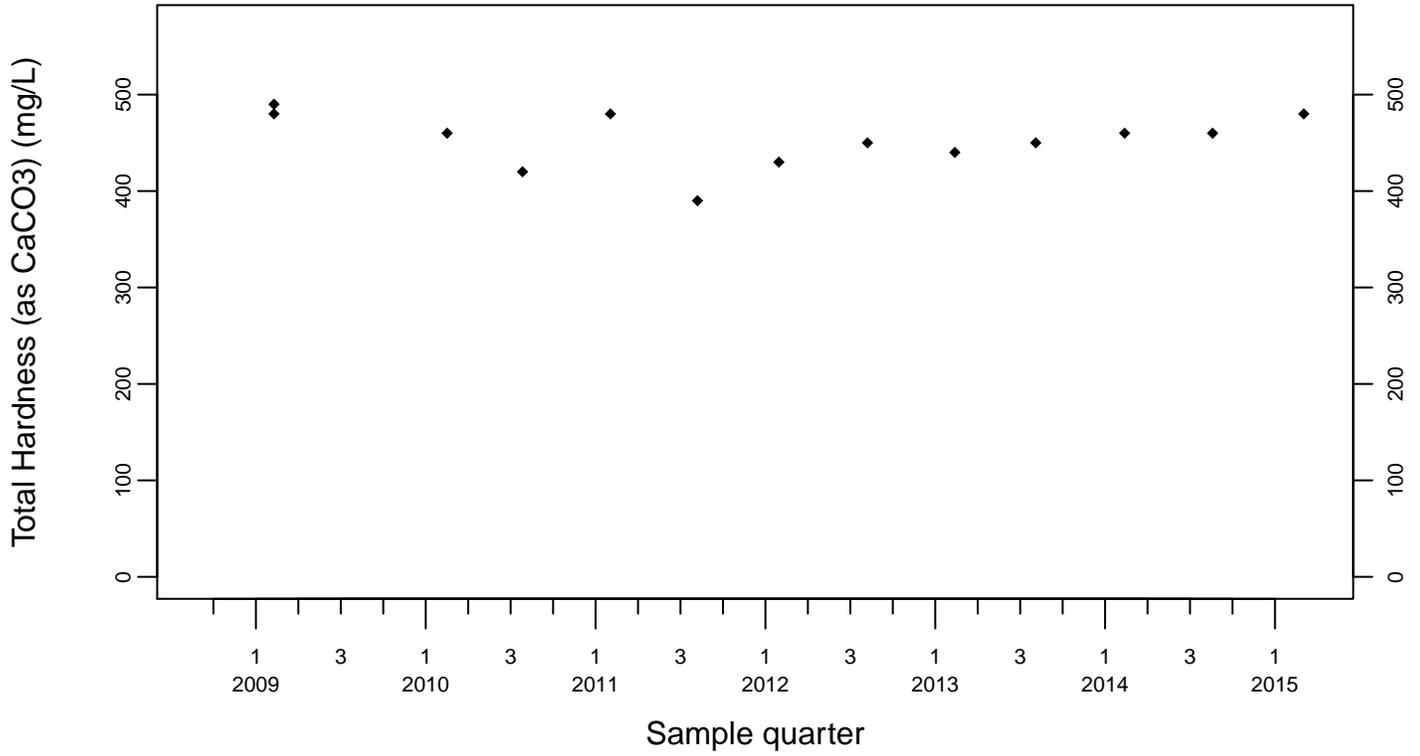


Upgradient Monitor Well W-7PS

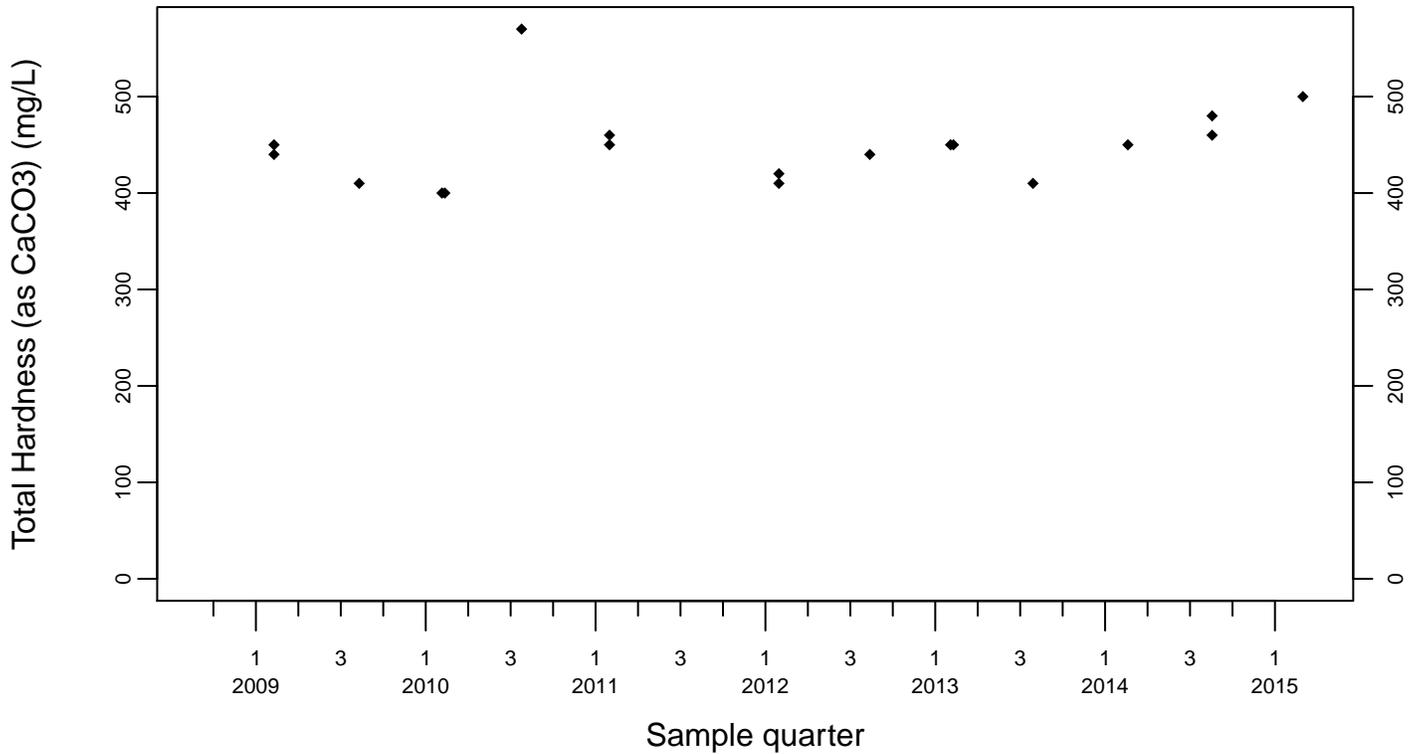


Sewage Ponds Ground Water
Total Hardness (as CaCO₃) (mg/L)
Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL

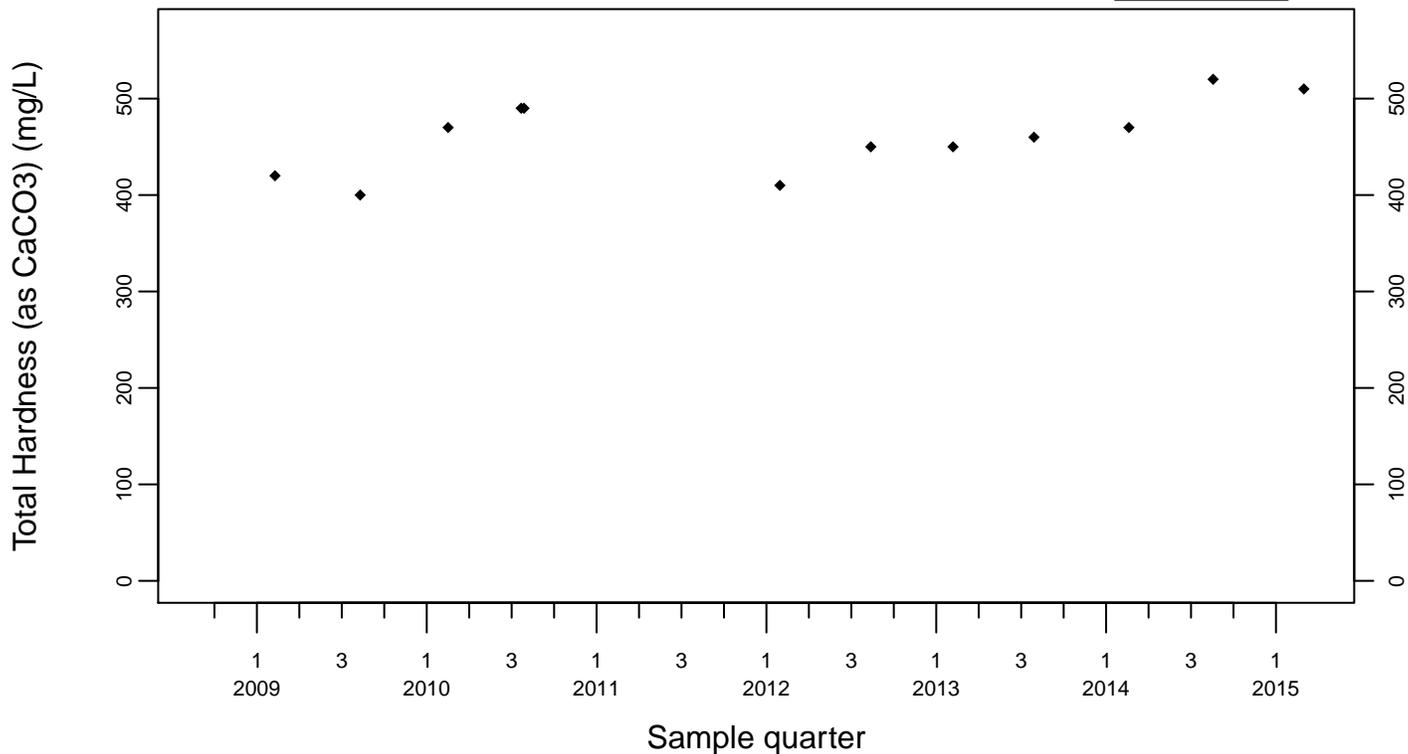


Downgradient Monitor Well W-25N-23

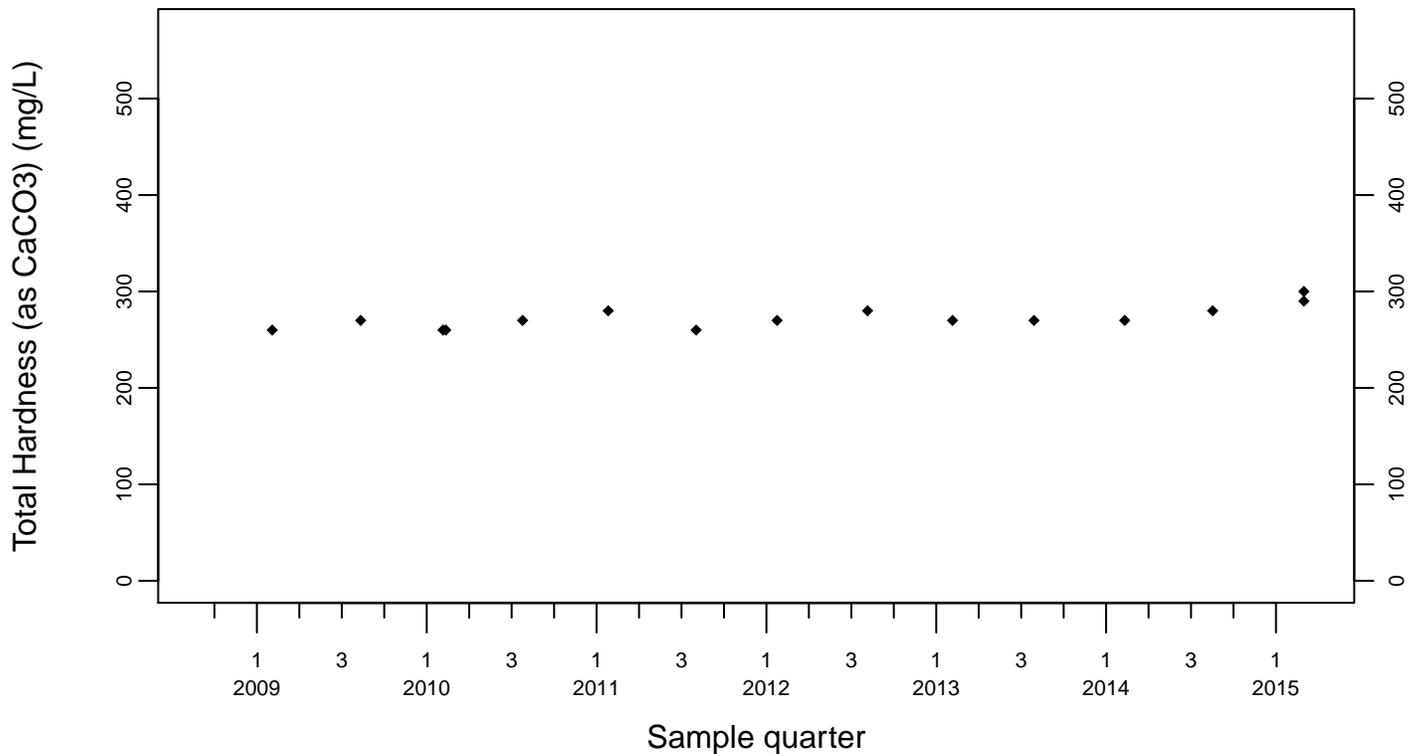


Sewage Ponds Ground Water Total Hardness (as CaCO₃) (mg/L) Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL

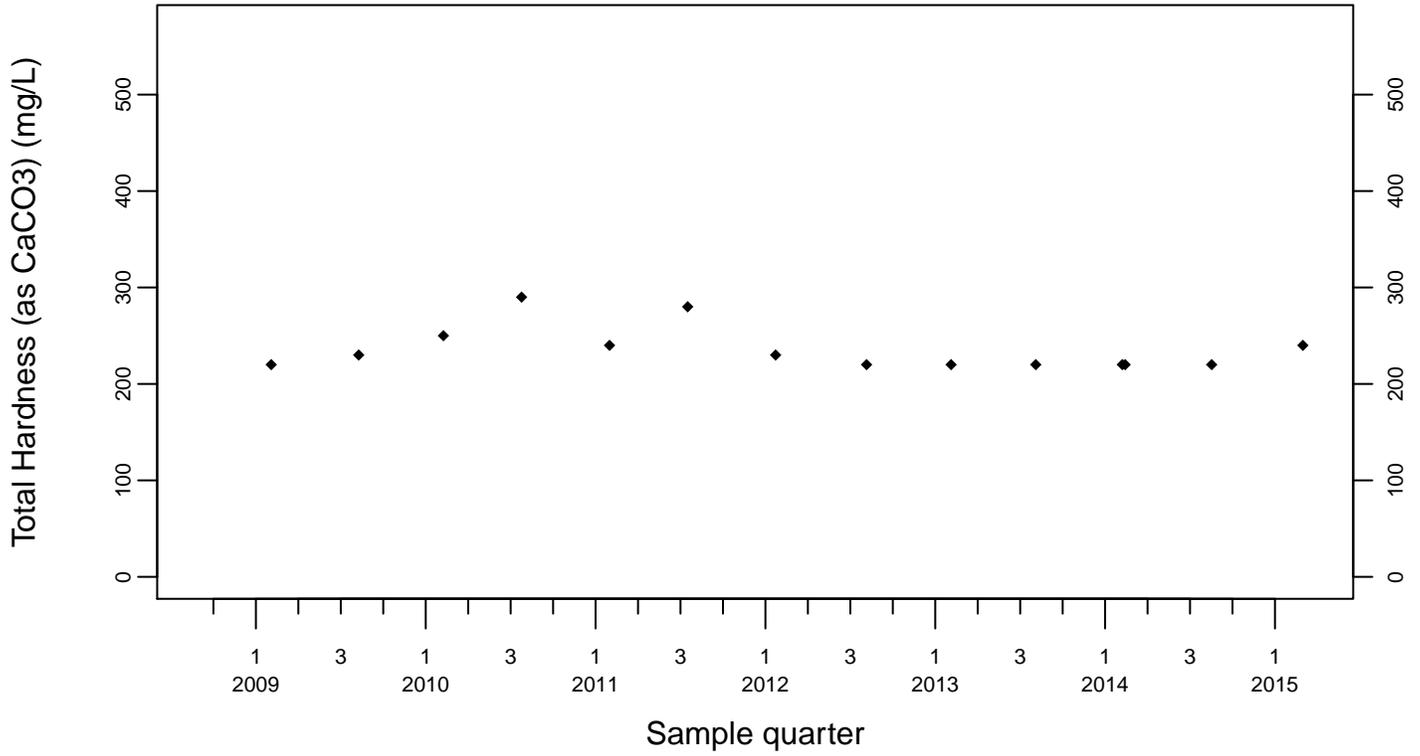


Downgradient Monitor Well W-26R-01

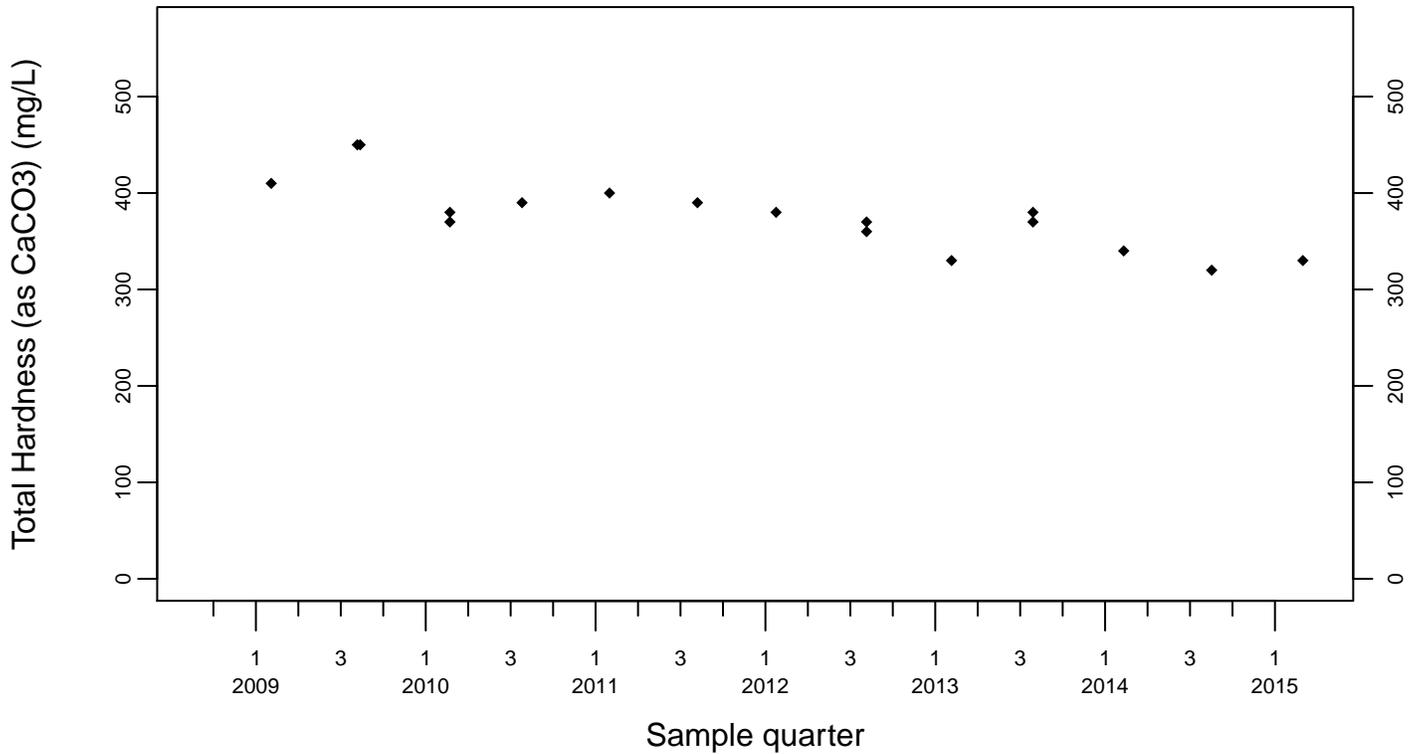


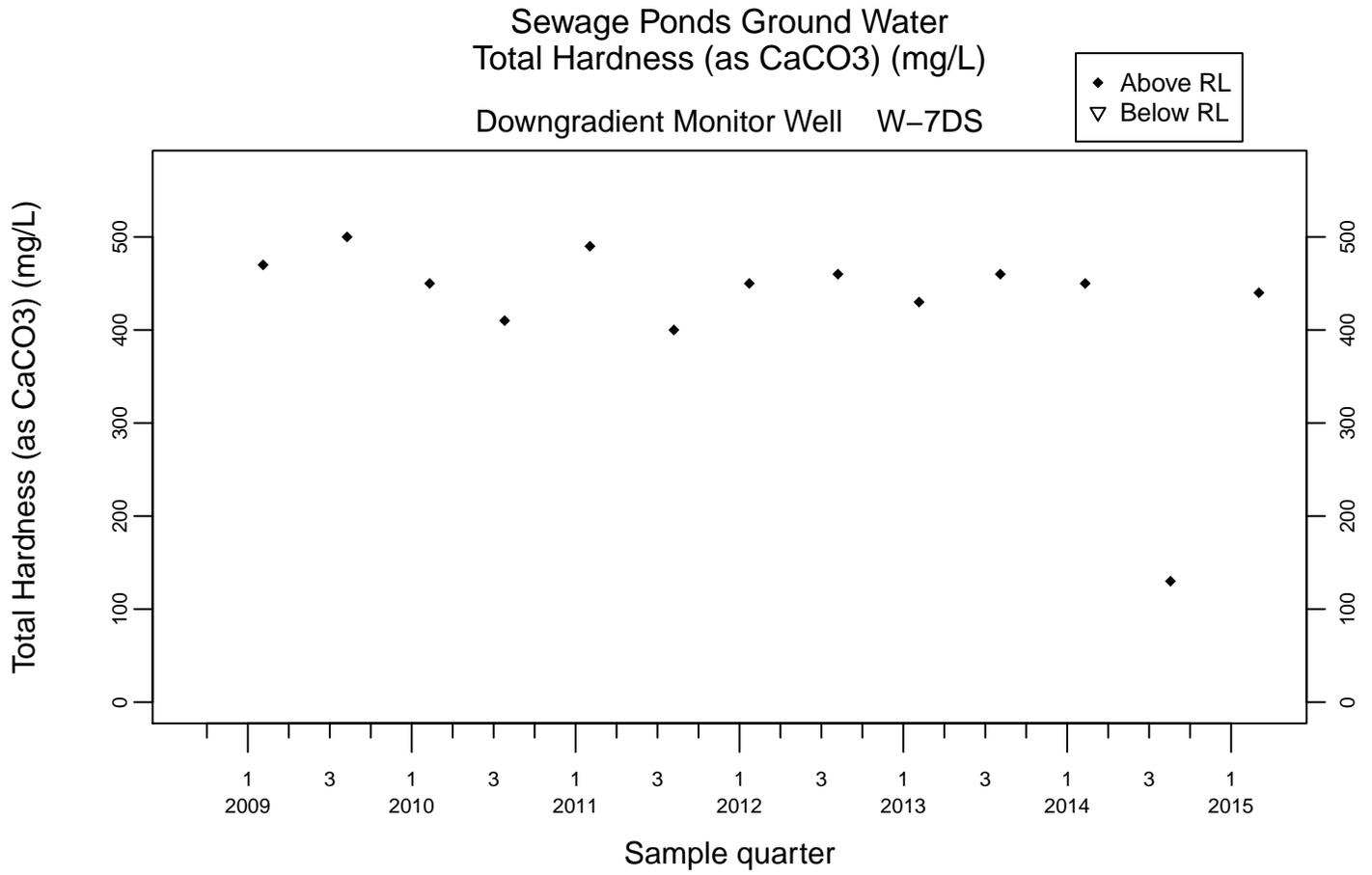
Sewage Ponds Ground Water
Total Hardness (as CaCO₃) (mg/L)
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11

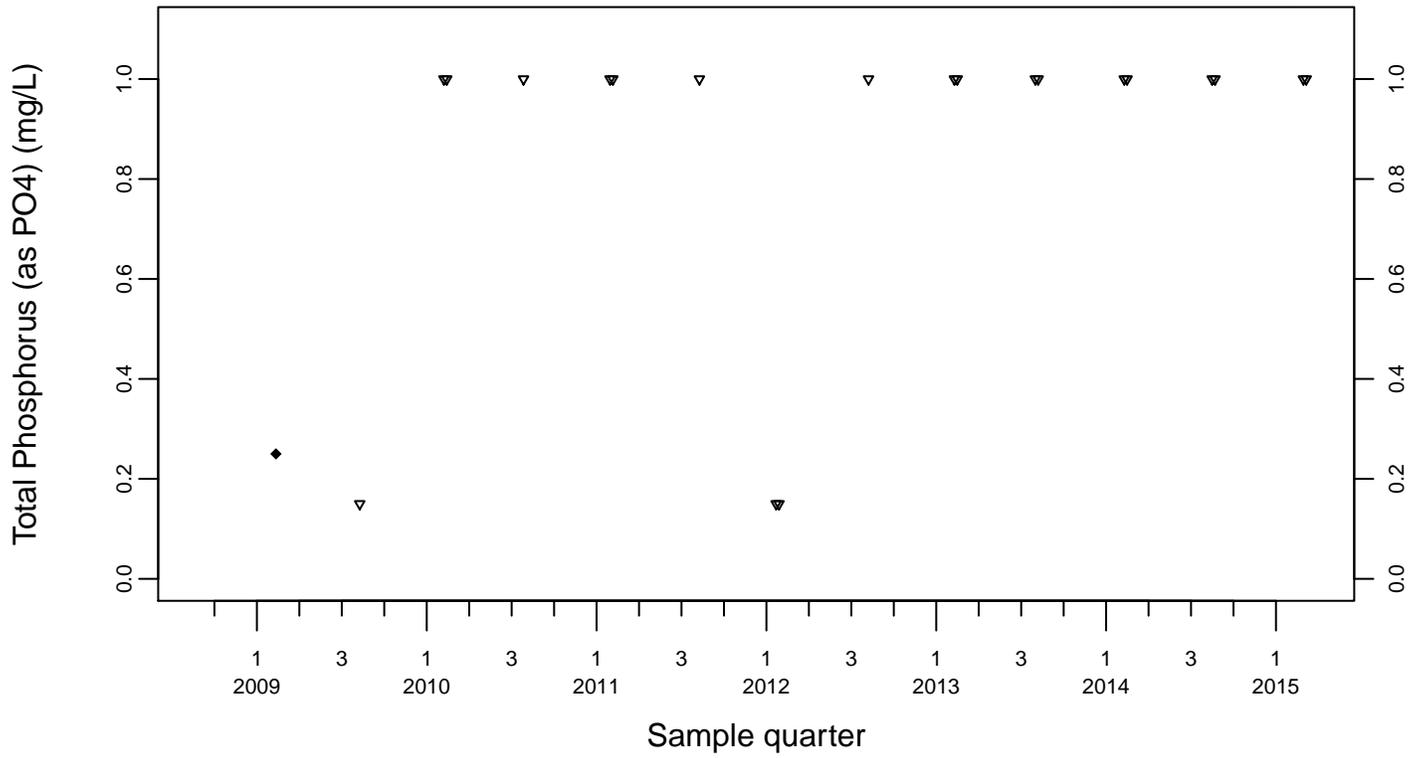




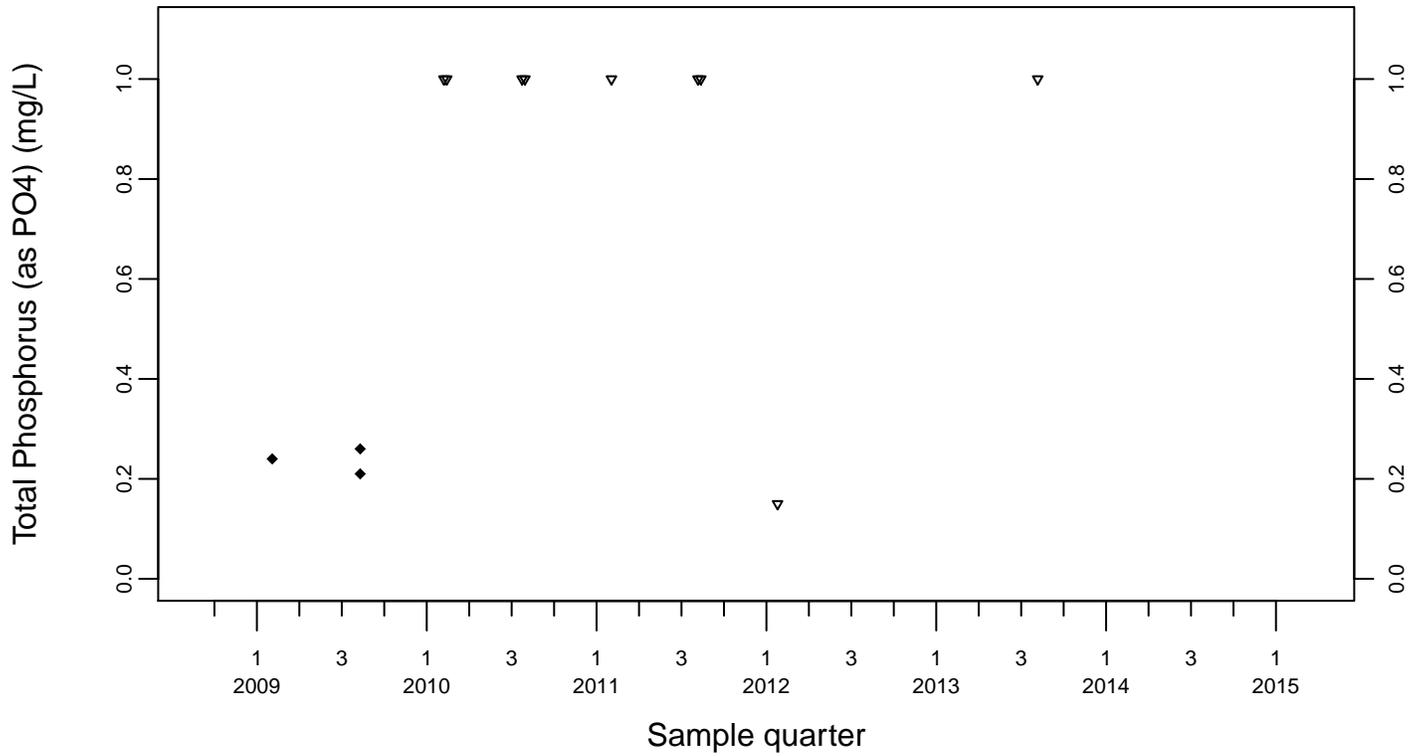
Sewage Ponds Ground Water Total Phosphorus (as PO4) (mg/L)

Upgradient Monitor Well W-7ES

◆ Above RL
▽ Below RL

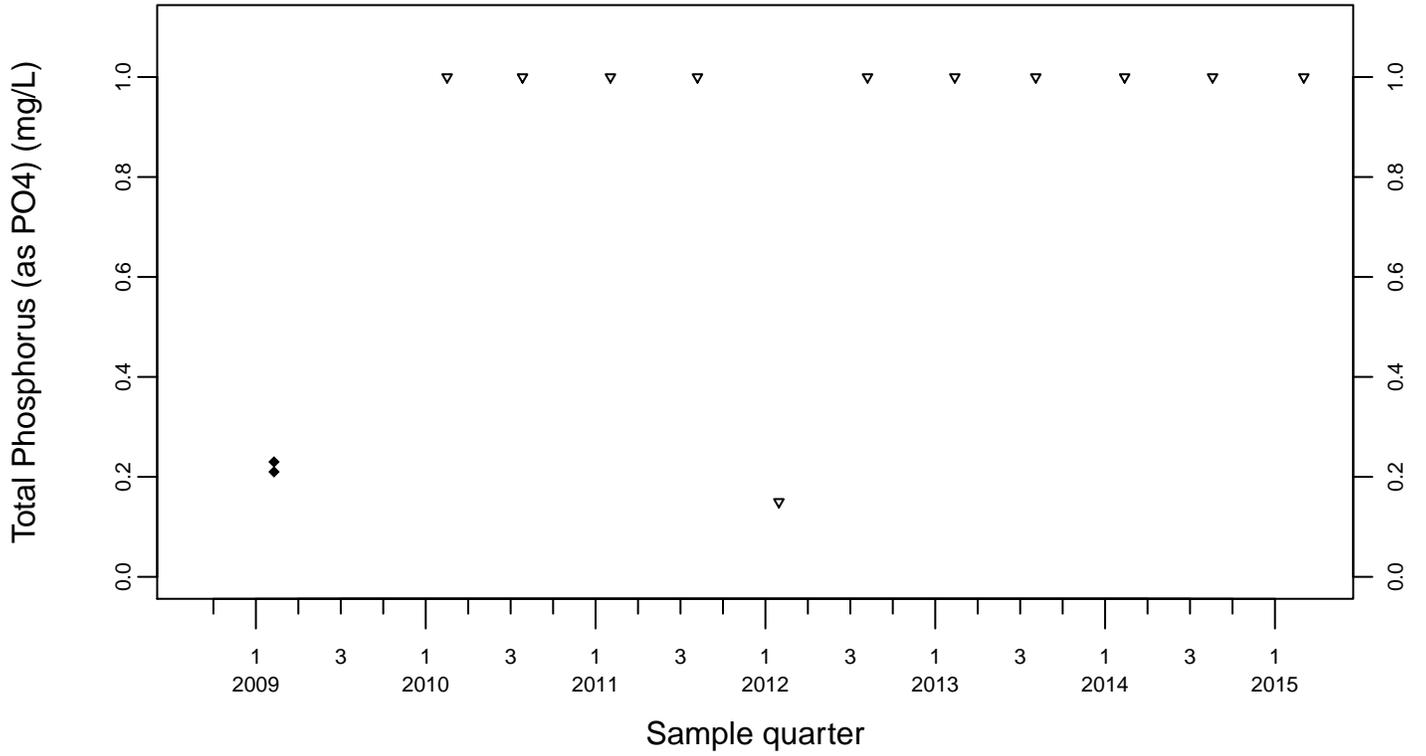


Upgradient Monitor Well W-7PS

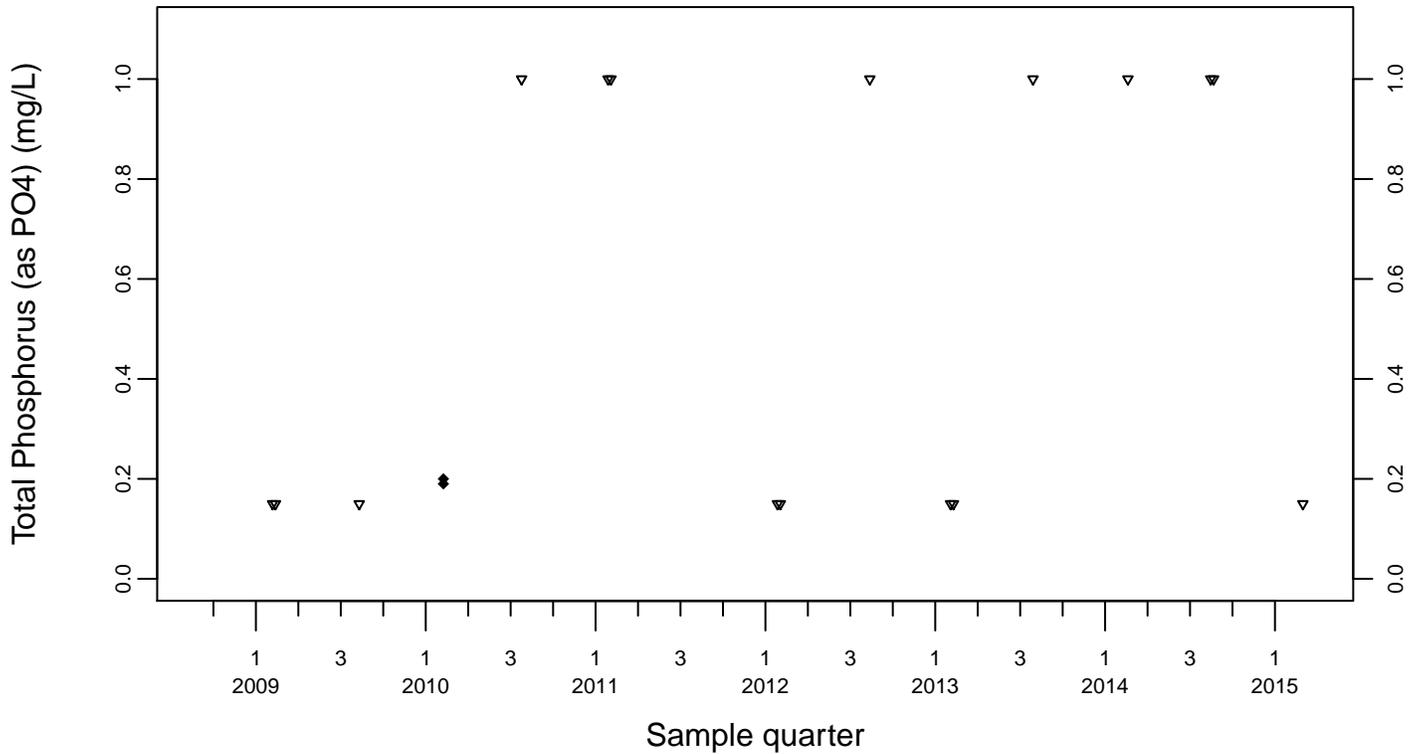


Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)
Crossgradient Monitor Well W-35A-04

◆ Above RL
▽ Below RL

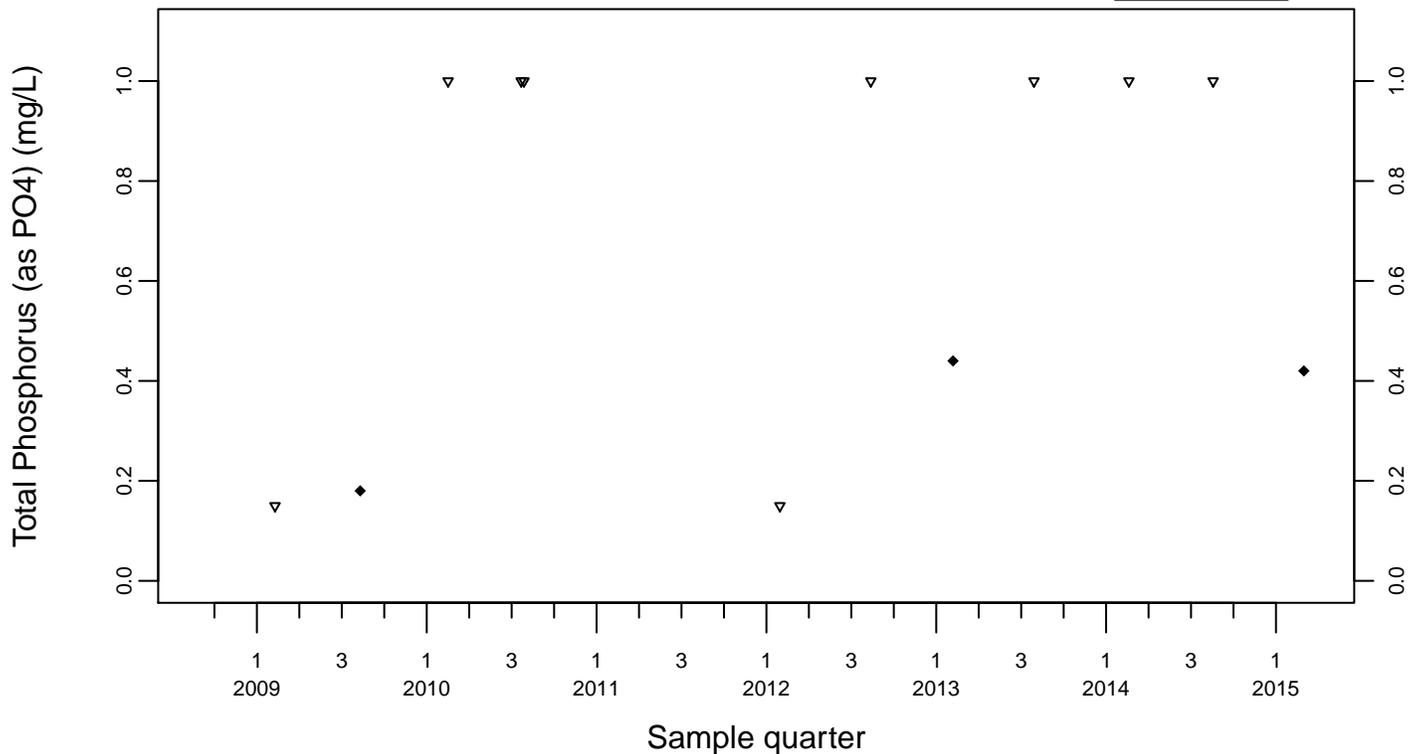


Downgradient Monitor Well W-25N-23

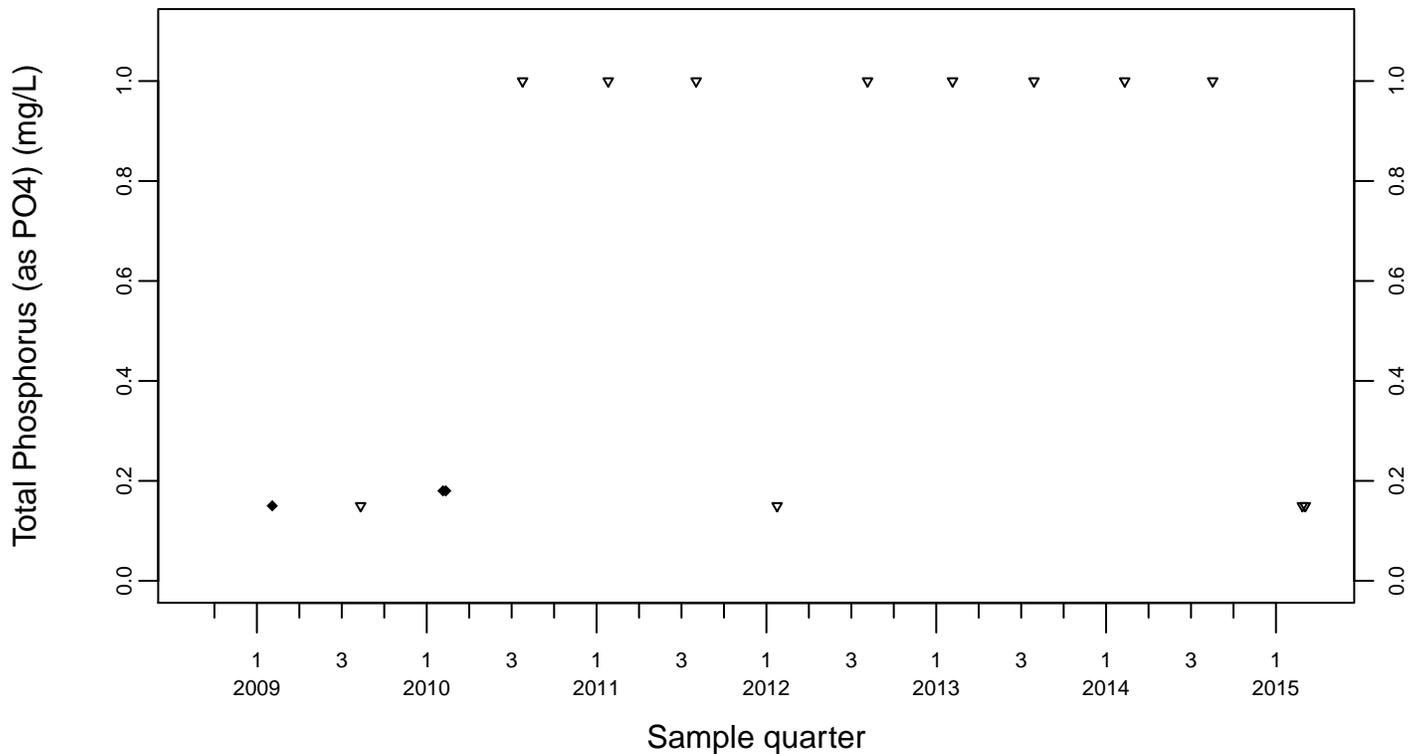


Sewage Ponds Ground Water Total Phosphorus (as PO4) (mg/L) Downgradient Monitor Well W-25N-22

◆ Above RL
▽ Below RL

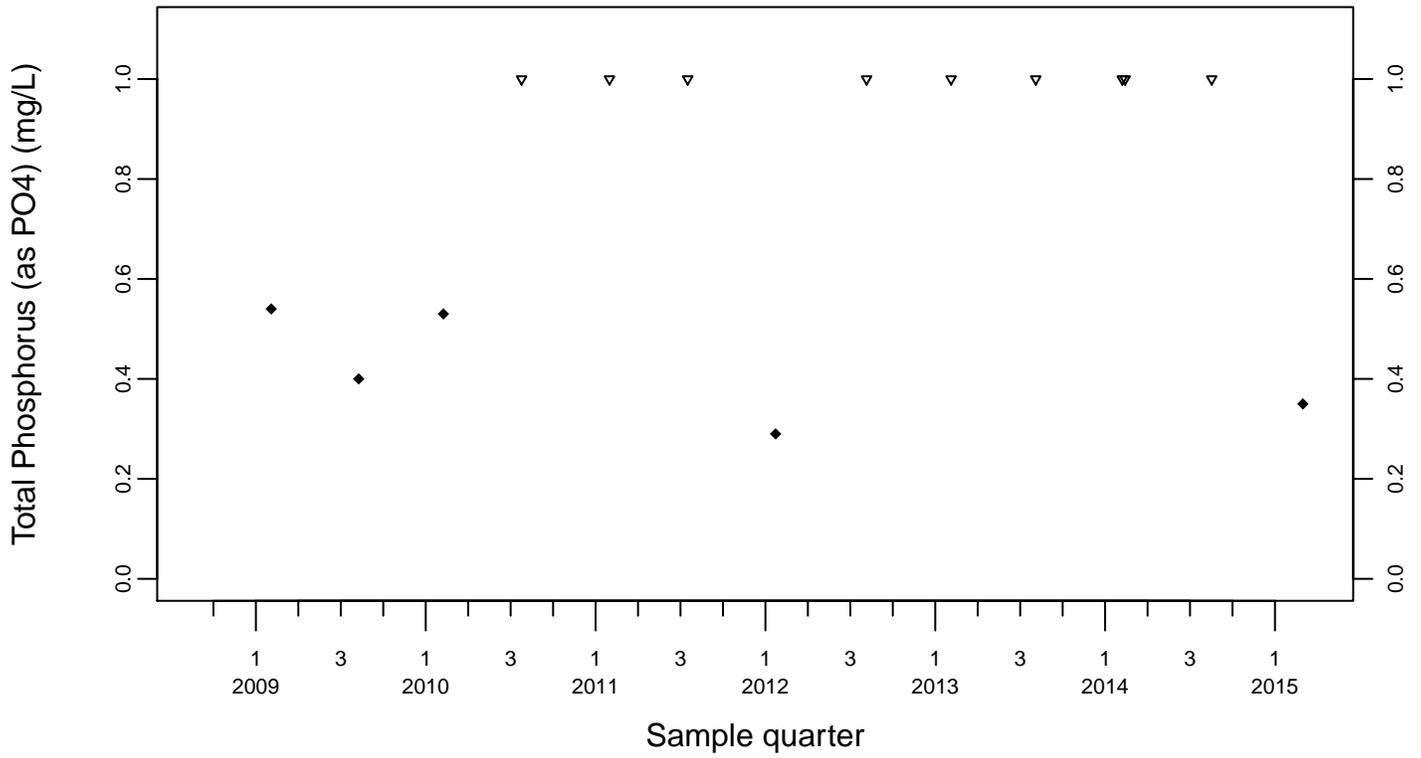


Downgradient Monitor Well W-26R-01

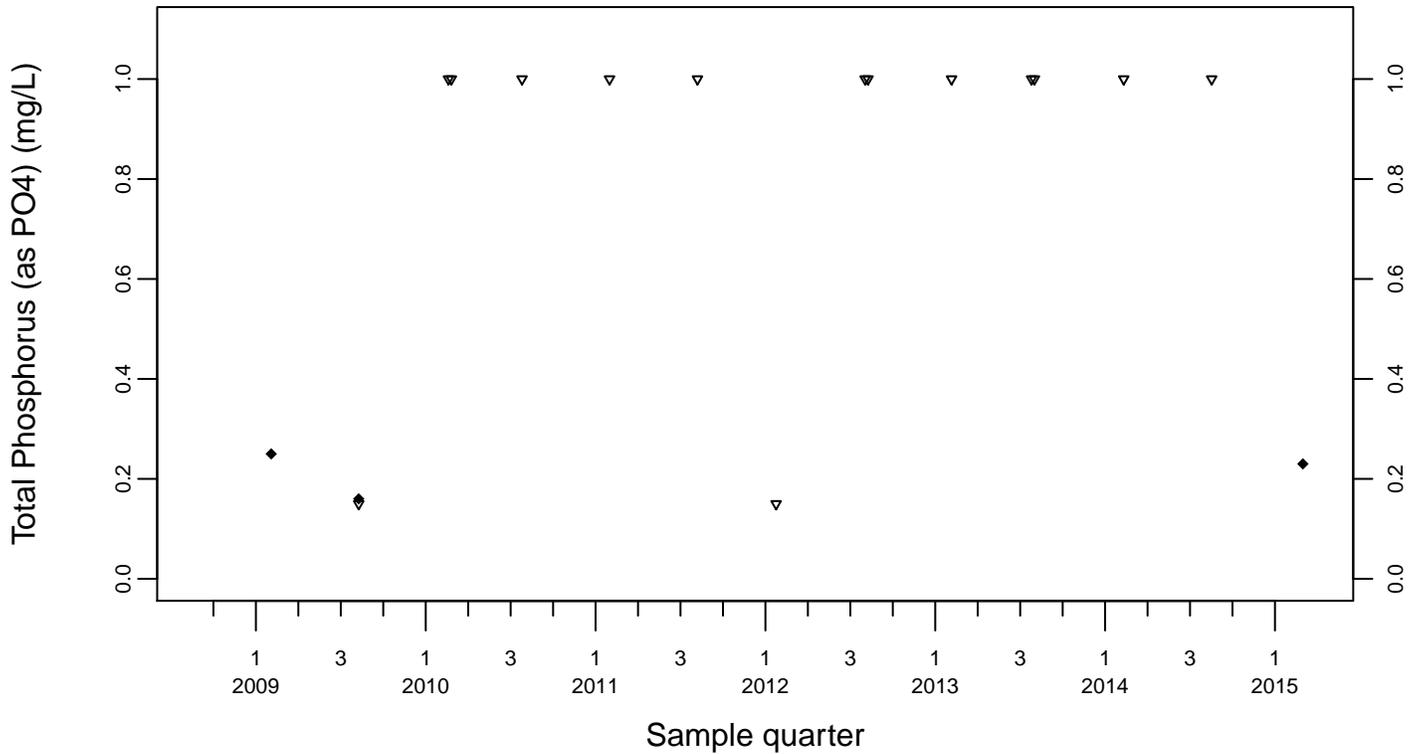


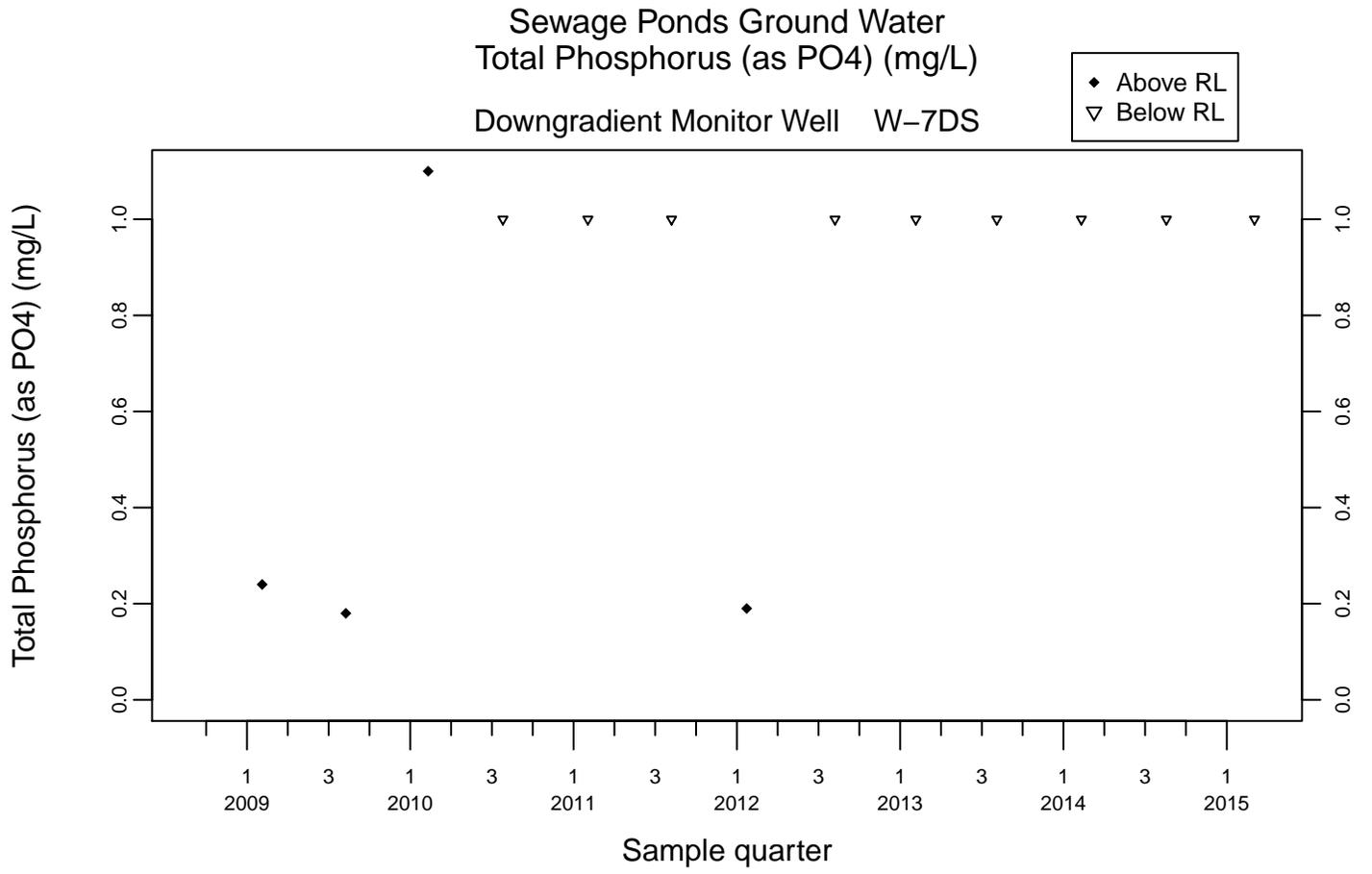
Sewage Ponds Ground Water
Total Phosphorus (as PO4) (mg/L)
Downgradient Monitor Well W-26R-05

◆ Above RL
▽ Below RL



Downgradient Monitor Well W-26R-11





Appendix B

Cooling Tower Network

**Cooling Tower Blowdown Effluent Monitoring Network
with Discharges to Percolation Pits
(Bldgs. 801, 812, 817A, 825, 826, 827A, and 851)
and Cooling Tower Percolation Pit Inspection Forms**

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015

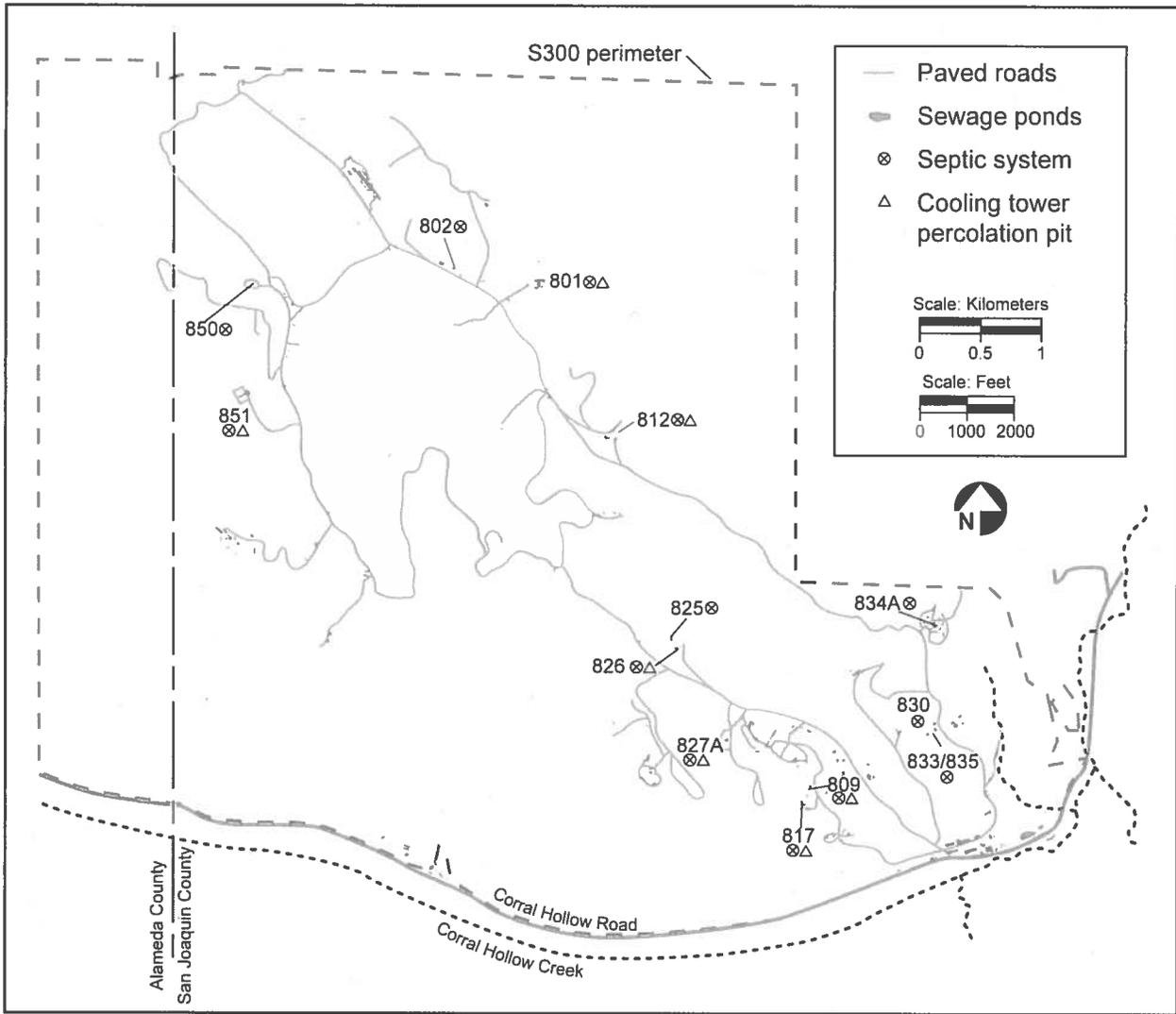


Figure B.1. Location of Site 300 cooling towers.

*LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015*

Table B-1. Site 300 cooling tower wastewater monitoring network 2015 anions data summary.

Building/Location	Date	Sodium (mg/L)	Chloride (mg/L)	Nitrate (as NO3) (mg/L)	Sulfate (mg/L)	Fluoride (mg/L)	Bromide (mg/L)
3-801ACT01-TW	May 19	550	210	2.8	400	0.79	0.63
3-801ACT01-TW	Oct 27	720	320	2.7	560	0.85	0.74
3-817ACT01-TW	May 19	960	360	11	710	1.3	1.6
3-817ACT01-TW	Oct 27	390	150	1.1	270	0.40	0.43
3-826FCT01-TW	May 19	450	160	4.0	300	0.62	0.72
3-826FCT01-TW	Oct 27	290	110	0.53	200	0.26	0.26
3-827ACT01-TW	May 19	340	130	3.9	250	0.53	0.57
3-827ACT01-TW	Oct 27	650	250	1.7	450	0.62	0.57
3-851BFCT03-TW	May 19	2,700	1,100	12	1,900	3.3	3.6
3-851BFCT03-TW	Oct 27	520	210	3.1	360	0.56	0.54

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Table B-2. Site 300 cooling tower wastewater monitoring network 2015 metals analysis data summary.

Analyte (µg/L)	Month	3-801ACT01- TW	3-817ACT01- TW	3-826FCT01- TW	3-827ACT01- TW	3-851BFCT03- TW
Aluminum	Q2	<50	<100	<50	<50	<250
	Q4	<50	<50	<50	<50	<50
Arsenic	Q2	<2	<2	<2	<2	12
	Q4	<2	<2	<2	<2	<2
Barium	Q2	30	36	<25	27	81
	Q4	36	<25	<25	28	<25
Boron	Q2	2,200	3,700	1,800	1,400	11,000
	Q4	3,100	1,600	1,100	2,100	2,500
Cadmium	Q2	<50	<50	<50	<50	<50
	Q4	<50	<50	<50	<50	<50
Calcium	Q2	32,000	34,000	23,000	23,000	150,000
	Q4	38,000	15,000	10,000	25,000	29,000
Chromium	Q2	<1	<1	<1	<1	<1
	Q4	<1	<1	<1	<1	<1
Hex-Chromium	Q2	<1	<1	<1	<1	5.3
	Q4	<1	<1	<1	<1	<1
Copper	Q2	7.0	84	18	17	1.2
	Q4	6.6	33	2.5	29	4.3
Iron	Q2	<100	300	340	270	890
	Q4	170	610	<100	180	180
Lead	Q2	<5	<5	<5	<5	<5
	Q4	<5	<5	<5	<5	<5
Magnesium	Q2	<500	2000	970	670	<2500
	Q4	<500	680	<500	<500	<500
Manganese	Q2	<30	<60	<30	<30	<150
	Q4	<30	<30	<30	<30	<30
Mercury	Q2	<0.2	<0.2	<0.2	<0.2	<0.2
	Q4	<0.2	<0.2	<0.2	<0.2	<0.2
Molybdenum	Q2	45	78	34	27	220
	Q4	61	32	<25	39	50
Nickel	Q2	<2	<2	<2	<2	<2
	Q4	<2	<2	<2	<2	<2
Potassium	Q2	31,000	40,000	28,000	29,000	170,000
	Q4	38,000	16,000	10,000	24,000	27,000
Selenium	Q2	<2	<2	<2	<2	<2
	Q4	<2	<2	<2	<2	<2
Silver	Q2	<1	<1	<1	<1	<1
	Q4	<1	<1	<1	<1	<1
Vanadium	Q2	<20	<20	<20	<20	<20
	Q4	<20	<20	<20	<20	<20
Zinc	Q2	<20	55	20	130	32
	Q4	<20	360	<20	20	<20

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015

Table B-3. Site 300 cooling tower wastewater monitoring network 2015 physical characteristics data summary.

Well/ Location	Date	pH	Specific Conductance (µmhos/cm)	Total Alkalinity (as CaCO ₃) (mg/L)	Total dissolved solids (mg/L)	Total Hardness (as CaCO ₃) (mg/L)	Total Phosphorus (as PO ₄) (mg/L)
3-801ACT01-TW	May 19	9.0	2,340	530	1,800	81	13
3-801ACT01-TW	Oct 27	9.1	3,540	730	2,500	96	21
3-817ACT01-TW	May 19	9.1	3,880	870	2,900	93	3.7
3-817ACT01-TW	Oct 27	9.0	1,790	370	1,300	39	1.9
3-826FCT01-TW	May 19	9.0	1,890	470	1,400	60	4.1
3-826FCT01-TW	Oct 27	8.8	1,300	260	920	27	0.18
3-827ACT01-TW	May 19	8.9	1,540	350	1,100	60	23
3-827ACT01-TW	Oct 27	9.1	2,810	570	2,000	64	0.29
3-851BFCT03-TW	May 19	9.4	9,730	2,400	7,200	360	140
3-851BFCT03-TW	Oct 27	9.0	2,410	500	1,700	72	8.6

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015

Table B-4. Site 300 cooling tower wastewater monitoring network 2015 QA data summary.

Constituent	Units	3-801ACT01-TW	3-801ACT01-TW	3-826FCT01-TW	3-826FCT01-TW
		May 19	May 19	Oct 27	Oct 27
		Routine	Duplicate	Routine	Duplicate
pH	Units	9.0	9.1	8.8	8.8
Specific Conductance	µmhos/cm	2,340	2,360	1,300	1,300
Aluminum	µg/L	<50	<50	<50	<50
Arsenic	µg/L	<2	<2	<2	<2
Barium	µg/L	30	28	<25	<25
Boron	µg/L	2,200	2,300	1,100	1,100
Cadmium	µg/L	<50	<50	<50	<50
Calcium	µg/L	32,000	32,000	10,000	10,000
Chromium	µg/L	<1	<1	<1	<1
Hexavalent Chromium	µg/L	<1	<1	<1	<1
Copper	µg/L	7.0	6.4	2.5	2.7
Iron	µg/L	<100	120	<100	<100
Lead	µg/L	<5	<5	<5	<5
Magnesium	µg/L	<500	<500	<500	<500
Manganese	µg/L	<30	<30	<30	<30
Mercury	µg/L	<0.2	<0.2	<0.2	<0.2
Molybdenum	µg/L	45	45	<25	<25
Nickel	µg/L	<2	<2	<2	<2
Potassium	µg/L	31,000	32,000	10,000	10,000
Selenium	µg/L	<2	<2	<2	<2
Silver	µg/L	<1	<1	<1	<1
Vanadium	µg/L	<20	<20	<20	<20
Zinc	µg/L	<20	<20	<20	<20
Sodium	mg/L	550	570	290	290
Chloride	mg/L	210	220	110	110
Nitrate (as NO3)	mg/L	2.8	2.9	0.53	0.53
Sulfate	mg/L	400	410	200	200
Fluoride	mg/L	0.79	0.86	0.26	0.26
Bromide	mg/L	0.63	0.97	0.26	0.32
Total Alkalinity (as CaCO3)	mg/L	530	530	260	260
Total dissolved solids (TDS)	mg/L	1,800	1,800	920	900
Total Hardness (as CaCO3)	mg/L	81	82	27	27
Total Phosphorus (as PO4)	mg/L	13	13	0.18	0.16

FIELD TRACKING FORM
Semi-Annual SITE 300 Cooling Towers

Special Instructions:
Should be sampled in early April and October.
See back of form for additional access information

LAB	CoC#	Ship It #
BC Labs	67957	201128

pH meter calibrated on: 10-27-15

Specific Conductance meter calibrated on: 10-27-15

Sample Date: 10-27-15

Location Identifier	Location DUP taken -year/quarter	Sample Time	Initials	Field Measurements		BC Labs				Comments
				pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 500mL Poly	S3WETCHEM 1000mL Poly	E300.0/BR 250ml Poly	
3-801ACT01-TW	2012/2nd	0855	KB/CR	8.56	3.11 mS					<p>851 CT sample part we have previously used is no longer available. Collected sample from what appears to be a new sample part installed.</p> <p>801CT s/w plumber Ron Archuleta - informed us most CTs are getting new sampling ports.</p> <p>825 - offline</p>
3-817ACT01-TW	2014/2nd	0945	KB/CR	8.73	1502 uS					
3-825ACT01-TW	2015/2nd									
3-826FCT01-TW	2015/4th	0925	KB/CR	8.77	1161 uS					
3-827ACT01-TW	2014/4TH	0915	KB/CR	8.86	254 mS					
3-851BFCT03-TW	2011/4th	0840	KB/CR	8.95	1464 uS					
Duplicate of 3-826FCT01-TW										
3-B9900-01-TW										

Copy to Analyst, Rick Blake.

Chain of Custody

EFA Data Management Team
Lawrence Livermore National Laboratory
P.O. Box 808 L-627
Livermore, CA 94551

Access/COC #: 67957
 Document Control #: 67957
 Requester/LLNL Analyst: R. Blake
 Organization / Sampler: EFA / brunckhorst2
 PCI Project #: 39360
 PCI Task #: 1.03.02.12.01.01
 Email: efa-dmt@llnl.gov

Analytical Lab : BCLABS-BAK
 TAT: 20d
 Analytical Lab Log #: _____
 Project/Network: COOLTOWER
 Shipt Release #: 201128
 Add'l Email: _____

Additional Instructions:

Work Authorized By: EFA
 TRR Approver: Della Burruss
 Project Info: _____

DMT Additional Copies: _____

Sample ID	Sampled Date/Time	Matrix	Cont. Type	Cont. Count	Study Area	Req. Analysis	Analysis Detail	Lab Instructions
3-801ACT01-01-TW	10/27/2015 08:55	TW	P	1	COOLTOWER	E300.0	BR	
3-801ACT01-01-TW	10/27/2015 08:55	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-801ACT01-01-TW	10/27/2015 08:55	TW	P	0	COOLTOWER	S3METALS	ALL	
3-801ACT01-01-TW	10/27/2015 08:55	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-801ACT01-01-TW	10/27/2015 08:55	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-817ACT01-01-TW	10/27/2015 09:45	TW	P	1	COOLTOWER	E300.0	BR	
3-817ACT01-01-TW	10/27/2015 09:45	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-817ACT01-01-TW	10/27/2015 09:45	TW	P	0	COOLTOWER	S3METALS	ALL	
3-817ACT01-01-TW	10/27/2015 09:45	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-817ACT01-01-TW	10/27/2015 09:45	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-826FCT01-01-TW	10/27/2015 09:25	TW	P	1	COOLTOWER	E300.0	BR	
3-826FCT01-01-TW	10/27/2015 09:25	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-826FCT01-01-TW	10/27/2015 09:25	TW	P	0	COOLTOWER	S3METALS	ALL	
3-826FCT01-01-TW	10/27/2015 09:25	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-826FCT01-01-TW	10/27/2015 09:25	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-B9900-01-TW	10/27/2015 09:25	TW	P	1	COOLTOWER	E300.0	BR	
3-B9900-01-TW	10/27/2015 09:25	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-B9900-01-TW	10/27/2015 09:25	TW	P	0	COOLTOWER	S3METALS	ALL	
3-B9900-01-TW	10/27/2015 09:25	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-B9900-01-TW	10/27/2015 09:25	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-827ACT01-01-TW	10/27/2015 09:15	TW	P	1	COOLTOWER	E300.0	BR	
3-827ACT01-01-TW	10/27/2015 09:15	TW	P	1	COOLTOWER	S3ANIONS	ALL	
3-827ACT01-01-TW	10/27/2015 09:15	TW	P	0	COOLTOWER	S3METALS	ALL	
3-827ACT01-01-TW	10/27/2015 09:15	TW	P	1	COOLTOWER	S3METALS	TOTAL	
3-827ACT01-01-TW	10/27/2015 09:15	TW	P	1	COOLTOWER	S3WETCHEM	ALL	
3-851BFCT03-01-TW	10/27/2015 08:40	TW	P	1	COOLTOWER	E300.0	BR	
3-851BFCT03-01-TW	10/27/2015 08:40	TW	P	1	COOLTOWER	S3ANIONS	ALL	

Relinquished Signature	Company	Date	Time	Received Signature	Company	Date	Time
1 <i>[Signature]</i>	LLNL/EFA	10/27/2015	1500	2 <i>[Signature]</i>	BCLAB	10-27-15	1630
2				3			
3				4			
4				5			

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 7-30-15 Inspector D. Rockstead Building Number 801

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

Response

Description and Comments:

1. Is water flowing from the Christy box?
2. Are there any signs of recent overflow (damp dirt around Christy box)?

Yes/No
 No
 Yes

Yes/No
 No
 Yes

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

3. Is there standing water in the Christy box?

Yes/No
 No
 Yes

If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).

Yes/No
 No
 Yes

If yes to any of the above, note date, actions taken, and type of repairs when made:

Supervisor's Signature _____

Date 8/4/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 7-30-15 Inspector D. Rockett Building Number 809

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

- | <u>Check Items</u> | <u>Response</u> | <u>Description and Comments:</u> |
|---|---|----------------------------------|
| 1. Is water flowing from the Christy box? | Yes/No
<input checked="" type="radio"/> No | _____ |
| 2. Are there any signs of recent overflow (damp dirt around Christy box)? | Yes/No
<input checked="" type="radio"/> No | _____ |

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

- | | | |
|--|---|-------|
| 3. Is there standing water in the Christy box? | Yes/No
<input checked="" type="radio"/> No | _____ |
|--|---|-------|

If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

- | | | |
|--|---|-------|
| 4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). | Yes/No
<input checked="" type="radio"/> No | _____ |
| | | _____ |
| | | _____ |

If yes to any of the above, note date, actions taken, and type of repairs when made:

Supervisor's Signature [Signature] Date 8/4/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 7-30-15 Inspector D. Rockett Building Number 817A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No <u>8</u>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <u>8</u>	_____

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

3. Is there standing water in the Christy box?	Yes/No <u>0</u>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		

4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris)?	Yes/No <u>0</u>	_____
If yes to any of the above, note date, actions taken, and type of repairs when made:		

Supervisor's Signature [Signature] Date 8/4/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 7-30-15 Inspector D. Rockstead Building Number 826

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

- | <u>Check Items</u> | <u>Response</u> | <u>Description and Comments:</u> |
|---|---|----------------------------------|
| 1. Is water flowing from the Christy box? | Yes/No
<input checked="" type="radio"/> No | _____ |
| 2. Are there any signs of recent overflow (damp dirt around Christy box)? | Yes/No
<input checked="" type="radio"/> No | _____ |

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

- | | | |
|--|---|-------|
| 3. Is there standing water in the Christy box? | Yes/No
<input checked="" type="radio"/> No | _____ |
|--|---|-------|

If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

- | | | |
|--|---|-------------------------|
| 4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). | Yes/No
<input checked="" type="radio"/> No | _____

_____ |
|--|---|-------------------------|

If yes to any of the above, note date, actions taken, and type of repairs when made:

Supervisor's Signature [Signature] Date 8/4/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 7-30-15 Inspector D. Rockstead Building Number 827A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

- | | <u>Response</u> | <u>Description and Comments:</u> |
|---|---|----------------------------------|
| 1. Is water flowing from the Christy box? | Yes/No
<input checked="" type="radio"/> No | _____ |
| 2. Are there any signs of recent overflow (damp dirt around Christy box)? | Yes/No
<input checked="" type="radio"/> No | _____ |

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

- | | | |
|--|---|-------|
| 3. Is there standing water in the Christy box? | Yes/No
<input checked="" type="radio"/> No | _____ |
|--|---|-------|

If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

- | | | |
|--|---|-------------------------|
| 4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). | Yes/No
<input checked="" type="radio"/> No | _____

_____ |
|--|---|-------------------------|

If yes to any of the above, note date, actions taken, and type of repairs when made:

Supervisor's Signature [Signature] Date 8/4/15

* Note: This form may be modified or used as-is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 7-30-15 Inspector D. Rockstead Building Number 851

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

- | | <u>Response</u> | <u>Description and Comments:</u> |
|---|---|----------------------------------|
| 1. Is water flowing from the Christy box? | Yes/No
<input checked="" type="radio"/> No | _____ |
| 2. Are there any signs of recent overflow (damp dirt around Christy box)? | Yes/No
<input checked="" type="radio"/> No | _____ |

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

- | | | |
|--|---|-------|
| 3. Is there standing water in the Christy box? | Yes/No
<input checked="" type="radio"/> No | _____ |
|--|---|-------|

If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

- | | | |
|--|---|-------|
| 4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris). | Yes/No
<input checked="" type="radio"/> No | _____ |
| | | _____ |
| | | _____ |

If yes to any of the above, note date, actions taken, and type of repairs when made:

Supervisor's Signature [Signature] Date 8/4/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8-27-15 Inspector D. Rockstead Building Number 801

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

Response

Description and Comments:

1. Is water flowing from the Christy box?
2. Are there any signs of recent overflow (damp dirt around Christy box)?

Yes/No
 Yes/No

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

3. Is there standing water in the Christy box?

Yes/No

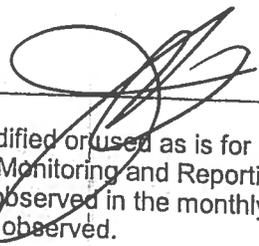
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).

Yes/No

If yes to any of the above, note date, actions taken, and type of repairs when made:

Supervisor's Signature _____



Date _____

9/1/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8-27-15 Inspector D. Rockstead Building Number 809

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

1. Is water flowing from the Christy box?
2. Are there any signs of recent overflow (damp dirt around Christy box)?

Response

Description and Comments:

Yes/No

Yes/No

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

3. Is there standing water in the Christy box?

Yes/No

If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris)?

Yes/No

If yes to any of the above, note date, actions taken, and type of repairs when made:

Supervisor's Signature _____

Date 9/1/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8-27-15 Inspector D. Rockstead Building Number 817A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

- 1. Is water flowing from the Christy box?
- 2. Are there any signs of recent overflow (damp dirt around Christy box)?

Response

Description and Comments:

Yes/No

Yes/No

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

- 3. Is there standing water in the Christy box?

Yes/No

If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

- 4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).

Yes/No

If yes to any of the above, note date, actions taken, and type of repairs when made:

Supervisor's Signature _____

Date 9/1/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8-27-15 Inspector D. Rockstead Building Number 826

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

1. Is water flowing from the Christy box?
2. Are there any signs of recent overflow (damp dirt around Christy box)?

Response

Description and Comments:

Yes/No
 Yes/No

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

3. Is there standing water in the Christy box?

Yes/No

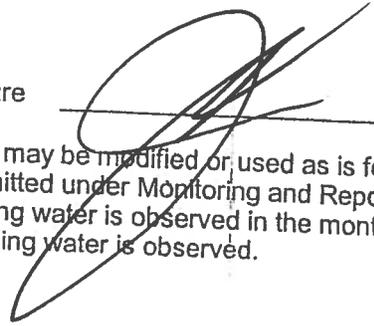
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).

Yes/No

If yes to any of the above, note date, actions taken, and type of repairs when made:

Supervisor's Signature



Date

9/1/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8-27-15 Inspector D. Rockstead Building Number 827A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

- 1. Is water flowing from the Christy box?
- 2. Are there any signs of recent overflow (damp dirt around Christy box)?

Response
 Yes/No
 Yes/No

Description and Comments:

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

- 3. Is there standing water in the Christy box?

Yes/No

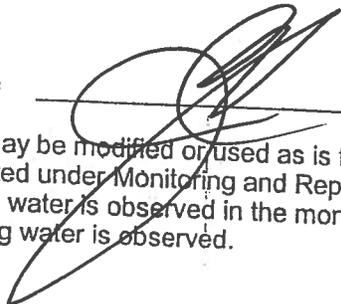
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

- 4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).

Yes/No

If yes to any of the above, note date, actions taken, and type of repairs when made:

Supervisor's Signature



Date

9/1/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8-27-15 Inspector D. Rockstead Building Number 851

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items

Response Description and Comments:

1. Is water flowing from the Christy box?

Yes/No No

2. Are there any signs of recent overflow (damp dirt around Christy box)?

Yes/No No

If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

3. Is there standing water in the Christy box?

Yes/No No

If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).

Yes/No No

If yes to any of the above, note date, actions taken, and type of repairs when made:

Supervisor's Signature _____

Date 9/1/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 9-10-15 Inspector David Rockstead Building Number 801

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	_____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature _____ Date 9/10/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 9-10-15 Inspector David Rockstead Building Number 809

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature  Date 9/10/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 9-10-15 Inspector David Rockstead Building Number 817A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature _____ Date 9/10/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 9-10-15 Inspector David Rockstead Building Number 826

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature  Date 9/16/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 9-10-15 Inspector David Rockstead Building Number 827A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	_____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature _____ Date 9/16/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

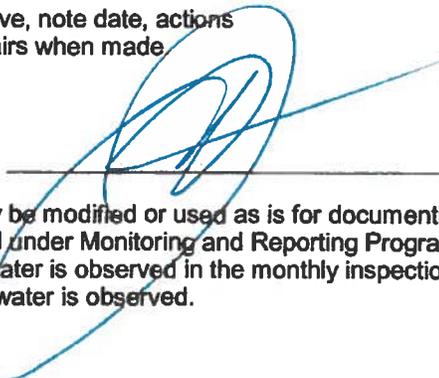
Date 9-10-15 Inspector David Rockstead Building Number 851

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input checked="" type="radio"/> No	_____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature  Date 9/16/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 10-29-2015 Inspector D. Rockstead Building Number 809

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/ <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 11/4/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 10-29-2015 Inspector D. Rockstead Building Number 817A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature  Date 11/4/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

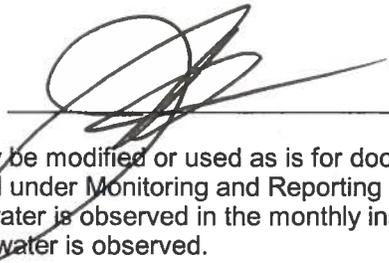
Date 10-29-2015 Inspector D. Rockstead Building Number 826

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/ <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 11/4/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

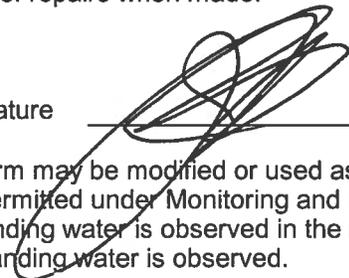
Date 10-29-2015 Inspector D. Rockstead Building Number 827A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <input checked="" type="checkbox"/> No	_____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature  Date 11/4/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

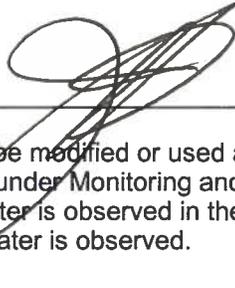
Date 10-29-2015 Inspector D. Rockstead Building Number 851

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/ <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 11/4/15

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Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

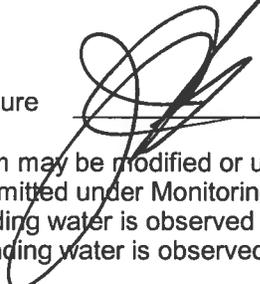
Date 11-26-2015 Inspector D. Rockstead Building Number 801

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/ <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature  Date 12/2/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

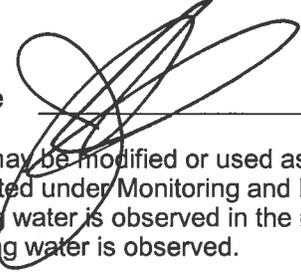
Date 11-26-2015 Inspector D. Rockstead Building Number 809

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 12/2/15

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Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

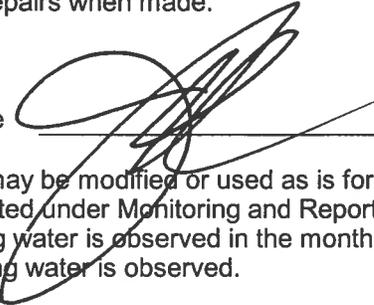
Date 11-26-2015 Inspector D. Rockstead Building Number 817A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature  Date 12/2/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

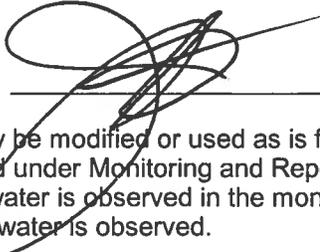
Date 11-26-2015 Inspector D. Rockstead Building Number 826

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 12/2/15

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Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 11-26-2015 Inspector D. Rockstead Building Number 827A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature  Date 12/2/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

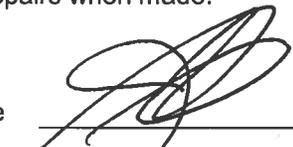
Date 11-26-2015 Inspector D. Rockstead Building Number 851

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No <input checked="" type="checkbox"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <input checked="" type="checkbox"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <input checked="" type="checkbox"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <input checked="" type="checkbox"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 12/2/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

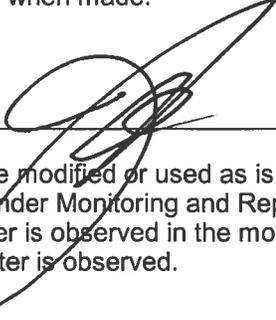
Date 12-29-2015 Inspector D. Rockstead Building Number 801

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/ <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 1/5/16

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

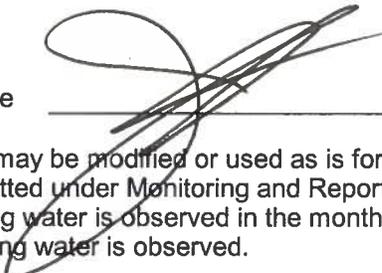
Date 12-29-2015 Inspector D. Rockstead Building Number 809

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

Check Items	Response	Description and Comments:
1. Is water flowing from the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/ <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature  Date 1/5/16

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

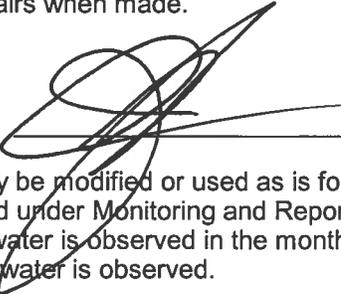
Date 12-29-2015 Inspector D. Rockstead Building Number 817A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature  Date 1/2/16

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 12-29-2015 Inspector D. Rockstead Building Number 826

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/ <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/ <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 1/5/16

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

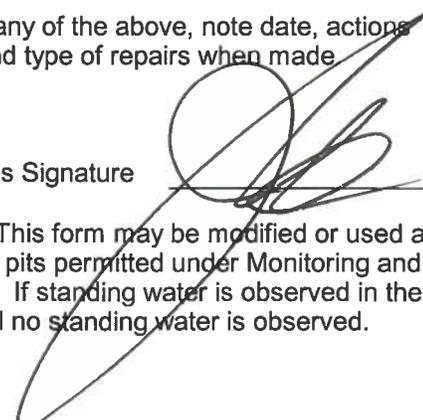
Date 12-29-2015 Inspector D. Rockstead Building Number 827A

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made		
_____ _____ _____		

Supervisor's Signature  Date 1/5/16

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Cooling Tower Percolation Pit Inspection Checklist*
For Buildings 801, 809, 817A, 826, 827A, and 851
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

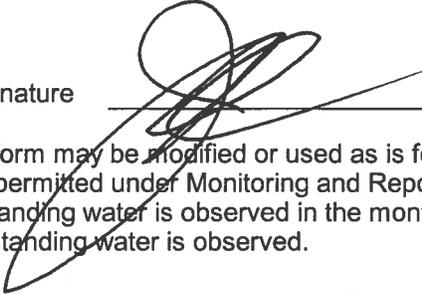
Date 12-29-2015 Inspector D. Rockstead Building Number 851

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), EPD.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <input checked="" type="checkbox"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <input checked="" type="checkbox"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 1/5/16

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Appendix C

Mechanical Room Network

**Mechanical Equipment Discharge Effluent Monitoring for
Buildings 806B, 827C, 827D, 827E, and 3-CT-PERC-01-0W
Mechanical Equipment Room Percolation Pit
Inspection Forms**

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015

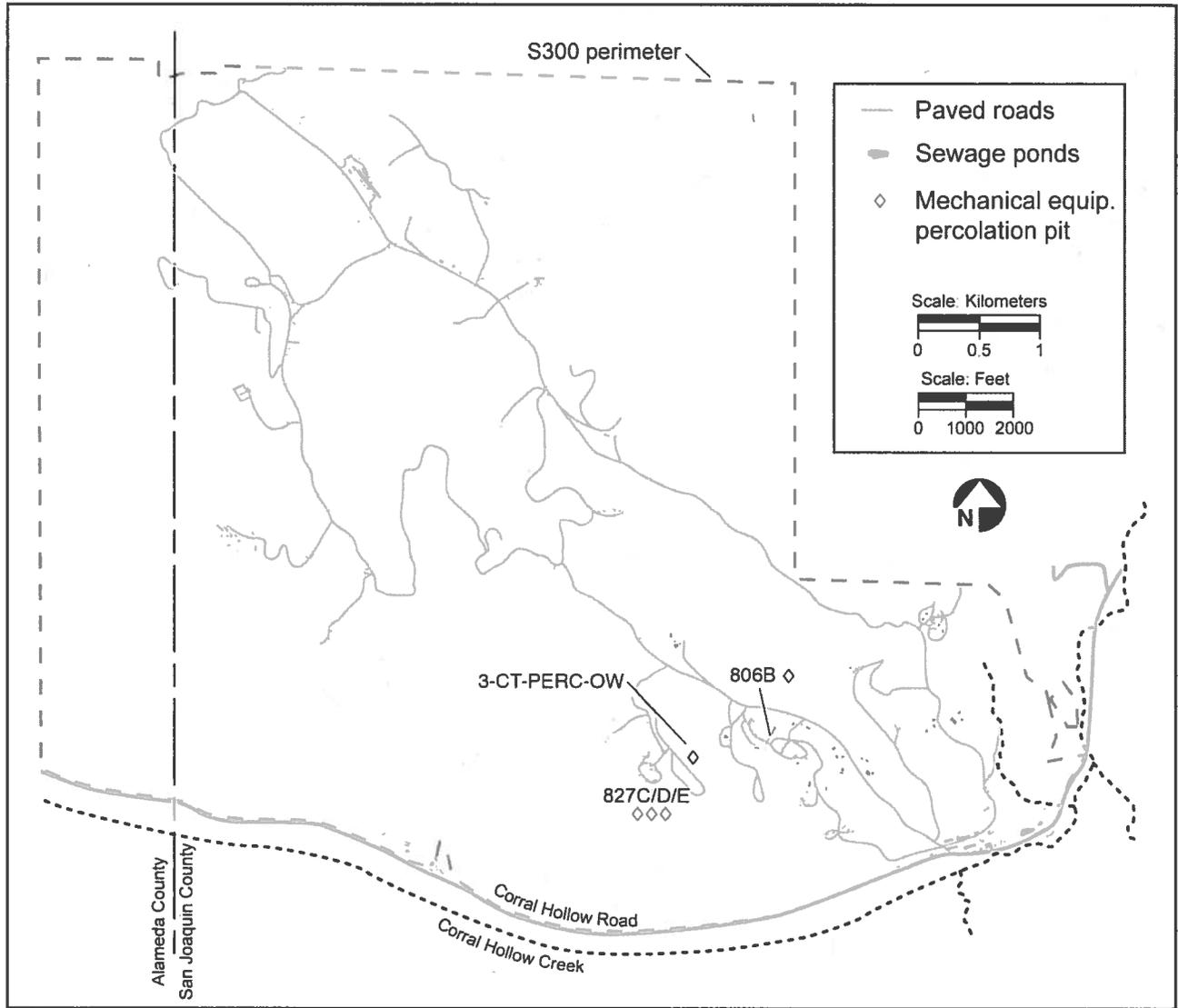


Figure C-1. Location of mechanical equipment wastewater percolation pits.

*LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015*

Table C-1. Site 300 mechanical equipment discharge effluent monitoring 2015 anions data summary.

Well	Date	Sodium mg/L	Chloride mg/L	Nitrate (as NO3) mg/L	Sulfate mg/L	Fluoride mg/L
3-B806B-OW	May 11	220	91	<0.5	170	0.27
3-B806B-OW	Oct 1	250	97	<1	170	0.26
3-B827C-OW	May 12	690	430	<2.5	520	0.72
3-B827C-OW	Oct 6	380	180	1.1	230	0.40
3-B827D-OW	May 12	310	100	2.7	190	0.34
3-B827D-OW	Oct 5	250	110	<0.5	190	0.85
3-B827D-OW	Oct 5 DUP	270	110	<0.5	190	0.89
3-B827E-OW	May 11	350	130	0.54	260	0.41
3-B827E-OW	May 11 DUP	380	-	-	-	-
3-B827E-OW	May 11 DUP2	370	130	0.54	260	0.41
3-CT-PERC-OW	May 13	270	93	<1	180	0.29
3-CT-PERC-OW	Oct 1	360	140	<1	240	0.45

(-) Sample not required.

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015

Table C-2. Site 300 mechanical equipment discharge effluent monitoring 2015 metals data summary.

Analyte	Date	3-B806B-OW	3-B827C-OW	3-B827D-OW	3-B827D-OW DUP	3-B827E-OW	3-B827E-OW DUP2	3-B827E-OW DUP	3-CT-PERC- OW
Aluminum ($\mu\text{g/L}$)	May 11	<50	-	-	-	<50	<50	<50	-
	May 12	-	<50	56	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	66
	Oct 1	66	-	-	-	-	-	-	<50
	Oct 5	-	-	68	<50	-	-	-	-
	Oct 6	-	<50	-	-	-	-	-	-
	Oct 6	-	<50	-	-	-	-	-	-
Arsenic ($\mu\text{g/L}$)	May 11	<2	-	-	-	<2	<2	<2	-
	May 12	-	2.9	<2	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<2
	Oct 1	<2	-	-	-	-	-	-	<2
	Oct 5	-	-	<2	<2	-	-	-	-
	Oct 6	-	3.8	-	-	-	-	-	-
	Oct 6	-	<2	-	-	-	-	-	-
Barium ($\mu\text{g/L}$)	May 11	<25	-	-	-	<25	<25	<25	-
	May 12	-	<25	<25	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<25
	Oct 1	<25	-	-	-	-	-	-	<25
	Oct 5	-	-	<25	<25	-	-	-	-
	Oct 6	-	<25	-	-	-	-	-	-
	Oct 6	-	<25	-	-	-	-	-	-
Boron ($\mu\text{g/L}$)	May 11	870	-	-	-	1,300	1,300	1,500	-
	May 12	-	1,900	1,300	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	1,000
	Oct 1	990	-	-	-	-	-	-	1,400
	Oct 5	-	-	1,400	1,300	-	-	-	-
	Oct 6	-	1,300	-	-	-	-	-	-
	Oct 6	-	1,300	-	-	-	-	-	-

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015

Table C-2. Site 300 mechanical equipment discharge effluent monitoring 2015 metals data summary.

Analyte	Date	3-B806B-OW	3-B827C-OW	3-B827D-OW	3-B827D-OW DUP	3-B827E-OW	3-B827E-OW DUP2	3-B827E-OW DUP	3-CT-PERC- OW
Cadmium (µg/L)	May 11	<50	-	-	-	<50	<50	<50	-
	May 12	-	<50	<50	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<50
	Oct 1	<50	-	-	-	-	-	-	<50
	Oct 5	-	-	<50	<50	-	-	-	-
	Oct 6	-	<50	-	-	-	-	-	-
Calcium (µg/L)	May 11	10,000	-	-	-	13,000	14,000	15,000	-
	May 12	-	7,400	3,900	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	18,000
	Oct 1	8,300	-	-	-	-	-	-	13,000
	Oct 5	-	-	9,700	9,700	-	-	-	-
	Oct 6	-	3,500	-	-	-	-	-	-
Chromium (µg/L)	May 11	<1	-	-	-	<1	<1	<1	-
	May 12	-	<3	<3	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<3
	Oct 1	<3	-	-	-	-	-	-	<3
	Oct 5	-	-	<3	<3	-	-	-	-
	Oct 6	-	<3	-	-	-	-	-	-
Chromium (VI) (µg/L)	May 11	<1	-	-	-	<1	<1	<1	-
	May 12	-	<1	1.3	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<1
	Oct 1	<1	-	-	-	-	-	-	<1
	Oct 5	-	-	<1	<1	-	-	-	-
	Oct 6	-	<1	-	-	-	-	-	-

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015

Table C-2. Site 300 mechanical equipment discharge effluent monitoring 2015 metals data summary.

Analyte	Date	3-B806B-OW	3-B827C-OW	3-B827D-OW	3-B827D-OW DUP	3-B827E-OW	3-B827E-OW DUP2	3-B827E-OW DUP	3-CT-PERC- OW
Copper (µg/L)	May 11	8.0	-	-	-	74	68	70	-
	May 12	-	2,800	90	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	5.8
	Oct 1	73	-	-	-	-	-	-	18
	Oct 5	-	-	50	48	-	-	-	-
	Oct 6	-	280	-	-	-	-	-	-
Iron (µg/L)	May 11	<100	-	-	-	2,500	2,600	2,700	-
	May 12	-	9,500	3,600	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	160
	Oct 1	220	-	-	-	-	-	-	240
	Oct 5	-	-	330	320	-	-	-	-
	Oct 6	-	1,900	-	-	-	-	-	-
Lead (µg/L)	May 11	<5	-	-	-	10	8.9	9.8	-
	May 12	-	34	16	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<5
	Oct 1	6.0	-	-	-	-	-	-	<5
	Oct 5	-	-	<5	<5	-	-	-	-
	Oct 6	-	7.1	-	-	-	-	-	-
Magnesium (µg/L)	May 11	540	-	-	-	<500	<500	<500	-
	May 12	-	<500	<500	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<500
	Oct 1	<500	-	-	-	-	-	-	<500
	Oct 5	-	-	790	740	-	-	-	-
	Oct 6	-	<500	-	-	-	-	-	-

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015

Table C-2. Site 300 mechanical equipment discharge effluent monitoring 2015 metals data summary.

Analyte	Date	3-B806B-OW	3-B827C-OW	3-B827D-OW	3-B827D-OW DUP	3-B827E-OW	3-B827E-OW DUP2	3-B827E-OW DUP	3-CT-PERC- OW
Manganese (µg/L)	May 11	<30	-	-	-	49	51	53	-
	May 12	-	380	49	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<30
	Oct 1	<30	-	-	-	-	-	-	<30
	Oct 5	-	-	160	140	-	-	-	-
	Oct 6	-	<30	-	-	-	-	-	-
Mercury (µg/L)	May 11	<0.2	-	-	-	<0.2	<0.2	<0.2	-
	May 12	-	<0.2	<0.2	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<0.2
	Oct 1	<0.2	-	-	-	-	-	-	<0.2
	Oct 5	-	-	<0.2	<0.2	-	-	-	-
	Oct 6	-	<0.2	-	-	-	-	-	-
Molybdenum (µg/L)	May 11	<25	-	-	-	26	28	29	-
	May 12	-	53	28	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<25
	Oct 1	<25	-	-	-	-	-	-	29
	Oct 5	-	-	<25	<25	-	-	-	-
	Oct 6	-	27	-	-	-	-	-	-
Nickel (µg/L)	May 11	<2	-	-	-	3.0	2.6	2.8	-
	May 12	-	11	<2	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<2
	Oct 1	<2	-	-	-	-	-	-	<2
	Oct 5	-	-	<2	<2	-	-	-	-
	Oct 6	-	2.8	-	-	-	-	-	-

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015

Table C-2. Site 300 mechanical equipment discharge effluent monitoring 2015 metals data summary.

Analyte	Date	3-B806B-OW	3-B827C-OW	3-B827D-OW	3-B827D-OW DUP	3-B827E-OW	3-B827E-OW DUP2	3-B827E-OW DUP	3-CT-PERC- OW
Potassium (µg/L)	May 11	8,200	-	-	-	18,000	20,000	20,000	-
	May 12	-	98,000	14,000	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	13,000
	Oct 1	8,600	-	-	-	-	-	-	12,000
	Oct 5	-	-	15,000	15,000	-	-	-	-
	Oct 6	-	110,000	-	-	-	-	-	-
Selenium (µg/L)	May 11	<2	-	-	-	<2	<2	<2	-
	May 12	-	<2	<2	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<2
	Oct 1	<2	-	-	-	-	-	-	<2
	Oct 5	-	-	<2	<2	-	-	-	-
	Oct 6	-	10	-	-	-	-	-	-
Silver (µg/L)	May 11	<1	-	-	-	<1	<1	<1	-
	May 12	-	<10	<10	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<10
	Oct 1	<10	-	-	-	-	-	-	<10
	Oct 5	-	-	<10	<10	-	-	-	-
	Oct 6	-	<10	-	-	-	-	-	-
Vanadium (µg/L)	May 11	<20	-	-	-	<20	<20	<20	-
	May 12	-	<20	<20	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	<20
	Oct 1	<20	-	-	-	-	-	-	<20
	Oct 5	-	-	<20	<20	-	-	-	-
	Oct 6	-	<20	-	-	-	-	-	-

LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015

Table C-2. Site 300 mechanical equipment discharge effluent monitoring 2015 metals data summary.

Analyte	Date	3-B806B-OW	3-B827C-OW	3-B827D-OW	3-B827D-OW DUP	3-B827E-OW	3-B827E-OW DUP2	3-B827E-OW DUP	3-CT-PERC- OW
Zinc (µg/L)	May 11	<20	-	-	-	34	25	26	-
	May 12	-	120	36	-	-	-	-	-
	May 13	-	-	-	-	-	-	-	31
	Oct 1	43	-	-	-	-	-	-	35
	Oct 5	-	-	<20	<20	-	-	-	-
	Oct 6	-	45	-	-	-	-	-	-

Note:

-- = Sampling not required, sampling was performed for that analyte on a different date.

*LLNL Site 300 Compliance Monitoring Report for WDR Order No. R5-2008-0148
Second Semester/Annual Report 2015*

Table C-3. Site 300 mechanical equipment discharge effluent monitoring 2015 physical data.

Well	Date	pH (Units)	Specific Conductance (μmhos/cm)	Total Alkalinity (as CaCO₃) (mg/L)	Total dissolved solids (TDS) (mg/L)	Total Hardness (as CaCO₃) (mg/L)	Total Phosphorus (as PO₄) (mg/L)
3-B806B-OW	May 11	8.5	1,070	220	740	28	<0.15
3-B806B-OW	Oct 1	8.6	1,080	230	760	22	<0.15
3-B827C-OW	May 12	9.9	3,570	550	2,400	19	73
3-B827C-OW	Oct 6	9.6	1,920	400	1,400	9.1	36
3-B827D-OW	May 12	9.0	1,350	320	900	10	1.7
3-B827D-OW	Oct 5	8.6	1,240	230	800	28	0.40
3-B827D-OW	Oct 5 DUP	8.6	1,250	230	820	27	0.39
3-B827E-OW	May 11	9.6	1,570	340	1,100	34	2.9
3-B827E-OW	May 11 DUP	9.6	1,570	330	1,100	38	2.9
3-CT-PERC-OW	May 13	8.6	1,120	240	790	47	3.5
3-CT-PERC-OW	Oct 1	8.9	1,520	310	1,100	34	0.26

FIELD TRACKING FORM

Semi-Annual Site 300 Mechanical Equipment Room/Percolation Pit Discharge

Special Instructions: Should be sampled in early April and October.
 See back of form for additional access information
 ** For 3-CT-PERC-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	67821	200513

pH meter calibrated on: 10/6/15
 Specific Conductance meter calibrated on: 10/6/15

Sample Date: 10/6/15

Location Identifier	Sample Time	Initials	Field Meas		BC Labs			Comments
			pH	Specific Conductance	S3METALS 500ml Poly	S3ANIONS 1 x 500ml Poly	S3WETCHEM 1000ml Poly	
3-CT-PERC-01-OW**								B27C Started at 0740. 75, 150 ml samples were collected over a 6 hour time period. Approx 6 liters collected. NOTE: Re-paving activities occurred during the course of the 6 time period in the area of the sample location
3-B827C-01-OW	1400	KB	8.76	1710.45	1	1	1	
3-B827D-01-OW								
3-B827E-01-OW								
3-B806B-01-OW								
Duplicate of 3-B827D-01-OW								
3-B9900-OW								

Copy to Analyst, Rick Blake.

FIELD TRACKING FORM

Semi-Annual Site 300 Mechanical Equipment Room/Percolation Pit Discharge

Special Instructions: Should be sampled in early April and October.
 See back of form for additional access information
 ** For 3-CT-PERC-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	67780	200446

pH meter calibrated on: 10/5/15
 Specific Conductance meter calibrated on: 10/5/15

Sample Date: 10/5/15

Location Identifier	Sample Time	Initials	Field Meas		BC Labs			Comments
			pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	S3WETCHEM 1000mL Poly	
3-CT-PERC-01-OW**								B27D STARTED AT 0750' 76, 150 ml Samples were collected over a 6 Hour Time period. Approx 6 Liters collected B27E STARTED AT 0740 And was DRY upon Arrival. NO Samples collected over A 6 Hour Time period.
3-B827C-01-OW								
3-B827D-01-OW	1350	KS	8.32	1126MS	1	1	1	
3-B827E-01-OW								
3-B806B-01-OW								
Duplicate of 3-B827D-01-OW								
3-B9900-OW	1350	KS			1	1	1	

Copy to Analyst, Rick Blake.

FIELD TRACKING FORM

Semi-Annual Site 300 Mechanical Equipment Room/Percolation Pit Discharge

Special Instructions: Should be sampled in early April and October.
 See back of form for additional access information
 ** For 3-CT-PERC-01-OW Contact FPOC; Off-road travel

LAB	CoC#	Ship It #
BC Labs	67737	200359

pH meter calibrated on: 10/1/15
 Specific Conductance meter calibrated on: 10/1/15

Sample Date: 10/1/15

Location Identifier	Sample Time	Initials	Field Meas		BC Labs			Comments
			pH	Specific Conductance	S3METALS 500mL Poly	S3ANIONS 1 x 500ml Poly	S3WETCHEM 1000mL Poly	
3-CT-PERC-01-OW**	1410	KB	8.23	137045	1	1	1	B806B Started at 7:40. 75 150 ml Samples collected over a 6 Hour time period. Approx 4 liters collected CT-Perc Started at 8:00. 75, 150 ml Samples collected over a 6 Hour time period Approx 8 liters collected
3-B827C-01-OW								
3-B827D-01-OW								
3-B827E-01-OW								
3-B806B-01-OW	1350	KB	8.47	101245	1	1	1	
<i>Duplicate of 3-B827D-01-OW</i>								
3-B9900-OW								

Copy to Analyst, Rick Blake.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 6/29/2015 Inspector MARK KRAVUS Building Number 806 B

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature *Robert Bates* Date 6/29/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

John Cartt 7/9/15

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 7-6-15 Inspector SPENCER VARTANIAN Building Number 827A CT

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	_____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature *Victoria J. Gallagher* Date 7-7-15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 7.6.15 Inspector SPENLER VARTANIAN Building Number B27C

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature  Date 7.7.15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 7-6-15 Inspector SPENCER VARTANIAN Building Number 827D

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris)?	Yes <input checked="" type="radio"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature  Date 7-7-15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 7-6-15 Inspector SPENCER VARTANIAN Building Number 827E

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris)?	Yes <input checked="" type="radio"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature  Date 7/7/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8/4/2015 Inspector MARK KRAUS Building Number 806

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/ <input checked="" type="radio"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ <input checked="" type="radio"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/ <input checked="" type="radio"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/ <input checked="" type="radio"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature *Robert Bates* Date 8/5/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

John Edwards 8/6/15

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8.4.15 Inspector SPENCER VARTANIAN Building Number 827A CT

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature *Arthur J. Gallagher* Date 8.4.15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8.4.15 Inspector SPENCER VARTANIAN Building Number 827C

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature *Patrick J. ...* Date 8.4.15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8.4.15 Inspector SPENCER VARTANIAN Building Number 827D

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input checked="" type="radio"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 8.4.15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8.4.15 Inspector SPENLER VARTANIAN Building Number 827E

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature  Date 8.4.15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 8-31-15 Inspector TODD WEST Building Number 806

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/ <u>No</u>	<u>NO</u>
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/ <u>No</u>	<u>NO</u>
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/ <u>No</u>	<u>NO</u>
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/ <u>No</u>	<u>NO</u>
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature Robert Bate Date 8/31/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

[Handwritten signature] 9/3/15

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 9/30/2015 Inspector MARK KRAWK Building Number 806B

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature Robert Boster Date 9/30/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

del 10/1/15

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 9-1-15 Inspector SPENCER VARTANIAN Building Number 827A CT

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature  Date 9-8-15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 9-1-15 Inspector SPENCER VARTANIAN Building Number 827C

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input checked="" type="radio"/> No <input type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature *Patrick J. Gallagher* Date 9-1-15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 9.1.15 Inspector SPENCER VARTANIAN Building Number 827D

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input checked="" type="radio"/> No	_____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature  Date 9.8.15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 9.1.15 Inspector SPENCER VARTANIAN Building Number 827E

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature *Robert A. Kelly* Date 9.8.15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 10-8-15 Inspector SPENCER VARTANIAN Building Number 827A CT

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 10-19-15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 10.8.15 Inspector SPENCER VARTANIAN Building Number 827C

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input checked="" type="radio"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature  Date 10.19.15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

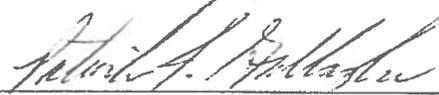
Date 10.8.15 Inspector SPENCER VARTANIAN Building Number 827P

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input checked="" type="radio"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 10.19.15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 10.8.15 Inspector SPENCER VARTANIAN Building Number 827 E

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature  Date 10.19.15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 10/26/2015 Inspector MARK KRAUS Building Number 806 B

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	_____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature Robert Babin Date 10/26/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

John Scott 11/2/15

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 11-11-15 Inspector SPENCER VARTANIAN Building Number 827A CT

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No <input checked="" type="radio"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <input checked="" type="radio"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <input checked="" type="radio"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <input checked="" type="radio"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 11-24-15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

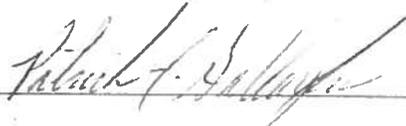
Date 11-11-15 Inspector SPENCER VARTANIAN Building Number 827C

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input checked="" type="radio"/> No	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 11-24-15

Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

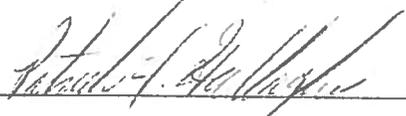
Date 11-11-15 Inspector SPENCER VARTANIAN Building Number 827D

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 11-24-15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 11.11.15 Inspector SPENCER VARTANIAN Building Number 827E

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input checked="" type="radio"/> No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input checked="" type="radio"/> No	_____

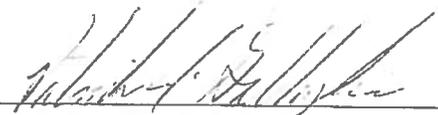
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.

3. Is there standing water in the Christy box?	Yes <input checked="" type="radio"/> No	_____
--	---	-------

If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted

4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input checked="" type="radio"/> No	_____ _____ _____
--	---	-------------------------

If yes to any of the above, note date, actions taken, and type of repairs when made.

Supervisor's Signature  Date 11-24-15

Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 12/2/2015 Inspector MARK KRALUIS Building Number 806B

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No <u>No</u>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No <u>No</u>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No <u>No</u>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No <u>No</u>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____ _____		

Supervisor's Signature Robert Barts Date 12/2/15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

[Handwritten Signature] 12-5-15

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

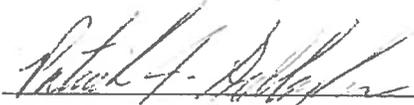
Date 12.15.15 Inspector SPENCER VARTANIAN Building Number 827A CT

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes/No	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes/No	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes/No	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes/No	_____
If yes to any of the above, note date, actions taken, and type of repairs when made.		

Supervisor's Signature  Date 12.15.15

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Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 12-15-15 Inspector SPENCER VARTANIAN Building Number 827C

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature *Patrick J. Kelly* Date 12-15-15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 12-15-15 Inspector SPENCER VARTANIAN Building Number 827D

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature  Date 12-15-15

Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.

Monthly/Weekly Mechanical Equipment Percolation Pit Inspection Checklist*
For Buildings 827A, 827C, 827D, 827E and 806A
Waste Discharge Requirements Order Number R5-2008-0148
Monitoring and Reporting Program Order No. R5-2008-0148, Revision 1

Date 12-15-15 Inspector SPENCER VARTANIAN Building Number 827E

Instructions: Circle the appropriate response for each item below, and record the date and time. Provide descriptions and comments if necessary. Attach additional paper if extra space is needed.

This record is to be maintained by the Inspecting Organization for a minimum of 5 years and made available by request of EPD or regulatory personnel.

Send a completed copy to the attention of Allen Grayson, WAMA (L-627), Environmental Functional Area.

<u>Check Items</u>	<u>Response</u>	<u>Description and Comments:</u>
1. Is water flowing from the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
2. Are there any signs of recent overflow (damp dirt around Christy box)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated to either 1 or 2, contact the ES&H Team EA or off hours contact the EDO (pager 04097 or 27595) immediately to arrange for reporting to the regulatory agency and sample collection.		
3. Is there standing water in the Christy box?	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____
If yes is indicated in 3, note depth and increase inspection frequency to weekly until no water is noted		
4. Are there any other indications that the percolation pit requires maintenance (e.g., excessive build up scale, accumulation of dirt or debris).	Yes <input type="radio"/> No <input checked="" type="radio"/>	_____ _____ _____
If yes to any of the above, note date, actions taken, and type of repairs when made.		
_____ _____		

Supervisor's Signature Date 12-15-15

* Note: This form may be modified or used as is for documenting the routine inspections of the percolation pits permitted under Monitoring and Reporting Program Order Number R5-2008-0148, Revision 1. If standing water is observed in the monthly inspection, increase inspection frequency to weekly until no standing water is observed.



**Environmental Functional Area, Lawrence Livermore National Laboratory
P.O. Box 808, L-627, Livermore, California 94551**